



IN THE NAME OF GOD
Curriculum Vitae (CV)

I) PERSONAL INFORMATION

Name: **SEYED HAMIDREZA SADEGHI**

Date of birth: **03-09-1968**

Place of Birth: **KHANSAR, ESFAHAN Province, IRAN**

Marital stage: **MARRIED (Having two children)**

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Google Scholar: **<https://scholar.google.com/citations?user=3Wr5Yy4AAAAJ&hl=en>**

Research gate: **https://www.researchgate.net/profile/Seyed_Hamidreza_Sadeghi**

Scopus: **<https://www.scopus.com/authid/detail.uri?authorId=16833948500>**

WoS: **<https://www.webofscience.com/wos/author/record/W-6080-2018>**

II) EDUCATIONAL RECORDS

<u>Degree</u>	<u>Institute</u>	<u>Field</u>	<u>Date</u>
A.Sc.	University of Guilan, Iran	Natural Resources	1987
B.Sc.	Gorgan University of Agricultural Science and Natural Resources, Iran	Rangeland and Watershed	1989
M.Sc.	Tarbiat Modares, Iran	Watershed Management Engineering	1992
Ph.D.	G.B.Pant University of Agriculture and Technology, India	Soil and Water Conservation Engineering (SG Development)	2000
Post Doc.	Kyoto University, SABO Lab., Japan	Mechanism and processes governing suspended sediment yield in forest watershed	2006

III) EXPERIENCES

-Expert of Watershed Management Engineering, Ministry of Agriculture, Zayandeh Roud Dam Basin during 1986-1988.

-Master Expert of Watershed Management Engineering, Ministry of Jihad-e-Sazandegi during 1991-1994.

-Assistant Professor at Tarbiat Modares University, Tehran, Iran since 1994.

-Head, Departments of Watershed Management Engineering and Rangeland Management since Dec. 2001 until May 2004, Tarbiat Modares University.

- Head, Department of Watershed Management Engineering Tarbiat Modares University, from May 2004 to 18 Jun., 2011.

- Associate Professor at Tarbiat Modares University, Tehran, Iran since 2006.

- Vice Dean, Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University since 2009.

- Dean, Faculties of Natural Resources and Marine Sciences, Tarbiat Modares University since 2010.

- Dean, International Campus of Tarbiat Modares University, Noor from 2010-2014.

-Member of Scientific and International Cooperation Committee of Tarbiat Modares University since Mar. 2011.

-Member of Planning and Evaluation Committee of International cooperation, Tarbiat Modares University since Jun. 2011.

-Full professor at Tarbiat Modares University, Tehran, Iran since Jun. 2011.

-Head, Department of Watershed Management Engineering, Tarbiat Modares University from May 2015 to Oct. 2021.



-Member of the Economic Development Committee of Tarbiat Modares University, from Jan. 2023 to Jan. 2024.

IV) MEMBERSHIP OF SCIENTIFIC SOCIETIES

- 1) Academic staff of Watershed Management Division of Ministry of Jihad-e-Sazandegi, 1995-1997.
- 2) Member of establisher Committee of Watershed Management Association, Iran, 1996.
- 3) Member of National Committee of Soil Erosion and Sediment, Associated with National Committee of Hydrology (UNESCO), since 1994.A
- 4) Life Member of Indian Society of Agricultural Engineers (ISAE) since 1998. LM-8098.
- 5) Member of Iranian Water Resources Association (IR-WRA) since 1992.
- 6) Member of Iranian Soil Science Society since 1995.
- 7) Life Member of World Association of Soil and Water Conservation (WASWC) since 2000.
- 8) Member of International Association of Hydrological Sciences (Membership No. 8791) since 2006.
- 9) Member of International Water Resources Association (Membership No. 8158) since 2007.
- 10) Member of Iranian Water Harvesting System since 2010.
- 11) Member of the Governance Council of the International Center for Integrated Management of Watershed and Bio-Resources in Arid and Semi-Arid Regions (UNESCO) sine June 2024.

V) REFERREE FOR JOURNAL ARTICLE SUBMITTED TO:

- 1) Journal of Natural Resources, University of Tehran, Iran
- 2) Journal of Natural Resources, University of Gorgan, Iran
- 3) Research Journal of Watershed Management, Agricultural Science and Natural Resources University of Sari, Iran
- 4) Journal of Marine Sciences, Tarbiat Modares University, Iran
- 5) Journal of Pazhohesh and Sazandegi, Iran
- 6) Journal of Water Resources Researches, Iran
- 7) Journal of Agricultural Engineering Research, Iran
- 8) Journal of Watershed Management Science and Engineering, Iran
- 9) Journal of Soil and Water Conservation, Iran
- 10) Journal of Watershed Sciences and Engineering, Iran
- 11) Journal of Tillage Research, the Netherlands
- 12) Journal of Agricultural Water Research, the Netherlands
- 13) Journal of Agricultural Science and Technology (JAST), Iran
- 14) Journal of Science and Technology, Mohaghegh Adrebili University, Iran
- 15) Journal of Rangeland Ecology and Management, USA
- 16) Rangeland Journal, Iranian Association of Rangeland Management
- 17) International Journal of Sediment Research, IRTCES, China
- 18) Agricultural Science Journal of Tabriz University, Iran
- 19) Geomorphology
- 20) Scientia Agricola, Brazil
- 21) Journal Agricultural Science and Technology Journal, Ferdowsi University of Mashhad
- 22) Journal of Land Use Policy, Uk
- 23) Journal of Water Research, Shahrekord University
- 24) Journal of Water Science, Azad Eslami University Research Branch, Iran
- 25) International Journal of Physical Sciences, India
- 26) Journal of Hydrologic Engineering, ASCE, USA
- 27) Geoderma, the Netherlands
- 28) Computers and Geosciences, England
- 29) Geographical Studies Journal, Tarbiat Moalem University of Sabzevar
- 30) Hydrology and Earth System Sciences (HESS-European Geoscience Union)
- 31) Research Iranian Journal of Researches on Support and Protection of Forests and Rangelands
- 32) Journal of Soil and Water Conservation, USA
- 33) Journal of Soil Sciences, Canada
- 34) Journal of Archives of Agronomy and Soil Science, England
- 35) Water and Waste Water Journal, Iran
- 36) Journal of Earth System Science, Springer



- 37) Journal of Agricultural Engineering (Agricultural Research Journal), Ahvaz Shahid Chamran University, Iran
- 38) African Journal of Agricultural Research
- 39) Journal of Stratigraphy and Sedimentology, University of Isfahan, Iran
- 40) Journal of Rangeland Science, Islamic Azad University, Borujerd Branch, Iran
- 41) Tehran Geographical Research Journal
- 42) Caspian Journal of Environmental Science, Iran
- 43) Journal of Iran Water and Soil Researches, University of Tehran, Iran
- 44) Water Resources Engineering Journal (Azad University-Marvdasht Branch), Iran
- 45) Iranian Journal of Irrigation and Water Engineering
- 46) Journal of Stochastic Environmental Research and Risk Assessment
- 47) Land Degradation and Development, Springer
- 48) Scientia Iranica, Sharif University of Technology, Iran
- 49) International Journal of Physical Sciences, India
- 50) Journal of Agricultural Extension and Rural Development, India
- 51) Environmental Management, Springer
- 52) Environmental Erosion Researches Journal, Hormozgan University, Iran
- 53) International Journal of Environmental Resources Research, Gorgan University, Iran
- 54) International Journal of Water Resources and Environmental Engineering, Academic Journals
- 55) Hydrological Processes, Springer
- 56) Water and Soil Resources Conservation Journal, Azad University, Researches and Science Branch
- 57) Journal of Natural Resources and Sustainable Development, Malayer University
- 58) Catena, Elsevier
- 59) Earth Surface Processes and Landforms, Springer
- 60) GeoJournal, Springer
- 61) Iranian Journal of Applied Ecology, University of Tehran
- 62) Lakes and Reservoirs: Research and Management, Wiley
- 63) African Journal of Earth Science, Elsevier
- 64) Agricultural Research Journal, Shiraz University
- 65) Irrigation and Drainage Journal
- 66) Physical Geography Research Quarterly, Institute of Geography, University of Tehran, Iran
- 67) Desert Ecosystems Engineering Journal, Kashan University. Iran
- 68) Biomass and Bioenergy, Elsevier
- 69) Journal of Environmental Engineering and Science, Institution of Civil Engineers, Canada
- 70) Journal of the Saudi Society of Agricultural Sciences
- 71) Journal of Water Resource and Protection, China
- 72) Environmental Monitoring and Assessment, Springer
- 73) International Journal of Agricultural Policy and Research
- 74) Journal of Hydro-Environment Research, Elsevier
- 75) American Soil Science Society Journal
- 76) Heliyon, Elsevier
- 77) European Journal of Forest Research
- 78) Journal of Soils and Sediments, Springer
- 79) Iranian Journal of Degradation and Rehabilitation of Natural Land
- 80) Canadian Journal of Soil Science
- 81) Indian Journal of Science and Technology
- 82) Advances in Science, Technology and Engineering Systems Journal, United States
- 83) Journal of Applied Polymer Science, John Wiley
- 84) CLEAN - Soil, Air, Water
- 85) Journal of South American Earth Sciences
- 86) Water Research, Elsevier
- 87) Pedosphere, Elsevier
- 88) Journal of Hydro-environment Research, Elsevier
- 89) Acta Geophysica, Springer



- 90) Soil Use and Management, John Wiley
- 91) Frontiers in Environmental Science, Springer
- 92) Environmental Science and Pollution Research, Springer
- 93) Geography, Environment, Sustainability Journal, Lomonosov Moscow State University
- 94) Science of the Total Environment, Elsevier
- 95) Ecological Indicators, Elsevier
- 96) Scientific African, Elsevier
- 97) Watershed Ecology and the Environment, Elsevier
- 98) Agronomy Journal, Springer
- 99) Ecohydrology & Hydrobiology, Elsevier
- 100) International Journal of Environmental Science and Technology, Springer
- 101) Flow Measurement and Instrumentation, Elsevier
- 102) Water and Soil Management and Modeling, Mohaghegh Ardabili University
- 103) Water, MDPI
- 104) Journal of Advanced Research in Applied Sciences and Engineering Technology, Semarak Ilmu Publishing, Malaysia
- 105) Physics and Chemistry of the Earth, Elsevier
- 106) Urban Water Journal, Springer
- 107) International Journal of Disaster Risk Reduction, Elsevier

VI) RESEARCH INTERESTS:

- 1) Soil Erosion and Sediment Yield Modeling
- 2) Soil and Water Conservation
- 3) Watershed Management

VII) RESEARCH PUBLICATIONS:

- Indexed Papers (ISI, Scopus, English Journals)

- 1) Erfanzadeh, R. and **Sadeghi, S.H.R., 2003.** Study on forage quality of some legumes in different phenological stages in Iran, African Journal of Range and Forage Sciences, 20(2):1750. (Q2)
- 2) **Sadeghi, S.H.R.,** Singh, J.K. and Das, G., 2004. Efficacy of annual soil erosion models for storm-wise sediment prediction: A case study, International Agricultural Engineering Journal, Thailand, 13(1 and 2): 1-14. (Q4)
- 3) **Sadeghi, S.H.R.,** Singh, J.K. and Mahdavi, M., 2004. Feasibility evaluation of computer model SEDIMOT II in flood estimation for Amameh Watershed in Iran, Indian Journal of Soil Conservation, 32(2): 95-99.
- 4) **Sadeghi, S.H.R.** and Jalali Rad, R., 2004. Floodplain zoning in an Iranian urban watershed using HEC-RAS hydraulic model and ArcView GIS, Hydrology Journal of Indian Associations of Hydrologists, 27(1-2):69-77.
- 5) **Sadeghi, S.H.R.** and Mahdavi, M., 2004. Applicability of SEDIMOT II model in flood and sediment yield estimation, Journal of Agricultural Sciences and Technology (JAST), 6(3and4):147-154. (Q3)
- 6) **Sadeghi, S.H.R.** and Singh, J.K., 2005. Development of synthetic sediment graph using hydrological data, Journal of Agricultural Sciences and Technology (JAST), 7(1and2):69-77. (Q3)
- 7) **Sadeghi, S.H.R.,** 2005. A semi-detailed technique for soil erosion mapping based on BLM and satellite image applications, Journal of Agricultural Sciences and Technology (JAST), 7(3and4):133-142. (Q3)
- 8) **Sadeghi, S.H.R.,** Fattahi, B., Safaeian, N.A. and Erfanzadeh, R., 2005. Effects of grazing on some of soil physico-chemical characteristics in Lar Region National Park, Iran, Hydrology Journal of Indian Associations of Hydrologists, 28(1-2):79-88.
- 9) Behzadfar, M., Moradi, H.R. and **Sadeghi, S.H.R.,** 2005. Modeling rainfall erosivity factor at storm scale: A case study in Khuzestan Province, Iran, The Journal of Humanities of the Islamic Republic of Iran, 12(3):41-50.
- 10) **Sadeghi, S.H.R.** and Mizuyama, T., 2006. Commentary paper on application of the USLE and sediment delivery models in a mountainous catchment, Journal of Japan Society of Erosion Control Engineering, 59(4):58-59. (Q3)



- 11) **Sadeghi, S.H.R.**, Mizuyama, T. and Ghaderi Vangah, B., 2007. Conformity of MUSLE estimates and erosion plot data for storm-wise sediment yield estimation, *Journal of Terrestrial, Atmospheric and Oceanic Sciences*, 18(1):117-128. (Q4)
- 12) **Sadeghi, S.H.R.**, Mizuyama, T., Miyata, S., Gomi, T., Kosugi, K., Mizugaki, S. and Onda, Y., 2007. Is MUSLE apt to small steeply reforested watershed? *Journal of Forest Research*, 12: 270-277. (Q3)
- 13) **Sadeghi, S.H.R.** and Mizuyama, T., 2007. Applicability of modified universal soil loss equation for prediction of sediment yield in Khanmirza watershed, Iran, *Hydrological Science Journal (IAHS)*, 52(5):1068-1075. Doi.org/1623/hysj.52.5.1068. (Q2)
- 14) **Sadeghi, S.H.R.** and Rahimzadeh Halagh, N., 2007. Comparison of wheatgrass (*A. intermedium*) and tall wheatgrass (*A. elongatum*) in transpiration viewpoint, *Caspian Journal of Environmental Science*, 5:41-44.
- 15) **Sadeghi, S.H.R.**, Ghaderi Vangah, B. and Safaeian, N.A., 2007. Comparison between effects of open grazing and manual harvesting of cultivated summer rangelands of Northern Iran on Infiltration, Runoff and Sediment Yield, *Land Degradation and Development*, 18: 608–620. (Q2)
- 16) **Sadeghi, S.H.R.**, Azari, M. and Ghaderi Vangah B., 2008, Field evaluation of the hillslope erosion model (HEM) in Iran, *Biosystems Engineering*, 99(2): 304-311. (Q1)
- 17) **Sadeghi, S.H.R.**, Mizuyama, T., Miyata, S., Gomi, T., Kosugi, K., Fukushima, T., Mizugaki, S. and Onda, Y., 2008. Determinant factors of sediment graphs and rating loops in a reforested watershed, *Journal of Hydrology*, 356:271-282. (Q1)
- 18) Vaezi, A.R., **Sadeghi, S.H.R.**, Bahrami, H.A. and Mahdian M.H., 2008, Modeling the USLE K-factor for calcareous soils in northwestern Iran, *Geomorphology*, 97(3-4):414-423. (Q1)
- 19) **Sadeghi, S.H.R.**, Mizuyama, T., Miyata, S., Gomi, T., Kosugi, K., Mizugaki, S. and Onda, Y., 2008. Development, evaluation and interpretation of sediment rating curves for a Japanese Small Mountainous Reforested Watershed, *Geoderma*, 144(1-2): 198-211. (Q1)
- 20) Najafi, A., Solgi, A. and **Sadeghi, S.H.R.** 2009. Soil disturbance following four wheel rubber skidder logging on the steep trail in the north mountainous forest of Iran, *Soil and Tillage Research*, 103:165-169. (Q1)
- 21) **Sadeghi, S.H.R.**, Mizuyama, T., Singh, J.K. and Tofighi, B., 2009. Applicability of instantaneous unit sediment graph model in an Iranian Large Watershed, *International Journal of Ecological Economics and Statistics, USA*, 13(W09):30-45. (Q4)
- 22) **Sadeghi, S.H.R.**, Jalili, Kh. and Nikkami. D., 2009. Land use optimization in watershed scale, *Land Use Policy*, 26: 186-193. (Q1)
- 23) **Sadeghi, S.H.R.**, 2009. Interactive comment on "Analyzing the relationship between peak runoff discharge and land-use pattern – a spatial optimization approach", *Hydrology and Earth System Sciences Discussions*, 6: 565C-566C. (Q3)
- 24) **Sadeghi, S.H.R.**, Hajjigholizadeh, M., Vafakhah, M. and Singh. J.K., 2009. Effects of hydraulic structures on changing flood zones in Kan River, Iran, *Journal of Soil and Water Conservation*, 8(1): 1-8. (Q2)
- 25) **Sadeghi, S.H.R.** and Tofighi, B., 2010. Suspended sediment flux in watershed: A case study, *International Journal of Ecology and Development*, 17(f10): 56-65.
- 26) Vaezi, A.R., **Sadeghi, S.H.R.**, Bahrami, H.A. and Mahdian M.H., 2010. Spatial variability of soil erodibility factor (K) of the USLE in North West of Iran, *Journal of Agricultural Sciences and Technology (JAST)*, 12: 241-252. (Q3)
- 27) Vaezi, A.R., **Sadeghi, S.H.R.**, Bahrami, H.A. and Mahdian M.H., 2010. Modeling relationship between runoff and soil properties in dry-farming lands, NW Iran, *Hydrology and Earth System Sciences Discussions*, 7: 2577-2607. (Q3)
- 28) Khaledi Darvishan A., **Sadeghi, S.H.R.** and Gholami L. 2010. Efficacy of time-area method in simulating temporal variation of sediment yield in Chehelgazi watershed, Iran, *Annals of Warsaw University of Life Sciences-SGGW, Land Reclamation*, 42(1):51-60.
- 29) Aghkakli, B.M., Najafi, A. and **Sadeghi, S.H.R.**, 2010. Ground based operation effects on soil disturbance by steel tracked skidder in a steep slope of forest, *Journal of Forest Science*, 56(6):1-9. (Q2)



- 30) **Sadeghi, S.H.R.** and Saeidi, P., 2010. Reliability of sediment rating curves for a deciduous forest watershed in Iran, *Hydrological Sciences Journal*, 55(5):821-831. Doi.org/10.1080/02626667.2010.489797. (Q2)
- 31) **Sadeghi, S.H.R.** and Singh, J.K., 2010. Derivation of flood hydrographs for un-gauged upstream sub-watersheds using main outlet hydrograph. *Journal of Hydrologic Engineering, ASCE*, 15(12):1059-1069. Doi.org/10.1061/(ASCE)HE.1943-5584.0000275. (Q3)
- 32) Moradi, H.R., Fazelpor, M.R. and **Sadeghi, S.H.R.**, 2011. Assessing land use changes in Ardakan Area using remote sensing. *Journal of Geography and Regional Planning*, 4(2): 77-86.
- 33) **Sadeghi, S.H.R.**, Moatamednia, M. and Behzadfar, M., 2011. Spatial and temporal variations in the rainfall erosivity factor in Iran, *Journal of Agricultural Sciences and Technology (JAST)*, 13 (3): 451-464. (Q3)
- 34) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.**, and Mahdian M.H., 2011. Developing a nomograph for estimating erodibility factor of calcareous soils in North West Iran, *International Journal of Geology*, 4(5):93-100.
- 35) Vaezi, A.R. and **Sadeghi, S.H.R.**, 2011. Evaluating the RUSLE model and developing an empirical equation for estimating soil erodibility factor in a semi-arid region, *Spanish Journal of Agricultural Research*, 9(3):912-923. Doi.org/10.5424/sjar/20110903-229-10. (Q3)
- 36) **Sadeghi, S.H.R.**, Kiani Harchegani, M. and Younesi, H.A., 2012. Suspended sediment concentration and particle size distribution and their relationship with heavy metals contents, *Journal of Earth System Science*, 121(1):63-71. Doi.org/10.1007/s12040-012-0143-4. (Q3)
- 37) **Sadeghi, S.H.R.**, Moosavi, V., Karami, A. and Behnia, N., 2012. Soil erosion assessment and prioritization of affecting factors at plot scale using the Taguchi Method, *Journal of Hydrology*, 448-449: 174-180. Doi.org/10.1016/j.jhydrol.2012.04.038. (Q1)
- 38) Sadeghi, S.H., Mousavi, S.F., **Sadeghi, S.H.R.** and Abdolali, M., 2012. Factor H for the calculation of head loss and sizing of dual-diameter lateral. *Journal of Agricultural Sciences and Technology (JAST)*, 14: 1555-1565. (Q3)
- 39) **Sadeghi, S.H.R.** and Kiani Harchegani, M., 2012. Effects of sand mining on suspended sediment particle size distribution in Kojour Forest River, Iran. *Journal of Agricultural Sciences and Technology (JAST)*, 14: 1637-1646. Doi.org/20.1001.1.16807073.2012.14.7.4.6. (Q3)
- 40) Gholami, L., **Sadeghi, S.H.R.** and Homaei, M., 2012. Straw mulching effect on splash erosion, runoff and sediment yield from eroded plots in different rainfall intensities, *Soil Science Society of America Journal*, 77: 268-278. Doi.org/10.2136/sssaj2012.0271. (Q3)
- 41) **Sadeghi, S.H.R.**, Bashari Seghaleh, M. and Rangavar, A.S., 2013. Plot sizes dependency of runoff and sediment yield estimates from a small watershed, *Catena*, 102:55-61. Doi.org/10.1016/j.catena.2011.01.003. (Q1)
- 42) **Sadeghi, S.H.R.**, Gholami, L. and Khaledi Darvishan. A.V., 2013. Suitability of MUSLT in storm-wise sediment yield prediction in Chehelgazi Watershed, Iran, *Hydrological Sciences Journal*, 58(4):1-6. Doi.org/10.1080/02626667.2013.782406. (Q2)
- 43) Golrang, B.M., Lai, F.S., **Sadeghi, S.H.R.**, Kamurudin, M.N., Kudus, K.A., Mashayekhi, M. and Bagherian, R., 2013. Assessment of watershed management implemented on spring peak flood discharge and flood volume, using HEC-HMS model (Case study: Kushk Abad sub-basin in Iran). *Science and Nature*, 2(2):59-64.
- 44) Golrang, B.M., Lai, F.S., Rostami, M., Kamurudin, M.N., Kudus, K.A., **Sadeghi, S.H.R.** and Mashayekhi, M., 2013. The relationship between level of watershed projects success and level of people participation, *World of Sciences Journal*, 1(3): 1-9. (Q3)
- 45) Vahidi, M.J., Jafarzadeh, A.A., Fakhrifard, A., **Sadeghi, S.H.R.**, Rezaei-Moghaddam, M.H., Sofia, G. and Tarolli, A., 2013. Digital change detection using remotely sensed data for monitoring land use/land cover in Hervi Watershed, Iran. *International Journal of Agriculture: Research and Review*, 3(2):423-440.
- 46) **Sadeghi, S.H.R.**, Abdollahi, Z. and Khaledi Darvishan. A.V., 2013. Experimental comparison of some techniques for estimating natural rain drop size distribution in south coast of the Caspian Sea, Iran. *Hydrological Sciences Journal*, 58(6):1-9. Doi.org/10.1080/02626667.2013.814917. (Q2)



- 47) **Sadeghi, S.H.R.**, Gholami, L., Khaledi Darvishan, A.V. and Saeidi, P., 2013. A review of the application of the MUSLE model worldwide. *Hydrological Science Journal*, 59(2):1-11. Doi.org/10.1080/02626667.2013.866239. (Q2)
- 48) Khaledi Darvishan, A.V., **Sadeghi, S.H.R.**, Homaei, M. and Arabkhedri M., 2014. Measuring sheet erosion using synthetic color-contrast aggregates. *Hydrological Processes*, 28: 4463–4471. Doi.org/10.1002/hyp.9956. (Q2)
- 49) **Sadeghi, S.H.R.**, Najafi, S., Riyhi Bakhtiari, A.R. and Abdi, P., 2014. Ascribing soil erosion types for sediment yield using composite fingerprinting technique. *Hydrological Science Journal*, 59:9, 1753-1762. Doi.org/10.1080/02626667.2014.940955. (Q2)
- 50) Agherkakli, B.M., Najafi, A., **Sadeghi, S.H.R.** and Zenner, E., 2014. Mitigating effects of slash on soil disturbance in ground-based skidding operations, *Scandinavian Journal of Forest Research*, 29(4): 1-7. Doi.org/10.1080/02827581.2014.919351. (Q3)
- 51) Gholami, L., Banasik, K., **Sadeghi, S.H.R.**, Khaledi Darvishan, A.V. and Hejduk, L., 2014. Effectiveness of straw mulch on infiltration, splash erosion, runoff and sediment in laboratory conditions, *Journal of Water and Land Development*, 22(VII-IX); 51-60. Doi.org/10.2478/jwld-2014-0022. (Q2)
- 52) Solgi, A., Najafi, A. and **Sadeghi, S.H.R.**, 2014. Effects of traffic frequency and skid trail slope on surface runoff and sediment yield, *International Journal of Forest Engineering*, 25(2): 171-178. Doi.org/10.1080/14942119.2014.955699.
- 53) **Sadeghi, S.H.R.**, Gholami, L., Sharifi Moghadam, E. and Khaledi Darvishan, A.V., 2015. Scale effect on runoff and soil loss control using rice straw mulch under laboratory conditions, *Solid Earth*, 6:1-8. Doi.org/10.5194/se-6-1-2015. (Q2)
- 54) **Sadeghi, S.H.R.** and Hazbavi, Z., 2015. Trend analysis of the rainfall erosivity index at different time scales in Iran, *Natural Hazards*, 77: 383-404. Doi.org/10.1007/s11069-015-1607-z. (Q2)
- 55) **Sadeghi, S.H.R.** and Tavangar, Sh., 2015. Development of stational models for estimation of rainfall erosivity factor in different timescales, *Natural Hazards*, 77:429-443. Doi.org/10.1007/s11069-015-1608-y. (Q2)
- 56) **Sadeghi, S.H.R.**, Gholami, L., Homaei, M. and Khaledi Darvishan, A.V., 2015. Reducing sediment concentration and soil loss using organic and inorganic amendments at plot scale, *Solid Earth*, 6: 445–455. Doi.org/10.5194/se-6-445-2015. (Q2)
- 57) Khaledi Darvishan, A., Banasik, K., **Sadeghi, S.H.R.**, Gholami, L. and Hejduk, L., 2015. Effects of rain intensity and initial soil moisture on hydrological responses in laboratory conditions, *International Agrophysics*, 29: 165-173. Doi: 10.1515/intag-2015-0020. (Q2)
- 58) **Sadeghi, S.H.R.**, Mostafazadeh, R. and Sadoddin, A., 2015. Changeability of simulated hydrograph from a steep watershed resulted from applying Clark's IUH and different time–area histograms, *Environmental Earth Sciences*, 74: 3629-3643. Doi.org/10.1007/s12665-015-4426-3. (Q2)
- 59) **Sadeghi, S.H.R.** and Zakeri, M.A., 2015. Partitioning and analyzing temporal variability of wash and bed material loads in a forest watershed in Iran, *Journal of Earth System Science*, 124 (7):1503-1515. Doi.org/10.1007/s12040-015-0614-5.(Q3)
- 60) **Sadeghi, S.H.R.** and Kheirfam, H., 2015. Temporal variation of bed load to suspended load ratio in Kojour River, Iran. *Clean*, 43(10): 1357-1374. Doi.org/10.1002/clen.201400490. (Q3)
- 61) Mohammadi Golrang, B., **Sadeghi, S.H.R.** and Vahedi, A., 2015. Farmers' attitude toward the Soil conservation practices in the Kushk-Abad Catchment Basins in the Province of Khorasan Razavi, Iran, *International Journal of Agricultural Science, Research and Technology in Extension and Education Systems*, 5(2): 71-82.
- 62) **Sadeghi, S.H.R.**, Hazbavi, Z. and Kiani Harchegani, M., 2016. Controllability of runoff and soil loss from small plots treated by biochar produced from vinasse. *Science of the Total Environment*, 541: 483-490. Doi.org/10.1016/j.scitotenv.2015.09.068. (Q1)
- 63) **Sadeghi, S.H.R.**, Sharifi Moghadam, E. and Khaledi Darvishan, A.V., 2016. Effects of subsequent rainfall events on runoff and soil erosion components from small plots treated by vinasse, *Catena*, 138:1-12. Doi.org/10.1016/j.catena.2015.11.007. (Q1)
- 64) Gholami, L., **Sadeghi, S.H.R.** and Homaei, M., 2016. Different effects of sheep manure conditioner on runoff and soil loss components in eroded soil, *Catena*, 139:99-104. Doi.org/10.1016/j.catena.2015.12.011. (Q1)



- 65) Hazbavi, Z. and **Sadeghi, S.H.R.**, 2016. Potential effects of vinasse as a soil amendment to control runoff and soil loss, *Soil*, 2:71-78. Doi.org/10.5194/soil-2-71-2016. (Q1)
- 66) **Sadeghi, S.H.R.**, Hazbavi, Z., Younesi, H.A. and Bahramifar, N., 2016. Trade-off between runoff and sediments from treated erosion plots and polyacrylamide and acrylamide residues, *Catena*, 142: 213-220. Doi.org/10.1016/j.catena.2016.03.013. (Q1)
- 67) Davudirad, A.A., **Sadeghi, S.H.R.** and Sadoddin, A., 2016. The impact of development plans on hydrological changes in the Shazand Watershed, Iran, *Land Degradation and Development*, 27 (4): 1236-1244. Doi.org/10.1002/ldr.2523. (Q2)
- 68) **Sadeghi, S.H.R.** and Mostafazadeh, R., 2016. Triple diagram models for changeability evaluation of precipitation and flow discharge for suspended sediment load in different time scales, *Environmental Earth Sciences*, 75: 843-855. Doi.org/10.1007/s12665-016-5621-6. (Q2)
- 69) Khaledi Darvishan, A.V., Homayoonfar, V. and **Sadeghi, S.H.R.**, 2016. The impact of standard preparation practice on the runoff and soil erosion rates under laboratory conditions. *Solid Earth*, 7: 1293-1302. Doi.org/10.5194/se-7-1293-2016. (Q2)
- 70) Adhami, M., and **Sadeghi, S.H.R.**, 2016. Sub-watershed prioritization based on sediment yield using game theory. *Journal of Hydrology*, 541: 977-987. Doi.org/10.1016/j.jhydrol.2016.08.008 (Q1)
- 71) Kheirfam, H., **Sadeghi, S.H.R.**, Homae, M. and Zarei Darki, B., 2017. Quality improvement of an erosion-prone soil through microbial enrichment, *Soil and Tillage Research*, 165: 230-238. Doi.org/10.1016/j.still.2016.08.021. (Q1)
- 72) **Sadeghi, S.H.R.**, Kiani Harchegani, M. and Asadi, H., 2017. Variability of particle size distributions of upward/downward splashed materials in different rainfall intensities and slopes. *Geoderma*, 290: 100-108. Doi.org/10.1016/j.geoderma.2016.12.007. (Q1)
- 73) Kheirfam, H., **Sadeghi, S.H.R.**, Zarei Darki, B. and Homae, M., 2017. Controlling rainfall-induced soil loss from small experimental plots through inoculation of bacteria and cyanobacteria. *Catena*, 152: 40-46. Doi.org/10.1016/j.catena.2017.01.006. (Q1)
- 74) **Sadeghi, S.H.R.**, Zabihi, M., Vafakhah, M. and Hazbavi, Z., 2017. Spatiotemporal mapping of rainfall erosivity index for different return periods in Iran. *Natural Hazards*, 87(1): 35-56. Doi.org/10.1007/s11069-017-2752-3. (Q2)
- 75) Abdollahi Z., Kaviani A. and **Sadeghi, S.H.R.**, 2017. Spatio-temporal changes of water quality variables in a highly disturbed river. *Global Journal of Environmental Science and Management*, 3(3): 243-256. Doi.org/10.22034/gjesm.2017.03.03.00. (Q4)
- 76) Kheirfam, H. and **Sadeghi, S.H.R.**, 2017. Variability of bed load components in different hydrological conditions. *Journal of Hydrology: Regional Studies*, 10: 145-156, Doi.org/10.1016/j.ejrh.2017.03.002. (Q1)
- 77) **Sadeghi, S.H.R.** and Hazbavi, Z., 2017. Spatiotemporal variation of watershed health propensity through reliability-resilience-vulnerability based drought index (case study: Shazand Watershed in Iran). *Science of the Total Environment* 587-588: 168-176. Doi.org/10.1016/j.scitotenv.2017.02.098. (Q1)
- 78) Lin, Q., Wua, Z., Singh, V.P., **Sadeghi, S.H.R.**, He, H. and Lu, G., 2017. Correlation between hydrological drought, climatic factors, reservoir operation, and vegetation cover in the Xijiang Basin, South China. *Journal of Hydrology*, 549: 512-524. Doi.org/10.1016/j.jhydrol.2017.04.020. (Q1)
- 79) **Sadeghi, S.H.R.** Ebrahimi Mohammadi, Sh., Singh, V.P. and Chapi, K., 2017. Non-point source contribution and dynamics of soluble and particulate phosphorus from main tributaries of the Zarivar Lake Watershed, Iran. *Environmental Monitoring and Assessment*. 189:238:1-13. Doi.org/10.1007/s10661-017-5937-z. (Q3)
- 80) **Sadeghi, S.H.R.**, Kheirfam, H., Homae, M., Zarei Darki, B. and Vafakhah, M., 2017. Improving runoff behavior resulting from direct inoculation of soil microorganisms. *Soil and Tillage Research*, 171: 35-41. Doi.org/10.1016/j.still.2017.04.007. (Q1)
- 81) Behzadfar, M., **Sadeghi, S.H.R.**, Khanjani, M.J. and Hazbavi, Z., 2017. Effects of rates and time of zeolite application on controlling runoff generation and soil loss from a soil subjected to a freeze-thaw cycle, *International Soil and Water Conservation Research*, 5:95-101. Doi.org/10.1016/j.iswcr.2017.04.002. (Q1)
- 82) Panagos, P., Borrelli, P., Meusburger, K., Yu, B., Klik, A., Lim, K.J., Yang, J.E., Ni, J., Miao, C., Chattopadhyay, N., **Sadeghi, S.H.R.**, Hazbavi, Z., Zabihi, M., Larionov, G.A., Krasnov, S.F.,



- Gorobets, A.V., Levi, Y., Erpul, G., Birkel, C., Hoyos, N., Naipal, V., Oliveira, P.T.S., Bonilla, C.A., Meddi, M., Nel, W., Al Dashti, H., Boni, M., Diodato, N., Van Oost, K., Nearing, M. and Ballabio, C., 2017. Global rainfall erosivity assessment based on high-temporal resolution rainfall records, *Nature Scientific Reports*, 7: 4175. Doi.org/10.1038/s41598-017-04282-8. (Q1)
- 83) **Sadeghi, S.H.R.**, Najafi, S. and Riyahi Bahtiar A.R., 2017. Sediment contribution from different geologic formations and land uses in an Iranian small watershed, case study. *International Journal of Sediment Research*, 32: 210-220. Doi.org/10.1016/j.ijsrc.2017.02.002. (Q2)
- 84) Hazbavi, Z. and **Sadeghi, S.H.R.**, 2017. Watershed health characterization using reliability-resilience-vulnerability conceptual framework based on hydrological responses, *Land Degradation and Development*. 28: 1528-1537. Doi.org/10.1002/ldr.2680. (Q2)
- 85) **Sadeghi, S.H.R.**, 2017. Soil erosion in Iran: State of the art, tendency and solutions, *Agriculture and Forestry*, 63(3):33-37. (Q3)
- 86) **Sadeghi, S.H.R.** and Singh, V.P., 2017. Dynamics of suspended sediment concentration, flow discharge and sediment particle size interdependency to identify sediment source, *Journal of Hydrology*, 554: 100-110. Doi.org/10.1016/j.jhydrol.2017.09.006. (Q1)
- 87) Yousefi, S., **Sadeghi, S.H.R.**, Mirzaee, S., Van der Ploeg, M., Keesstra, S. and Cerdà, A., 2018. Spatio-temporal variation of throughfall in a hyrcanian plain forest stand in Northern Iran, *Journal of Hydrology and Hydromechanics*, 66(1): 97-106. Doi.org/10.1515/johh-2017-0034. (Q4)
- 88) Yaghmaei, H., **Sadeghi, S.H.R.**, Moradi, H.R. and Gholamalifard, M., 2018. Effect of dam operation on monthly and annual trends of flow discharge in the Qom Rood Watershed, Iran, *Journal of Hydrology*, 557: 254-264. Doi.org/10.1016/j.jhydrol.2017.12.039. (Q1)
- 89) Adhami, M. **Sadeghi, S.H.R.** and Sheikhmohammady, M., 2018. Making competent land use policy using a co-management framework, *Land Use Policy* 72: 171–180. Doi.org/10.1016/j.landusepol.2017.12.035. (Q1)
- 90) Hazbavi, Z., Baartman, J.E.M., Nunes, J.P., Keesstra, S.D. and **Sadeghi, S.H.R.**, 2018. Changeability of reliability, resilience and vulnerability indicators with respect to drought patterns, *Ecological Indicators*, 87: 196–208. Doi.org/10.1016/j.ecolind.2017.12.054. (Q1)
- 91) Kiani-Harchegani, M., **Sadeghi, S.H.R.** and Asadi, H., 2018. Comparing grain size distribution of sediment and original soil under raindrop detachment and raindrop-induced and flow transport mechanism. *Hydrological Sciences Journal*, 63(2): 312-323. Doi.org/10.1080/02626667.2017.1414218. (Q2)
- 92) Mohammadi, S., Homaeae, M. and **Sadeghi, S.H.R.**, 2018. Runoff and sediment behavior from soil plots contaminated with kerosene and gasoil, *Soil and Tillage Research*, 182:1-9, Doi.org/10.1016/j.still.2018.04.015. (Q1)
- 93) **Sadeghi, S.H.R.**, Singh, V.P., Kiani-Harchegani, M., and Asadi, H., 2018. Analysis of sediment rating loops and particle size distributions to characterize sediment source at mid-sized plot scale, *Catena*, 167: 221-227. Doi.org/10.1016/j.catena.2018.05.002. (Q1)
- 94) Hazbavi, Z., Keesstra, S.D., Nunes, J.P., Baartman, J.E.M., Gholamalifard, M. and **Sadeghi, S.H.R.**, 2018. Health comparative comprehensive assessment of watersheds with different climates, *Ecological Indicators*, 93: 781–790. Doi.org/10.1016/j.ecolind.2018.05.078. (Q1)
- 95) Rahmati, M., Weihermüller, L., Vanderborght, J., Pachepsky, Y.A., Mao, L., **Sadeghi, S.H.R.** and more 123 Co-Authors, 2018. Development and analysis of the soil water infiltration global database, *Earth System Science Data*, 10:1237–1263. Doi.org/10.5194/essd-10-1237-2018. (Q1)
- 96) **Sadeghi, S.H.R.**, Ghavimi Panah, M.H., Younesi, H.A. and Kheirfam, H., 2018. Ameliorating some quality properties of an erosion-prone soil using biochar produced from dairy wastewater sludge, *Catena*, 171: 193-198. Doi.org/10.1016/j.catena.2018.07.018. (Q1)
- 97) Vafakhah, M., Fakher Nikche, A. and **Sadeghi, S.H.R.**, 2018. Comparative effectiveness of different infiltration models in estimation of watershed flood hydrograph, *Paddy and Water Environment*, 16 (3):411–424. Doi.org/10.1007/s10333-018-0635-1. (Q2)
- 98) **Sadeghi, S.H.R.**, Raeisi, M.B. and Hazbavi, Z., 2018. Influence of freeze-only and freezing-thawing cycles on splash erosion, *International Soil and Water Conservation Research*, 6: 275-279. Doi.org/10.1016/j.iswcr.2018.07.004. (Q1)
- 99) **Sadeghi, S.H.R.**, Gharemahmudli, S., Kheirfam, H., Khaledi Darvishan, A.V., Kiani-Harchegani, M., Saeidi, P., Gholami, L. and Vafakhah, M., 2018. Effects of type, level and time of sand and



- gravel mining on particle size distributions of suspended sediment. *International Soil and Water Conservation Research*, 6(2), 184-193. Doi.org/10.1016/j.iswcr.2018.01.005. (Q1)
- 100) **Sadeghi, S.H.R.**, Kazemi Kia, S., Hazbavi, Z., Erfanian, M. and Movahhed, S.M.S., 2018. A blueprint for elementary representative watershed specification, land cover based watershed health assessment, *AGROFOR International Journal*, 3(2): 129-135.
- 101) Vafakhah, M., Karamizad, F. and **Sadeghi, S.H.R.**, 2018. Spatial variations of runoff generation at watershed scale, *International Journal of Environmental Science and Technology*. Doi.org/10.1007/s13762-018-1784-x. (Q1)
- 102) **Sadeghi, S.H.R.**, Hazbavi, Z. and Gholamalifard, M., 2019. Interactive impacts of climatic, hydrologic and anthropogenic activities on watershed health, *Science of the Total Environment*, 648: 880–893. Doi.org/10.1016/j.scitotenv.2018.08.004. (Q1)
- 103) Alilou, H., Rahmati, O., Singh, Vijay P., Choubin, B., Pradhan, B., Keesstra, S.D., Ghiasi, S.S., and **Sadeghi, S.H.R.**, 2019. Evaluation of watershed health using Fuzzy-ANP approach considering geoenvironmental and topo-hydrological criteria, *Journal of Environmental Management*, 232: 22-36. Doi.org/10.1016/j.jenvman.2018.11.019. (Q1)
- 104) **Sadeghi, S.H.R.**, Kazemi Kia, S., Erfanian, M. and Movahed, SMS., 2019. Identifying representative watershed for the Urmia Lake basin, Iran. *Environmental Monitoring and Assessment*. 191(45): 1-16. Doi.org/10.1007/s10661-018-7147-8. (Q3)
- 105) Kiani-Harchegani, M., **Sadeghi, S.H.R.**, Singh, V.P., Asadi, H. and Abedi, M., 2019. Effect of rainfall intensity and slope on sediment particle size distribution during erosion using Partial Eta Squared, *Catena*, 176: 65-72. Doi.org/10.1016/j.catena.2019.01.006. (Q1)
- 106) **Sadeghi, S.H.R.**, Moradi Dashtpaderdi, M., Moradi Rekabdarkoolai H.R. and Schoorl, J.M., 2019. Accuracy of sedimentgraph modeling from topography map scale and DEM mesh size, *International Soil and Water Conservation Research*, 7: 138-149. Doi.org/10.1016/j.iswcr.2019.01.002. (Q1)
- 107) Moradi Dashtpaderdi, M., **Sadeghi, S.H.R.** and Moradi Rekabdarkoolai H.R., 2019. Changeability of simulated watershed hydrographs from different vector scales and cell sizes. *Catena*, 182, 104097. Doi.org/10.1016/j.catena.2019.104097. (Q1)
- 108) Adhami, M., **Sadeghi, S.H.R.**, Duttmann, R. and Sheikhmohammadi, M., 2019. Changes in watershed hydrological behavior due to land use comanagement scenarios, *Journal of Hydrology*, 577, 124001. Doi.org/10.1016/j.jhydrol.2019.124001. (Q1)
- 109) Abdollahi Z., Kavian A., **Sadeghi, S.H.R.**, DelValls, A., 2019. Identifying environmental risk associated with anthropogenic activities in Zanjanrud River, Iran, using an integrated approach. *Catena*, 183, 104156. Doi.org/10.1016/j.catena.2019.104156. (Q1)
- 110) Zeinali, v., Vafakhah, M. and **Sadeghi, S.H.R.**, 2019. Impact of urbanization on temporal distribution pattern of storm runoff coefficient, *Environmental Monitoring and Assessment*, 191:595. Doi.org/10.1007/s10661-019-7734-3. (Q3)
- 111) Hazbavi, Z., **Sadeghi, S.H.R.**, and Gholamalifard, M., 2019. Dynamic analysis of soil erosion-based watershed health. *Geography, Environment, Sustainability*, 12(3), 43-59. Doi.org/10.24057/2071-9388-2018-58. (Q3)
- 112) **Sadeghi, S.H.R.**, Saeidi, P., Singh, V. P., and Telvari, A. R., 2019. How persistent are hysteresis patterns between suspended sediment concentration and discharge at different timescales?. *Hydrological Sciences Journal*, 64(15), 1909-1917. Doi.org/10.1080/02626667.2019.1676895. (Q2)
- 113) Sharifi Moghadam, E., **Sadeghi, S.H.R.**, Zarghami, M. and Delavar, M., 2019. Water-energy-food nexus as a new approach for watershed resources management: a review, *Environmental Resources Research*, 7(2), 129-135.
- 114) Adhami, M., **Sadeghi, S.H.R.**, Duttmann, R. and Sheikhmohammady, M., 2020. Best soil comanagement practices for two watersheds in Germany and Iran using game theory-based approaches, *Science of the Total Environment*, 698, 134265. Doi.org/10.1016/j.scitotenv.2019.134265. (Q1)
- 115) Kiani-Harchegani, M. and **Sadeghi, S.H.R.**, 2020. Practicing land degradation neutrality (LDN) approach in the Shazand Watershed, Iran, *Science of the Total Environment*, 698, 134265. Doi.org/10.1016/j.scitotenv.2019.134319. (Q1)



- 116) Hazbavi, Z., **Sadeghi, S.H.R.**, Gholamalifard, M. and Davoudirad, A.A., 2020. Watershed health assessment using pressure-state-response (PSR) framework. *Land Degradation and Development*, 31:3-19. Doi.org/10.1002/ldr.3420. (Q2)
- 117) **Sadeghi, S.H.R.**, Ghaffari, G. A., Rangavar, A., Hazbavi, Z. and Singh, V.P., 2020. Spatiotemporal distribution of soil moisture in gully facies. *International Soil and Water Conservation Research*, 8:15-25. Doi.org/10.1016/j.iswcr.2019.10.001. (Q1)
- 118) **Sadeghi, S.H.R.**, Sharifi Moghadam, E., Delavar, M. and Zarghami, M., 2020. Application of water-energy-food nexus approach for designating optimal agricultural management pattern at a watershed scale. *Agricultural Water Management*, 233, 106071. Doi.org/10.1016/j.agwat.2020.106071. (Q1)
- 119) Kheirfam, H., **Sadeghi, S.H.R.** and Zarei Darki, B., 2020. Soil conservation in an abandoned agricultural rain-fed land through inoculation of cyanobacteria. *Catena*, 187, 104341. Doi.org/10.1016/j.jhydrol.2020.124814. (Q1)
- 120) **Sadeghi, S.H.R.**, Moradi Dashtpagerdi, M., Moradi Rekabdarkoolai, H.R. and Schoorl, J. M., 2020. Sensitivity analysis of relationships between hydrograph components and landscapes metrics extracted from digital elevation models with different spatial resolutions. *Ecological Indicators*, 121, 107025. Doi.org/10.1016/j.ecolind.2020.107025. (Q1)
- 121) Mirchooli, F., Kiani-Harchegani, M., Khaledi Darvishan, A., Falahatkar, S. and **Sadeghi, S.H.R.**, 2020. Spatial distribution dependency of soil organic carbon content to important environmental variables. *Ecological Indicators*, 116, 106473. Doi.org/10.1016/j.ecolind.2020.106473. (Q1)
- 122) **Sadeghi, S.H.R.**, Sadeghi Satri, M., Kheirfam, H. and Zarei Darki, B., 2020. Runoff and soil loss from small plots of erosion-prone marl soil inoculated with bacteria and cyanobacteria under real conditions. *European Journal of Soil Biology*, 101, 103214. Doi.org/10.1016/j.ejsobi.2020.103214. (Q2)
- 123) **Sadeghi, S.H.R.**, Hazbavi, Z., Kiani-Harchegani, M., Younesi, H., Sadeghi, P.S., Angulo-Jaramillo, R. and Lassabatere, L., 2020. The hydrologic behavior of loess and Marl soils in response to biochar and polyacrylamide mulching under laboratorial rainfall simulation conditions. *Journal of Hydrology*, 125620. Doi.org/ 10.1016/j.jhydrol.2020.125620. (Q1)
- 124) **Sadeghi, S.H.R.**, Kiani-Harchegani, M., Hazbavi, Z., Sadeghi, P.S., Angulo-Jaramillo, R., Lassabatere, L. and Younesi, H., 2020. Field measurement of effects of individual and combined application of biochar and polyacrylamide on erosion variables in loess and marl soils. *Science of the Total Environment*, 728,138866. Doi.org/10.1016/j.scitotenv.2020.138866. (Q1)
- 125) **Sadeghi, S.H.R.**, Kheirfam, H. and Zarei Darki, B., 2020. Controlling runoff generation and soil loss from field experimental plots through inoculating cyanobacteria. *Journal of Hydrology*, 124814. Doi.org/10.1016/j.jhydrol.2020.124814. (Q1)
- 126) Mirchooli, F., **Sadeghi, S.H.R.** and Khaledi Darvishan, A., 2020. Analyzing spatial variations of relationships between land surface temperature and some remotely sensed indices in different land uses. *Remote Sensing Applications: Society and Environment*, 19, 100359. Doi.org/10.1016/j.rsase.2020.100359. (Q1)
- 127) Hatefi, M., **Sadeghi, S. H.R.**, Erfanzadeh, R. and Behzadfar, M., 2020. Inhibiting soil loss and runoff from small plots induced by an individual freeze-thaw cycle using three rangeland species. *International Soil and Water Conservation Research*, 8(3), 228-236. Doi.org/10.1016/j.iswcr.2020.05.004. (Q1)
- 128) **Sadeghi, S.H.R.**, Najafinejad, A., Gharemahmudli, S., Zarei Darki, B., Mohammadian Behbahani, A. and Kheirfam, H., 2021. Reduction in soil loss caused by a freeze-thaw cycle through inoculation of endemic soil microorganisms. *Applied Soil Ecology*, 157, 103770. Doi.org/10.1016/j.apsoil.2020.103770. (Q2)
- 129) Najafi, S., Dragovich, D., Heckmann, T. and **Sadeghi, S.H.R.**, 2021. Sediment connectivity concepts and approaches. *Catena*, 196, 104880. Doi.org/10.1016/j.catena.2020.104880. (Q1)
- 130) Moosavi, V. and **Sadeghi, S.H.R.**, 2021. Modeling and optimization of experimental designs for soil loss assessment at plot scale. *Journal of Hydrology*, 592, 125806. Doi.org/10.1016/j.jhydrol.2020.125806. (Q1)



- 131) Zare, S., **Sadeghi, S.H.R.** and Khosravani, A., 2021. Controllability of soil and water loss in small plots using nanofiber amendment produced from recycled old paperboard containers. *Soil and Tillage Research*, 209, 104949. Doi.org/10.1016/j.still.2021.104949. (Q1)
- 132) Najafi S., Sadeghi S.H.R. and Heckmann T., 2021. Analysis of sediment accessibility and availability concepts based on sediment connectivity throughout a watershed. *Land Degradation and Development*, 2021:1–22. Doi.org/10.1002/ldr.3964. (Q2)
- 133) Abdollahi, Z., **Sadeghi, S.H.R.** and Khaledi Darvishan, A., 2021. Detailed procedure for outdoor measurement of raindrop size distribution using photogrammetry. *Journal of Hydrology and Hydromechanics*, 69(2): 171-179. Doi.org/10.2478/johh-2021-0007. (Q3)
- 134) Mirchooli, F., **Sadeghi, S.H.R.**, Khaledi Darvishan, A. and Strobl, J., 2021. Multi-dimensional assessment of watershed condition using a newly developed barometer of sustainability, *Science of The Total Environment*, 791, 148389. Doi.org/10.1016/j.scitotenv.2021.148389. (Q1)
- 135) Jafarpoor, A., **Sadeghi, S.H.R.**, Zarei Darki, B. and Homaeae, M., 2022. Changes in morphologic, hydraulic, and hydrodynamic properties of rillerosion due to surface inoculation of endemic soil cyanobacteria, *Catena*, 105782. Doi.org/10.1016/j.catena.2021.105782. (Q1)
- 136) Jafarpoor, A., **Sadeghi, S.H.R.**, Zarei Darki, B. and Homaeae, M., 2022. Changes in hydrologic components from a mid-sized plots due to cyanobacterization, *International Soil and Water Conservation Research*, 10(1): 143-148. Doi.org/10.1016/j.iswcr.2021.05.002. (Q1)
- 137) Katebikord, A. **Sadeghi, S.H.R.** and Singh, Vijay P., 2022. Spatial modeling of soil organic carbon using remotely sensed indices and environmental field inventory variables, *Environmental Monitoring and Assessment*, 194:152. Doi.org/10.1007/s10661-022-09842-8. (Q3)
- 138) Gharemahmudli, S., **Sadeghi, S.H.R.**, Sadeghi, V. S., Najafinejad, A. and Jafarpoor, A., 2022. Morphometrical analysis of cracks and crevices on a cyanobacterized soil surface subjected to a freeze-thaw cycle using image processing, *Catena*, 213, 106150. Doi.org/10.1016/j.catena.2022.106150. (Q1)
- 139) **Sadeghi, S.H.R.**, Khazayi, M. and Mirnia, S. K., 2022. Effect of soil surface disturbance on overland flow, sediment yield, and nutrient loss in a Hyrcanian deciduous forest stand in Iran. *Catena*, 218, 106546. Doi.org/10.1016/j.catena.2022.106546. (Q1)
- 140) Mirchooli, F., **Sadeghi, S.H.R.** and Khaledi Darvishan, A., 2022. Spatiotemporal dynamic of environmental indices of watershed sustainability in connection with land-use change. *Ecosystem Health and Sustainability*, 8(1), 2024454. Doi.org/10.1080/20964129.2021.2024454. (Q1)
- 141) **Sadeghi, S.H.R.**, Vafakhah, M., Moosavi, V., Pourfallah Asadabadi, S., Sadeghi, P.S., Khaledi Darvishan, A., Bagheri Fahraji R, Mosavinia SH, Majidnia A, Gharemahmudli S and Rekabdarkolaei, H. M., 2022. Assessing the health and ecological security of a human induced watershed in central Iran. *Ecosystem Health and Sustainability*, 8(1), 2090447. Doi.org/10.1080/20964129.2022.2090447. (Q1)
- 142) Nasiri Khiavi, A., Vafakhah, M. and **Sadeghi, S.H.R.**, 2022. Comparative prioritization of sub-watersheds based on flood generation potential using physical, hydrological and co-managerial approaches. *Water Resources Management*, 36(6), 1897-1917. Doi.org/10.1007/s11269-022-03114-3. (Q1)
- 143) Katebikord, A., **Sadeghi, S.H.R.** and Singh, V.P., 2022. Efficacy of synthetic sediment graph developed using various modified time-area methods. *Geography, Environment, Sustainability*, 15(2), 38-57. Doi.org/10.24057/2071-9388-2021-109. (Q3)
- 144) Chamani, R., Vafakhah, M. and **Sadeghi, S.H.R.**, 2022. Changes in reliability–resilience–vulnerability-based watershed health under climate change scenarios in the Efin Watershed, Iran. *Natural Hazards*, pp.1-20. Doi.org/10.1007/s11069-022-05774-1. (Q2)
- 145) Chamani, R., **Sadeghi, S.H.R.**, Zare, S., Shekohideh, H., Momzaei, A., Amini, H., Hemmati, L. and Zarei, R., 2022. Flood-oriented watershed health and ecological security conceptual modeling using pressure, state, and response (PSR) approach for the Sharghonj Watershed, South Khorasan Province, Iran. *Natural Resource Modeling*, e12385. Doi.org/10.1111/nrm.12385. (Q3)
- 146) Mirchooli, F., Mohammadi, M. and **Sadeghi, S.H.R.**, 2023. Spatial modeling of relationship between soil erosion factors and land-use changes at sub-watershed scale for the Talar watershed, Iran. *Natural Hazards*, 116(3), 3703-3723. Doi.org/10.1007/s11069-023-05832-2 (Q2)



- 147) Ebrahimi Gatgash, Z. and **Sadeghi, S.H.R.**, 2023. Prioritization-based management of the watershed using health assessment analysis at sub-watershed scale. *Environment, Development, and Sustainability*, 25:9673–9702. Doi.org/10.1007/s10668-022-02455-8. (Q2)
- 148) Sharifi Moghadam, E., **Sadeghi, S.H.R.**, Zarghami, M. and Delavar, M., 2023. Developing sustainable land-use patterns at watershed scale using nexus of soil, water, energy, and food, *Science of the Total Environment*, 158935. Doi.org/j.scitotenv.2022.158935. (Q1)
- 149) Farzi, P., **Sadeghi, S.H.R.** and Jomehpour, M., 2022. Spatial and temporal zoning of watershed resilience using a multidimensional composition approach. *Natural Resource Modeling*, e12362. Doi.org/10.1111/nrm.12362. (Q3)
- 150) Kalehhouei, M., **Sadeghi, S.H.R.** and Khaledi Darvishan, A., 2023. Changes in raindrop properties due to wind blowing using image processing. *Catena*, 221, 106789. Doi.org/10.1016/j.catena.2022.106789. (Q1)
- 151) **Sadeghi, S.H.R.**, Jafarpoor, A., Homaei, M. and Zarei Darki, B., 2023. Changeability of rill erosion properties due to microorganism inoculation, *Catena*, 106956. Doi.org/10.1016/j.catena.2023.106956. (Q1)
- 152) **Sadeghi, S.H.R.**, Zabihi Seilabi, M., Sarvi Sadrabad, H., Riyahi M.R. and Modarresi Tabatabaei, S., 2023. Watershed health and ecological security modeling using anthropogenic, hydrologic, and climatic factors. *Natural Resource Modeling*, e12371. Doi.org/10.1111/nrm.12371. (Q3)
- 153) **Sadeghi, S.H.R.**, Ashgevar Heydari, M. and Jafarpoor, A., 2023. Inhabitability of soil loss and sediment concentration during consecutive rainfalls from experimental plots treated by endemic microorganisms. *International Journal of Sediment Research*, 38: 446-454. Doi.org/10.1016/j.ijsrc.2023.01.001. (Q2)
- 154) Nasiri Khiavi, A., Vafakhah, M. and **Sadeghi, S.H.R.**, 2023. Comparative applicability of MCDM-SWOT-based techniques for developing integrated watershed management framework; *Natural Resource Modeling*, e12380. Doi.org/10.1111/nrm.12380. (Q3)
- 155) Nasiri Khiavi, A., Vafakhah, M. and **Sadeghi, S.H.R.**, 2023. Flood-based critical sub-watershed mapping: comparative application of multi-criteria decision making methods and hydrological modeling approach, *Stochastic Environmental Research and Risk Assessment*, 37: 2757–2775. Doi.org/10.1007/s00477-023-02417-0. (Q1)
- 156) Gharemahmudli, S., **Sadeghi, S.H.R.**, Najafinejad, A., Zarei Darki, B., Kheirfam, H. and Mohammadian Behbahani, A., 2023. Changes in overall and inter-variability of runoff and soil loss for a loess soil resulted from a freezing–thawing cycle, *Environmental Monitoring and Assessment*, 195:860. Doi.org/10.1007/s10661-023-11446-9. (Q3)
- 157) Farzadfar, E., **Sadeghi, S.H.R.** and Tanha Ziyarati, M., 2023. Inhabitability of soil loss and runoff during interrill erosion due to the application of molecular sieve produced through the gas refining process, *Environmental Earth Sciences*, 82: 337. Doi.org/10.1007/s12665-023-11025-8. (Q2)
- 158) Mirchooli, F., Dabiri, Z., Strobl, J., Khaledi Darvishan, A. and **Sadeghi, S.H.R.**, 2023. Spatial and temporal dynamics of rangeland ecosystem services across the Shazand Watershed, Iran. *Rangeland Ecology & Management*, 90: 45–55. Doi.org/10.1016/j.rama.2023.05.005. (Q3)
- 159) Forootan1, E. and **Sadeghi, S.H.R.** 2023. Relative importance of climatic and anthropogenic factors on runoff change at watershed scale. *International Journal of Environmental Science and Technology*, 20: 3059–3070. Doi.org/10.1007/s13762-023-04759-2. (Q1)
- 160) Panagos, P., Hengl, T., Wheeler, I., Marcinkowski, P., Rukeza, M.B., Yu, B., Yang, J.E., Miao, C., Chattopadhyay, N., **Sadeghi, S.H.R.**, Levi, Y., Erpul, G., Birkel, CH., Hoyos, N., Oliveira., P.T.S., Bonilla, C.A., Nel, W., Dashti, H.A., Bezak, N., Oost, K.V., Petan, S., Fenta, A.A., Haregeweyn, N., Pérez-Bidegain, M., Liakos, L., Ballabio, C. and Borrelli, P., 2023. Global rainfall erosivity database (GloREDa) and monthly R-factor data at 1 km spatial resolution. *Data in Brief*, 109482. Doi.org/10.1016/j.dib.2023.109482. (Q2)
- 161) Ashgevar Heydari, M., **Sadeghi, S.H.R.** and Jafarpoor, A., 2023. Hydrological properties of rill erosion on a soil from a drought-prone area during successive rainfalls as a result of microorganism inoculation, *Sustainability*, 15:14379. Doi.org/10.3390/su151914379. (Q2)



- 162) **Sadeghi, S.H.R.**, Chamani, R., Zabihi Seilabi, M., Tavosi, M., Katebikord, A., Khaledi Darvishan, A., Moosavi, V., Sadeghi, P.S., Vafakhah, M. and Moradi Rekabdarkolaei, H. R., 2023. Watershed health and ecological security zoning throughout Iran, *Science of The Total Environment*, 95:167123. Doi.org/10.1016/j.scitotenv.2023.167123. (Q1)
- 163) Bernini, A., Becker, R., Adeniyi, O.D., Pilla, G., **Sadeghi, S.H.R.** and Maerker, M., 2023. Hydrological implications of recent droughts (2004–2022): A SWAT based study in an ancient lowland irrigation area in Lombardy, Northern Italy, *Sustainability*, 15, 16771. Doi.org/10.3390/su152416771. (Q2)
- 164) **Sadeghi, S.H.R.**, Zabihi Seilabi, M., Bordoni, M., Nguyen, T.N.A., Maerker, M. and Claudia, M., 2024. A game theory-based prioritization of drought affected demo vineyards using soil main properties in the northern Apennines, Italy, *Catena*, 237, 107767. Doi.org/10.1016/j.catena.2023.107767. (Q1)
- 165) Gharemahmudli, S., **Sadeghi, S.H.R.**, Najafinejad, A., Zarei Darki, B., Mohammadian Behbahani, A. and Kheirfam, H., 2024. Controlling enhanced surface runoff components as a result of a freezing-thawing cycle by inoculating soil bacteria and cyanobacteria. *Soil and Tillage Research*, 237, 105989. Doi.org/10.1016/j.still.2023.105989. (Q1)
- 166) Kalehhouei, M., **Sadeghi, S.H.R.** and Khaledi Darvishan, A., 2024. Changeability of runoff and soil loss from inclined mid-sized plots under simulated upward wind-driven rain. *Catena*, 232, 107453. Doi.org/10.1016/j.catena.2023.107453. (Q1)
- 167) Ebrahimi Gatgash, Z. and **Sadeghi, S.H.R.**, 2024. Comparative effect of conventional and adaptive management approaches on watershed health. *Soil and Tillage Research*, 235:105869. Doi.org/10.1016/j.still.2023.105869. (Q1)
- 168) Riahi, M.R., **Sadeghi, S.H.R.**, Mirnia, S.K. and Sadoddin, A., 2024. Coincidence of sustainable development indicators for the Nekarood watershed with the United Nation's sustainable development goals. *Science of the Total Environment*, 917, 170177. Doi.org/10.1016/j.scitotenv.2024.170177. (Q1)
- 169) Katebikord, A., **Sadeghi, S.H.R.** and Singh, V.P., 2024. A new approach to simulate watershed sediment graphs. *International Journal of Sediment Research*, 39, 153-164. Doi.org/10.1016/j.ijsrc.2023.11.002. (Q2)
- 170) Nasiri Khiavi, A., Vafakhah, M. and **Sadeghi, S.H.R.**, 2024. Application of strategic planning and multi-objective decision-making models in integrated watershed management: A case study in the Cheshmeh-Kileh Watershed, Iran. *Journal of Hydrology*, 631, 130690. Doi.org/10.1016/j.jhydrol.2024.130690. (Q1)
- 171) **Sadeghi, S.H.R.**, Zabihi Silabi, M. and Vafakhah, M., 2024. Soil erosion-based sub-watershed prioritization through coupling various crop management and erosivity scenarios using game theory. *Advances in Space Research*, 73, 5822-5835. Doi.org/10.1016/j.asr.2024.03.001. (Q1)
- 172) Nasiri Khiavi, A., **Sadeghi, S.H.R.** and Vafakhah, M., 2024. Comparative prioritization of sub-watersheds in flood generation using co-management best-worst method and game theory algorithm. *Water Resources Management*. Doi.org/10.1007/s11269-024-03873-1. (Q1)
- 173) Mumzaei, A., **Sadeghi, S.H.R.**, Zarei Darki, B. and Homaeae, M., 2024. Reducing gasoil-induced soil loss using endemic soil microorganisms. *Physics and Chemistry of the Earth*, 103648. Doi.org/10.1016/j.pce.2024.103648. (Q2)
- 174) Rajabi, M.R., Vafakhah, M. and **Sadeghi, S.H.R.**, 2024. Predicting the effect of hydro-climatic and land-use dynamic variables on watershed health status. *Environmental Science and Pollution Research*, 31, 44150-44168, Doi.org/10.1007/s11356-024-34071-6. (Q1)
- 175) La Licata, M., Bosino, A., **Sadeghi, S.H.R.**, De Amicis, M., Mandarino, A., Terret, A. and Maerker, M., 2024. HOTSSED: A new integrated model for assessing potential hotspots of sediment sources and related sediment dynamics at watershed scale. *International Soil and Water Conservation Research*. Doi.org/10.1016/j.iswcr.2024.06.002. (Q1)
- 176) Tavosi, M., Vafakhah, M., Shekohideh, H., **Sadeghi, S.H.R.**, Moosavi, V., Zheng, Z. and Yang, Q., 2024. Rainfall extreme indicators trend and meteorological drought changes under climate change scenarios. *Water Resources Management*, 38, 4393-4413. Doi.org/10.1007/s11269-024-03871-3. (Q1)



- 177) Gharemahmudli, S., **Sadeghi, S.H.R.** and Najafinejad, A., 2024. The potential of soil endemic microorganisms in ameliorating the physicochemical properties of soil subjected to a freeze-thaw cycle. *Pedobiologia - Journal of Soil Ecology*, 106, 150988. Doi.org/10.1016/j.pedobi.2024.150988 (Q3)
- 178) Tavosi, M., Vafakhah, M., **Sadeghi, S.H.R.** and Bateni, S.M., 2024. Sub-watershed prioritization based on watershed hydrological security using different multi-criteria decision-making methods. *Water Resources Management*, 1-26. Doi.org/10.1007/s11269-024-03957-y. (Q1)
- 179) **Sadeghi, S.H.R.**, Sadeghian, K., Khodamoradi, Karimi Breshneh, S., Beigi, H., Chamani, R. and Moosavi, V., 2024. Ecological health and security of the Jazmurian Wetland Endorheic Watershed, Iran. *Environmental Science and Pollution Research*, 1-20. Doi.org/10.1007/s11356-024-35483-0. (Q1)
- 180) Mumzaei, A., **Sadeghi, S.H.R.**, Zarei Darki, B. and Homae, M., 2024. Change in morphometrical properties of surface cracks on a petroleum-contaminated soil inoculated by microorganisms. *Soil and Sediment Contamination: An International Journal*, 33(7), 1000-1017. Doi.org/10.1080/15320383.2023.2286021. (Q4)
- 181) Gharemahmudli, S. and **Sadeghi, S.H.R.**, 2024. Controllability of runoff attributes on a saline soil treated by cyanobacteria inoculant. *Journal of Soil and Water Conservation-India*, 23(3), 231-239. Doi.org/10.5958/2455-7145.2024.00028.6.
- 182) Gharemahmudli, S. and **Sadeghi, S.H.R.**, 2025. Inhibiting soil and water loss in a saline soil through cyanobacterization. *Soil and Tillage Research*, 248, 106446. Doi.org/10.1016/j.still.2024.106446. (Q1)
- 183) Jafarpour, A., **Sadeghi, S.H.R.**, Homae, M. and Zarei Darki, B., 2025. Improvability of quality main indices of a marl soil using endemic microorganisms. *Physics and Chemistry of the Earth, Parts A/B/C*, 103812. Doi.org/10.1016/j.pce.2024.103812. (Q2)
- 184) **Sadeghi, S.H.R.**, Chamani, R., Kalehhouei, M. and Haji, Kh., 2025. Health variability based on SPI and estimating median and mean health indices in watersheds and townships of Kermanshah Province, Iran. *Environment, Development and Sustainability*, 27, 30179-30199 1-21. Doi.org/10.1007/s10668-024-04911-z. (Q2)
- 185) **Sadeghi, S.H.R.**, Jafarpour, A., Homae, M. and Gharemahmudli, S., 2025. Controllability of soil loss and runoff using soil microorganisms: A review. *Ecohydrology & Hydrobiology*, 25, 23-33. Doi.org/10.1016/j.ecohyd.2023.11.006. (Q3)
- 186) Pourfallah Asadabadi, S., **Sadeghi, S.H.R.**, Vafakhah, M. and Delavar, M., 2025. Significance of the water-energy-food nexus on the watershed health status. *Water Resources Management*, 39: 2217–2250, 1-34. Doi.org/10.1007/s11269-024-04064-8. (Q1)
- 187) Jafarpour, A., **Sadeghi, S.H.R.**, Kazemi, M. and Ashgevar Heydari, M., 2025. Changeability of rill morphometry during Succeedent rainfall events due to soil Microorganisms' inoculation. *Catena*, 108883. Doi.org/10.1016/j.catena.2025.108883. (Q1)
- 188) Zabihi Silabi, M., **Sadeghi, S.H.R.** and Vafakhah, M., 2025. Soil erosion elasticity initiative for prioritizing sub-watersheds. *International Soil and Water Conservation Research*, 13, 277-289. Doi.org/10.1016/j.iswcr.2024.12.001. (Q1)
- 189) Havasi, M., **Sadeghi, S.H.R.**, Khaledi Darvishan, A.V. and Erfanzadeh, R., 2025. Controllability of runoff and soil loss in laboratory plots across different growth stages of *Agropyron desertorum*. *Journal of Hydrology*, 661, 133470. Doi.org/10.1016/j.hydro.2025.133470. (Q1)
- 190) Rončević, V., Živanović, N., Radulović, L., Ristić, R., **Sadeghi, S.H.R.**, Fernández-Raga M., and A. Prats, S., 2025. Design, calibration, and performance evaluation of a high-fidelity spraying rainfall simulator for investigating soil erosion dynamics. *Water*, 17, 1863. Doi.org/10.3390/w17131863. (Q2)
- 191) Kalehhouei, M., **Sadeghi, S.H.R.**, Khaledi Darvishan, A.V. and Hasanzadeh, N., 2025. In-depth dynamic analysis of raindrop characteristics under varying intensities using image processing. *Hydrological Sciences Journal*, 1-11. Doi.org/10.1080/02626667.2025.2508892. (Q2)
- 192) **Sadeghi, S.H.R.**, Tavosi, M., Pakravan, A.R., Yaghooti, R., Esmailzadeh, F., Fereydoni, H., Enayati, F.Z., Alipour, R., Zabihi Seilabi, M. and Katebikord, A., 2025. Enhancing precision in sediment yield estimation: The synergistic effects of runoff and vegetation dynamics. *Physics and Chemistry of the Earth*, 140, 104016. Doi.org/10.1016/j.pce.2025.104016. (Q2)



- 193) Nasiri Zahra, A., **Sadeghi, S.H.R.** and Moosavi, V., 2025. Coupling multi-coordination degree among land-use/land-cover, ecosystem service value, and socio-economic status in the Shazand Watershed, Markazi Province, Iran. *Environment, Development and Sustainability*. Doi.org/10.1007/s10668-025-06600-x. (Q2)
- 194) Naderi Marangalo, N., **Sadeghi, S.H.R.**, Erfanzadeh, R. and Khaledi Darvishan, A., 2025. Deciphering runoff and soil loss processes during various phenological stages of *Trifolium pratense* at small plot scale. *Soil Science Society of America Journal*, 89, e70100. Doi.org/10.1002/saj2.70100. (Q1)
- 195) Nasiri Khiavi, A., Vafakhah, M. and **Sadeghi, S.H.R.**, 2025. Strategic flood management using collaborative game theory: conjunct application of hydrologic and strategic planning models. *Environment. Development and Sustainability*. Doi.org/10.1007/s10668-024-04693-4. (Q2)
- 196) Beiranvandi, V., Khaledi Darvishan, A. and **Sadeghi, S.H.R.**, 2025. Use of geochemical tracers to determine the sources for Riverine sediment with different sizes in a forest-agricultural watershed, northern Iran. *Environmental and Sustainability Indicators*, 25, 100951. Doi.org/10.1016/j.indic.2025.100951. (Q1)
- 197) Gharemahmudli, S. and **Sadeghi, S.H.R.**, 2025. Runoff suppression in freezing-thawing soils: The pivotal role of endemic bacterial inoculation. *Journal of Soil and Water Conservation-India*, 24(3): 227-233. Doi.org/10.5958/2455-7145.2025.00027.2.
- 198) Zaki, S.A., **Sadeghi, S.H.R.**, Vafakhah, M. and Khaledi Darvishan, A.V., 2025. Decoding suspended sediment dynamics in representative watersheds of Iran's Caspian Sea Basin. *Hydrological Sciences Journal*, 3084-3098. Doi.org/10.1080/02626667.2025.2578242. (Q2)
- 199) Hu, J., Wang, p., Meng, Z., Feng T., Zheng, H. and **Sadeghi, S.H.R.**, 2025. Hydrodynamic behavior of overland flow on slopes with various soil surface coverages, *International Soil and Water Conservation Research*, 1-12. Doi.org/10.1016/j.iswcr.2025.10.006. (Q1)
- 200) **Sadeghi, S.H.R.**, Nasiri Khiavi, A., Maerker, M., KatebiKord, A., Sadeghi, P.S., Ghiasi, S.S. and Vafakhah, M., 2025. Sub-watershed prioritization using advanced multi-criteria decision-making approaches for proactive flood risk management. *Journal of Flood Risk Management*, 18:e70163. Doi.org/10.1111/jfr3.70163. (Q2)
- 201) Beigi, H., **Sadeghi, S.H.R.**, Vafakhah, M., Mousavi, V. and Maerker, M., 2025. Soil erosion resistivity metric for sub-watershed prioritization. *Science of the Total Environment*, 999, 180367. Doi.org/10.1016/j.scitotenv.2025.180367. (Q1)
- 202) **Sadeghi, S.H.R.**, La Licata, M., Katebikord, A., Terret, A. and Maerker, M., 2025. Examining hydrographs, sediment graphs, and rating loops of the Arda-Mignano Dam Watershed, Italy. *International Soil and Water Conservation Research*, 14(1): 100580. Doi.org/10.1016/j.iswcr.2025.09.012. (Q1)
- 203) Liu, B., Wen, Y., Lin, L., **Sadeghi, S.H.R.**, Zhou, T. and Peng, X., 2026. Moisture-driven cracking triggers gully sidewall collapse: identifying critical thresholds in frozen Mollisols. *Catena*, 262, 109675. Doi.org/10.1016/j.catena.2025.109675. (Q1)
- 204) **Sadeghi, S.H.R.**, Maerker, M., Zabihi Silabi, M., Gharemahmudli, S., Bordoni, M., Anh Nguyen, T.N., Gatti, M., Poni, S. and Meisina, C., 2026. Soil moisture dynamics under various drought resilience measures in Mediterranean vineyards of the northern Apennines, Italy. *Science of the Total Environment*, 1012, 181210. Doi.org/10.1016/j.scitotenv.2025.181210. (Q1)
- 205) Shekohideh, H., Vafakhah, M., **Sadeghi, S.H.R.** and Moosavi, V., 2026. Evaluating the reliability, resilience, and vulnerability of water resources: the impact of minimum, maximum, environmental flows, and water quality. *Applied Water Science*, 16, 8. Doi.org/10.1007/s13201-025-02670-4. (Q1)
- 206) **Sadeghi, S.H.R.**, Esmaeili, F., Azizi, E., Chamani, R., Havasi, M., Kateb, F., Pakparvar, M., Beigi, H. and Behnia, N., 2026. Watershed health dividend of floodwater spreading: quantifying benefits through counterfactual scenarios. *Water Resources Management*, 40, 57. Doi.org/10.1007/s11269-025-04477-z. (Q1)
- 207) Bahlekeh, M. and **Sadeghi, S.H.R.**, 2026. A novel watershed viability assessment grounded in global sustainable development goals. *Environmental and Sustainability Indicators*, 30, 101057. Doi.org/10.1016/j.indic.2025.101057. (Q1)



- 208) Tavosi, M., Vafakhah, M., **Sadeghi, S.H.R.** and Bateni, S.M., 2026. Ecological lens on prioritizing water security at sub-watershed level using Pressure-State-Response model and Ordinal Priority. *Environmental and Sustainability Indicators*, 3, 101139. Doi.org/10.1016/j.indic.2026.101139. (Q1)
- 209) **Sadeghi, S.H.R.** Behnia, N., Chamani, R., Moosavi, V., Nasiri Khiavi, A., Shoushtari, M.H., Nouri, H., Sadeghi, P.S., Kalehouei, M., Gharemahmudli, S., Tavosi, M., Zabihi Silabi, M., Khaledi Darvishan, A., Vafakhah, M. and Moradi Rekabdarkolaei, H.R., 2026. National watershed health diagnosis: A pressure-state-response assessment of Iran's 3rd-order watersheds. *Ecological Indicators*, 183, 114572. Doi.org/10.1016/j.ecolind.2025.114572. (Q1)
- 210) Sadeghian, K., Vafakhah, M., **Sadeghi, S.H.R.**, Moosavi, V. and Amaziane, B., 2026. A thematic examination of system dynamics in river science research and an agenda for future investigations. *Water Resources Management*, 40, 57. Doi.org/10.1007/s11269-025-04441-x. (Q1)
- 211) Kalehouei, M., **Sadeghi, S.H.R.** and Khaledi Darvishan, A., 2026. Variability of splash and interrill erosion under simulated downward wind-driven rainfall. *Soil and Tillage Research*, 260, 107127. Doi.org/10.1016/j.still.2026.107127. (Q1)
- 212) Zivanovi, N., Roncevi, V., **Sadeghi, S.H.R.**, Cebasek, V., Rupar, V., Polovina, S. and Corluka, S., 2026. Surface soil physical property fingerprint of piping influenced gully erosion. *Geoderma Regional*, ۴۴, e01062. Doi.org/10.1016/j.geodrs.2026.e01062. (Q1)
- 213) Zabihi Silabi, M., **Sadeghi, S.H.R.**, Vafakhah, M. and Maerker, M., 2026. Watershed health elasticity: a new effective management approach. *Ecological Indicators*, 185, 114787. Doi.org/10.1016/j.ecolind.2026.114787. (Q1)

- Peer-Reviewed Paper (Mainly in Persian) with English Abstract

- 1) **Sadeghi, S.H.R.** and Tofighi, B., 2003. Applicability of time-area model in development of sediment graph (Case study: Khanmirza River in Karoon Basin), *Journal of Agricultural Science and Natural Resources of Khazar*, 1(1):54-66.
- 2) **Sadeghi, S.H.R.**, Jalalirad, R. and Alimohammadi Sarab, A., 2003. Flood zoning using HEC-RAS Software and GIS (Case study: Tehran Darabad Watershed), *Journal of Agricultural Science and Natural Resources of Khazar*, 1(2):34-47.
- 3) **Sadeghi, S.H.R.**, Singh, J.K. and Das, G., 2003. Storm-wise sediment yield prediction using applicable models in Iran, *Journal of Agricultural Science and Natural Resources of Khazar*, 1(3):83-94.
- 4) **Sadeghi, S.H.R.**, 2004. Development of sediment rating curve equations for rising and falling limbs of hydrograph using regression concept, *Iran-Water Resources Research Journal*, 1(1): 101-103.
- 5) **Sadeghi, S.H.R.**, Nikpoor, A. and Ayyoobzadeh, S.A., 2004. Daily sediment estimation using dynamic modeling in Kasilian Watershed, *Iranian Journal of Natural Resources*, 57(3):391-402.
- 6) **Sadeghi, S.H.R.**, 2004. Introducing the application of some of mathematical models in optimal water management, *Forest and Range Journal*, 64: 44-49.
- 7) **Sadeghi, S.H.R.**, Sharifi, F., Forootan, E. and Rezaee, M., 2004. Quantitative performance evaluation of watershed management measures (Case study: Keshar sub-watershed), *Journal of Pazhohesh va Sazandegi*, 17(4):96-102.
- 8) **Sadeghi, S.H.R.**, Behzadfar, M., 2005. Spatial variation of rainfall erosivity in mazandaran province, *Journal of Agricultural Science and Natural Resources of Khazar*, 2(1):36-49.
- 9) **Sadeghi, S.H.R.**, Behzadfar, M., 2005. Study on relationship between erosivity factor and rain parameters in climatological Mazandaran Province and Gorgan Stations, *Water and Watershed Journal, Soil Conservation and Watershed Management Research Institute*, 1(1):2-10.
- 10) **Sadeghi, S.H.R.**, Ghasempouri, S.M. and Vafaekhah, N., 2005. Evaluation of some of quality indices of drinking water in Noor City, Mazandaran, *The Environment, Journal of the Environmental Research Institute*, 1(1):15-19.
- 11) **Sadeghi, S.H.R.**, 2005. Comparison of some rainfall erosivity prediction methods, *Agricultural Science and Technology Journal, Ferdowsi University of Mashhad*, 19(1):46-52.
- 12) **Sadeghi, S.H.R.**, Moradi, H.R., Mozayyan, M. and Vafakhah, M., 2005. Comparison of different statistical analysis methods in rainfall-runoff modeling (Case study: Kasilian watershed). *Journal of Agricultural Science and Natural Resources*, 12(3):81-90.



- 13) Dehghani, M., Karami Khaniki, A. and **Sadeghi, S.H.R.**, 2005, Study on efficiency of time-area method and Clark instantaneous unit hydrograph in estimation of flood discharge, *Water and Watershed Journal, Soil Conservation and Watershed Management Research Institute*,2:77-83.
- 14) **Sadeghi, S.H.R.**, Shojaee, Gh.R. and Moradi, H.R., 2005. Relationship between land use and soil erosion in Manderijan Catchment in Zayandehrud Dam Basin, *Water and Watershed Journal, Soil Conservation and Watershed Management Research Institute*,1(4):17-23.
- 15) **Sadeghi, S.H.R.**, Aghabeigi Amin, S., Yasrebi, B., Vafakhah, M. and Esmaeili Sari, A., 2005. Study on temporal variation of sediment yield at Panjab station in Haraz watershed, *The Environment, Journal of the Environmental Research Institute*, 1(4):11-16.
- 16) Behzadfar, M., Moradi, H.R. and **Sadeghi, S.H.R.** 2005. Modeling rainfall erosivity factor for single showers: A case study in Khuzestan Province, Iran. *The International Journal of Humanities*, 12(3): 41-50.
- 17) **Sadeghi, S.H.R.** and Dehghani, M.R., 2006. Efficiency of clark instantaneous unit hydrograph in flood unit hydrograph regeneration, *Iran-Water Resources Research Journal*, 1(2):97-99.
- 18) **Sadeghi, S.H.R.**, Forootan, E. and Sharifi, F., 2006. Performance evaluation of watershed management measures using qualitative method (Case study: Part of Kan Watershed, Iran), *Geographical Research*, 79(4):37-47.
- 19) **Sadeghi, S.H.R.**, Tofoghi, B. and Mahdavi, M., 2006. Sediment estimation modeling in Zarrinderakht Watershed, *Iranian Journal of Natural Resources*, 58(4):759-768.
- 20) **Sadeghi, S.H.R.**, Yasrebi, B. and Noor Mohammadi, F. 2006. Development and analysis of monthly precipitation-runoff relationships for Haraz Watershed in Mazandaran Province, *Journal of Agricultural Science and Natural Resources of Khazar*, 3(1):1-12.
- 21) **Sadeghi, S.H.R.**, Aghabeigi Amin, S., Yasrebi, B., Vafakhah, M. and Esmaeili Sari, A., 2006. Temporal and spatial variation of suspended sediment yield of important subwatersheds in Haraz Basin, *Journal of Agricultural Science and Natural Resources of Khazar*, 3(3):15-29.
- 22) **Sadeghi, S.H.R.**, Vafakhah, M. and Hajigholizadeh, M., 2006. Flood hazard study and zoning in Tehran Eram Park, *Journal of the Environmental Research Institute*, 1(3):41-45 and 64.
- 23) **Sadeghi, S.H.R.**, Safaeian, N.A. and Ghanbari, S.A., 2006. Study on effect of land uses on type and intensity of soil erosion (Case study: Kasilian Watershed), *Journal of Agricultural Engineering Research*, 7(26): 85-98.
- 24) **Sadeghi, S.H.R.** and Dehghani, M.R., 2006. Efficacy of estimation methods for storage coefficient of instantaneous unit hydrograph in flood unit hydrograph regeneration, *Journal of Agricultural Science and Technology*, 13(3):152-160.
- 25) **Sadeghi, S.H.R.**, Hajigholizadeh, M. and Vafakhah, M., 2006. Effects of groins and drops on flood depth and extension (Case study: Tehran Kan river), *Journal of Agricultural Science and Natural Resources*,13(4):109-119.
- 26) **Sadeghi, S.H.R.**, Ghaderivangah, B. and Safaeian, N.A., 2006. Study on effects of open grazing and planted treatments on runoff generation, *Iranian Journal of Soil and Water Sciences*, 20(2):328-337.
- 27) **Sadeghi, S.H.R.**, Azari, M. and Ghaderi Vangah, B., 2006. Application, calibration, and sensitivity analysis of Hillslope Erosion Model (HEM) in prediction of soil erosion in natural and planted rangelands, *Journal of Agricultural Science and Natural Resources of Khazar*, 4(1):1-14.
- 28) **Sadeghi, S.H.R.**, Razavi, S.L. and Raeisian, R., 2006. Comparison between rainfed and poor rangeland land uses in runoff and sediment yield in summer and winter, *Agricultural Research (Water, Soil and Plant in Agriculture)*, 6(4): 11-22.
- 29) **Sadeghi, S.H.R.**, Ghaderi Vangah, B. and Safaeian, N.A., 2007. Comparison between storm-wise sediment yield in rangelands under open grazing and planted treatments, *Agricultural Science and Technology Journal, Ferdowsi University of Mashhad*, 20(6):35-46.
- 30) Jalili, Kh., **Sadeghi, S.H.R.** and Nikkami, N., 2007. Land use optimization of watershed for Soil erosion minimization using linear programming (A case study of Brimvand watershed, Kermanshah Province), *Journal of Agricultural and Natural Resources Science and Technologies*, 4(A): 15-27.
- 31) **Sadeghi, S.H.R.**, Najafi, D.A. and M. Vafakhah, 2007. Regional analysis of suspended sediment estimation in esfahan and sirjan watershed, *Iran-Water Resources Research Journal*, 2(3):51-65 and 101-102.



- 32) Moradi, H.R., Behzadfar, M. and **Sadeghi, S.H.R.**, 2007. An investigation of relationship between precipitation parameters and erosivity in Khuzestan, Iran, The Scientific Journal of Agriculture, Shahid Chamran University of Ahvaz, 29(4):69-84.
- 33) **Sadeghi, S.H.R.**, Pourghasemi, H.R. and Mohammadi, M., 2007. Comparison of accuracy of some soil erosion and sediment yield models in rangeland, Rangeland Journal, The Scientific and Research Journal of Iranian Rangeland Management Society, 1(1):91-102.
- 34) **Sadeghi, S.H.R.**, Khaledi Darvishan, A.V. and Vafakhah, M., 2007. Study on channel hydraulic characteristics on morphometric variations of bed sediment, Journal of Hydraulics, Iranian Hydraulic Association, Spring 2007:1-10.
- 35) **Sadeghi, S.H.R.** and Abdollahi, V., 2007. Soil moisture variation in root zone of *Atriplex canescens*, The Scientific and Research Journal of Iranian Rangeland Management Society, 1(3):308-326.
- 36) **Sadeghi, S.H.R.**, Hajigholizadeh, M. and Vafakhah, M., 2007. Comparative evaluation of bridges and culverts effects on flood depth and extension in a reach of Tehran Kan River, Iran-Watershed Management Science and Engineering Journal, 1(1): 64-67.
- 37) **Sadeghi, S.H.R.**, Hajigholizadeh, M., Vafakhah, M. and Motiei, H., 2007. Role of drops on variation of inundation depth and area in a part of Kan River, Iran-Water Resources Research Journal, 3(1):84-91.
- 38) **Sadeghi, S.H.R.** and Ghazanfarpour, N., 2007. Comparative evaluation of temporal and spatial frequency distribution for rainfall erosivity in few Iranian Climatological Stations, Agricultural Science and Technology Journal, Ferdowsi University of Mashhad, 21(2):55-66.
- 39) **Sadeghi, S.H.R.**, Mozayyan, M. and Moradi, H.R., 2007. Development of hydrograph using rainfall different components in Kasilian Watershed, Journal of the Iranian Natural Resources, 60(1): 33-44.
- 40) **Sadeghi, S.H.R.**, Jalili, Kh. and Nikkami, D., 2007. Benefit maximization of land use in brimvand watershed using linear programming, Journal of the Iranian Natural Resources, 60(3): 773-784.
- 41) Vaezi, A.R., Bahrami, H.A. **Sadeghi, S.H.R.** and Mahdian M.H., 2007. Study of factors affecting erodibility based on the USLE in calcareous soils, Journal of Agricultural Science and Natural Resources, 14(5):55-66.
- 42) **Sadeghi, S.H.R.**, Khaledi Darvishan, A.V. and Vafakhah, M., 2007. Study on channel hydraulic characteristics on morphometric variations of bed sediment, Journal of Hydraulics, Iranian Hydraulic Association, Spring 2007:1-10.
- 43) **Sadeghi, S.H.R.** and Rahimzadeh, N., 2007. Study on amount of transpiration in some of rangeland species, Pazhohesh and Sazandegi, 76:186-192.
- 44) Vaezi, A.R., Bahrami, H.A. **Sadeghi, S.H.R.** and Mahdian M.H., 2007. Predicting soil erosion based on universal soil loss equation in dry farming lands of semi-arid regions in North West of Iran, Agricultural Research (Water, Soil and Plant in Agriculture), 7(2):13-24.
- 45) **Sadeghi, S.H.R.**, Shojaei, Gh.R. and Moradi, H.R., 2007. Impact of land use changes on sediment yield in Mandarijan Watershed, Agricultural Research, (Water, Soil and Plant in Agriculture), 7(4): 239-251.
- 46) **Sadeghi, S.H.R.**, Khaledi Darvishan, A.V., Vafakhah, M. and Gholami, L., 2008. Study on changes in morphometric characteristics of bed materials in downstream ward of Vaz River, Journal of the Iranian Natural Resources, 60(4): 1185-1189.
- 47) Vaezi, A. R., Bahrami, H., **Sadeghi, S.H.R.** and Mahdian, M. H. 2008. Effect of physicochemical properties on erodibility in calcareous soils. Iranian Journal of Soil and Waters Sciences, 22(1):59-68.
- 48) Vaezi, A. R., Bahrami, H., **Sadeghi, S.H.R.**, and Mahdian, M. H. 2008. Factors affecting runoff in dry farming lands of semi-arid region in North West of Iran. journal of Agricultural Science (University of Tabriz), 18(3):113-123.
- 49) Darvishan, A. K., **Sadeghi, S.H.R.**, Vafakhah, M. and Gholami, L. 2008. Recognition of effective physical characteristics of watershed on bed sediment morphometry (Case study: Vaz River). Iran Water Resources Research, 4(1): 75-78.
- 50) **Sadeghi, S.H.R.**, Pourghasemi, H.R., Mohammadi, M. and Agharazi, H.A., 2008. Applicability of rainfall and runoff variables in estimation of storm-wise sediment yield from experimental plots with different land uses, Agricultural Science and Technology Journal, Ferdowsi University of Mashhad, 22(1):113-122.



- 51) **Sadeghi, S.H.R.**, Gholami, L. and Khaledi Darvishan, A.V., 2008. Comparison of sediment delivery ratio estimation methods in chehelgazi watershed of gheslugh dam, Agricultural Science and Technology Journal, Ferdowsi University of Mashhad, 22(1):141-150.
- 52) Moradi, H.R., Fazelpor, M.R., **Sadeghi, S.H.R.** and Hosseini, S.Z., 2008. The study of land use change on desertification using remote sensing in Ardakan Area, Iranian Journal of Range and Desert Research, 15(1): 1-12.
- 53) **Sadeghi, S.H.R.**, Noor, H., Raeisi, M.B. and Saeidian, H., 2008. Efficiency of hillslope erosion model in rangeland plots in Khosbijan Area, Arak, Rangeland Journal, 2(3): 301-313.
- 54) Ghaderi Vangah, B., Safaeian, N.A. and **Sadeghi, S.H.R.**, 2008. The effect of alfalfa (*Medicago sativa*) sowing on some vegetation characteristics of natural rangelands, Pazhoesh –va-Sazandegi in Natural Resources, 79: 166-172.
- 55) Vaezi, A. R., Bahrami, H., **Sadeghi, S. H.R.** and Mahdian, M. H. (2008). Estimation of erodibility factor (K) using the RUSLE model in some soils of the semi-arid regions in northwest of Iran. Journal of Water and Soil Conservation (Journal of Agricultural Sciences and Natural Resources), 17(3):105-124.
- 56) **Sadeghi, S.H.R.**, Mahdavi, M. and Razavi, S.L., 2008. Importance of calibration of maximum storage index coefficient and curve number in SCS model in Amameh, Kasilian, Darjazin and Khanmirza Watersheds, Iran-Watershed Management Science and Engineering Journal, 2(4): 12-24.
- 57) Vaezi, A.R., **Sadeghi, S.H.R.**, Bahrami, H.A. and Mahdian M.H., 2008. Evaluating erosivity indices of the USLE, MUSLE, RUSLE, and USLE-M models in soils of a semi-arid region in Northwest of Iran. Iran-Watershed Management Science and Engineering Journal, 2(4): 25-37.
- 58) **Sadeghi, S.H.R.**, Khaledi Darvishan, A.V. and Gholami, L., 2008. Effects of sand and gravel mining on bed sediment morphometric characteristics, Journal of Iranian Association of Engineering Geology, 1(2): 75-86.
- 59) **Sadeghi, S.H.R.**, Ghaderi Vangah, B. and Safaeian, N.A., 2008. Comparison of water infiltration into the soil under open grazing and planted rangelands in North of Iran, Agricultural Research, (Water, Soil and Plant in Agriculture), 8(1):219-229.
- 60) Azari, M., **Sadeghi, S.H.R.** and Telvari, A.R., 2009. Contribution determination of Jaghargh subwatersheds in flood peak and runoff volume for flood control prioritization, Geography and Development, 12(2): 199-212.
- 61) **Sadeghi, S.H.R.**, Bashari Seghaleh, M. and Rangavar, A.S., 2009. Comparing role of slope aspect and plot length in storm wise soil erosion estimation, Journal of Water and Soil (Agricultural Science and Technology Journal, Ferdowsi University of Mashhad, 22(2):230-239.
- 62) Gholami, L., **Sadeghi, S.H.R.**, Khaledi Darvishan, A.V. and Telvari, A.R., 2009. Storm-wise sediment yield prediction using rainfall and runoff variables, Journal of Water and Soil (Agricultural Science and Technology Journal, Ferdowsi University of Mashhad, 22(2):263-271.
- 63) Vaezi, A.R., Bahrami, H.A. **Sadeghi, S.H.R.** and Mahdian M.H., 2009. Determining the estimating error of USLE erodibility factor in calcareous soils of Northwestern Iran, Journal of Water and Soil (Agricultural Science and Technology Journal, Ferdowsi University of Mashhad, 22(2):61-71.
- 64) **Sadeghi, S.H.R.**, Noor Mohammadi, F., Soufi, M. and Yasrebi, B., 2009. Estimation of storm-wise sediment yield from gully erosion using important rainfall components, Journal of Agricultural Sciences and Natural Resources (Special Issue on Natural Resources), 15(1): 172-180.
- 65) **Sadeghi, S.H.R.**, Hedayatizadeh, R., Naderi, H. and Hossein Alizadeh, M., 2009. Comparison of different quaternary formations in runoff and sediment yield in Sarchah Ammary Rangelands of Birjand, Rangeland, 2(4):449-463.
- 66) **Sadeghi, S.H.R.**, Gholami, L., Khaledi Darvishan, A.V. and Telvari, A.R., 2009. Analyzing sediment graph data in Chehelgazi Watershed of Gheslugh Dam, Iran-Water Resources Research, 4(3): 47-56.
- 67) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian M.H., 2009. Spatial variations of runoff in a part of calcareous soils of semi-arid region in Northwest of Iran. Journal of Agricultural Science and Natural Resources, 15(5):213-225.
- 68) **Sadeghi, S.H.R.**, Pourghasemi, H.R. and Mohammdi, M., 2009. Evaluation of accuracy and efficiency of USLE and some it's versions in estimation of storm-wise soil erosion and sediment



- yield (Case study: Khosbijann Natural Resources Research Station, Arak), Journal of Science and Technology of Agricultural and Natural Resources, 12(46A):323-335.
- 69) **Sadeghi, S.H.R.** and Saeidi, P., 2009. Suspended sediment: A suitable estimator for soil organic matter loss, Journal of Water and Soil (Agricultural Science and Technology Journal, Ferdowsi University of Mashhad, 23(1):221-228.
 - 70) Noor Mohammadi, F., **Sadeghi, S.H.R.**, Soufi, M. and Yasrebi, B., 2009. Assessment of relationship between important runoff parameters and gully erosion in darehshahr rangeland watershed, Rangeland, 3(3): 533-544.
 - 71) **Sadeghi, S.H.R.**, Yaghmaei, H. and Ghasempouri, S.M., 2009. Feasibility of suspended sediment estimation using water quality variables, Journal of Water and Soil (Agricultural Science and Technology Journal), Ferdowsi University of Mashhad, 23(3):168-175.
 - 72) **Sadeghi, S.H.R.** and Kiani Harchegani, M., 2009. Temporal and spatial variations in particle size distribution of suspended sediment in Kojour River, Iran-Watershed Management Science and Engineering Journal, 3(8):63-66.
 - 73) Izanloo, H., Moradi, H.R. and **Sadeghi, S.H.R.**, 2009. Comparison of temporal prioritizing of flooding in different hydrological periods (Case study: Kooshkabad Sub-Watersheds in Khorasan Razavi Province), Watershed Management Researches (Pazhohesh and Sazandegi), 82:21-30.
 - 74) Vaezi, A.R., **Sadeghi, S.H.R.**, Bahrami, H.A. and Mahdian M.H., 2009. Uncertainties in estimated erodibility (K) by using the USLE nomograph in calcareous soils of Hashtroud Township, NW Iran, Iran Water and Soil Research Journal (Iran Agricultural Science Journal), 40(1): 27-34.
 - 75) Vaezi, A.R., **Sadeghi, S.H.R.**, Bahrami, H.A. and Mahdian M.H., 2009. Temporal and spatial variations of soil loss under natural rainfall in the North West of Iran, Agricultural Engineering (Scientific Journal of Agriculture), 32(1): 87-100.
 - 76) Moatamednia, M. and **Sadeghi, S.H.R.**, 2009. Development and analysis of discharge rating curve for Kojour Educational Forest Watershed in different time scales, Iranian Journal of Watershed Management Science and Engineering, 3(9):17-26.
 - 77) Gholami, L., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2009. Modeling storm-wise sediment delivery ratio model in Chehelgazi Watershed by using climatic and hydrologic characteristics, Journal of Agricultural Science and Natural Resources, 16(2):253-260.
 - 78) Talebi, Sh., Azari Dehkordi, F., **Sadeghi, S.H.R.** and Soofbaf, S.R., 2009. Study on landscape degradation in Neka Watershed using landscape metrics, Environmental Science, 6(3):133-144.
 - 79) **Sadeghi, S.H.R.**, Noor Mohammadi, F., Soufi, M. and Yasrebi, B., 2009. Gullies' allometric models in darehshahr region, Ilam Province, Iran, Watershed Management Researches Journal (Pajouhesh and Sazandegi), 22(4):38-44.
 - 80) Ebrahimi Azandaryani, S. and **Sadeghi, S.H.R.**, 2009. Comparative study of transpiration and dry matter production in rangeland species of *Medicago sativa*, *Trifolium repens*, *Sanguisorba minor* and *Trifolium pratense*, Journal of Range and Watershed Management, Iranian Journal of Natural Resources, 62(2):167-174.
 - 81) Vaezi, A.R., **Sadeghi, S.H.R.**, Bahrami, H.A. and Mahdian M.H., 2010. A new nomograph for estimating erodibility factor (K) in some soils of the semiarid regions in Northwest of Iran, Journal of Water and Soil Science (J. Sci. and Technol. Agric. and Natur. Resour.), 13(49):69-80.
 - 82) Najafi, A., Solgi, A. and **Sadeghi, S.H.R.**, 2010. Effects of skid trail slope and ground skidding on soil disturbance, Caspian Journal of Environmental Science, 8(1): 13-23.
 - 83) Saeidi, P. and **Sadeghi, S.H.R.**, 2010. Study on relationship between flow discharge and organic matter existing in suspended sediment in Koujor Educational Forest Watershed, Iran-Water Resources Research, 6(1): 55-63.
 - 84) Salavati, B., **Sadeghi, S.H.R.** and Telvari, A.R., 2010. Runoff generation modeling for kurdistan province watersheds by using physiographic and climatic variables, Journal of Water and Soil (Agricultural Science and Technology Journal), Ferdowsi University of Mashhad, 24(1): 84-96.
 - 85) Raeisi, M.B., **Sadeghi, S.H.R.** and Noor, H., 2010. Accuracy of time-area method in sedimentgraph development in Kojour Watershed, Rangeland Journal, 4(1): 320-333.
 - 86) Moatamednia, M., **Sadeghi, S.H.R.**, Moradi, H.R. and Asadi, H., 2010. Evaluation of different modeling procedures in unit hydrograph-hyetograph relationship, Journal of Sci. and Technol. Agric. and Natur. Resour. (Water and Soil Science), 14(52):27-36.



- 87) Bashari Seghaleh, M., **Sadeghi, S.H.R.** and Rangavar, A.S., 2010. Determination of proper size of plots for runoff and sediment estimation from small watersheds in sanganeh watershed, Razavi Khorasan Province, Journal of Science and Technology of Agricultural and Natural Resources (Water and Soil Science), 14(52):39-47.
- 88) **Sadeghi, S.H.R.** and Asadi, H., 2010. Importance of travel time duration between isochrones in estimation of flood resulting from clark instantaneous unit hydrograph. Journal of Water and Soil, Ferdowsi University of Mashhad, 24(4):625-635.
- 89) Asadi, H., Moradi, H.R., Telvari, A.R. and **Sadeghi, S.H.R.**, 2010. Performance evaluation of estimation methods of storage coefficient of Clark's instantaneous unit hydrograph in simulation of flood unit hydrograph, Journal of Sci. and Technol. Agric. and Natur. Resour. (Water and Soil Science), 14(53):41-50.
- 90) Fazli, S., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2010. Rainfall-runoff-sediment modeling, Iranian Journal of Watershed Management Science and Engineering, 4(11):41-44.
- 91) Saeidi, P. and **Sadeghi, S.H.R.**, 2010. Analysis of observed sedimentgraphs and rating loops on storm basis in Educational Watershed of Tarbiat Modares University, Iran, Journal of Water and Soil Conservation (Journal of Agricultural Sciences and Natural Resources), 17(1):97-112.
- 92) **Sadeghi, S.H.R.**, Mohammadpour, K. and Dianati Tilaki, Gh.A., 2010. Sediment yield variability in free grazing and short term exclosure treatments in Kodir Summer Rangeland, Rangeland, 4(3):484-493.
- 93) Khaledi Darvishan, A.V., **Sadeghi, S.H.R.**, Gholami, L. and Telvari, A.R., 2010. Comparison of USLE different versions in Chehelgazi Watershed in Kordistan Province, Iran, Journal of Watershed Management, 1(1):30-43.
- 94) Tavassoli, A., **Sadeghi, S.H.R.** and Moradi, H.R., 2010. Simulating intra-storm variation of runoff coefficient using precipitation components for Neyshabour Bar Watershed, Iran, Iranian Journal of Watershed Management Science and Engineering, 4(10):21-33.
- 95) **Sadeghi, S.H.R.**, Afzali, Vafakhah, M. and Telvari, A.R., 2010. Development of synthetic unit hydrograph for Northern Iranian Watersheds using physiographical characteristics, Watershed Management Researches Journal (Pajouhesh and Sazandegi), 23(1):15-23.
- 96) **Sadeghi, S.H.R.**, Shojaee, Gh. R. and Moradi, H.R., 2010. Relationship between land use and soil erosion in Manderijan Catchment in Zayandehrud Dam Basin. Journal of Watershed Engineering and Management, 2(3):143-149.
- 97) Mohammadpour, K., **Sadeghi, S.H.R.**, Dianati Tilaki, Gh.A., 2010. Comparing infiltration and runoff values and microrelief in small plots installed in open grazing and short term exclosure treatments, Water and Soil, 24(6): 1109-1118.
- 98) Dehghani, M., Karami Khaniki and **Sadeghi, S.H.R.**, 2011. Study on efficiency of time-area method and instantaneous unit hydrograph in flood estimation, Journal of Watershed Engineering and Management, 3(3):159-167.
- 99) Kiani Harchegni, and **Sadeghi, S.H.R.**, 2011. Particle size characteristics of suspended sediment transported in river base and flood flows, Water and Wastewater, 1390(1): 114-117.
- 100) Vaezi, A.R. and **Sadeghi, S.H.R.**, 2011. Capability of the SCS-CN method in estimation Runoff in dry-farming lands of a demi-arid region in the North West of Iran, Iranian Journal of Watershed Management Science and Engineering, 5(14):11-22.
- 101) Sadeghi, S.H., Mousavi, S.F., Gheysari, M. and **Sadeghi, S.H.R.**, 2011. Evaluation of the christiansen method for calculation of friction head loss in horizontal sprinkler laterals: effect of variable outflow in outlets, IJST, Transaction of Civil Engineering, 32 (C2): 233-245.
- 102) Khazaei, M., **Sadeghi, S.H.R.** and Mirnia, S.Kh., 2011. Hydrological effects of forest surface disturbance, Iranian Journal of Forest, 3(2):145-155.
- 103) **Sadeghi, S.H.R.**, Noor Mohammadi, F., Soufi, M. and Boor, S., 2011. Assessment of affective factors on gully erosion in a part of Ilam Province, Iran, Journal of Watershed Management, 2(3):95-108.
- 104) Khaledi Darvishan, A.V., **Sadeghi, S.H.R.** and Gholami, L., 2011. Effects of different land uses on morphometric characteristics of bed sediments (Case study: vazrood river), Soil and Water Research Journal of Tabriz University, 21(4):139-151.



- 105) Noor, H. and **Sadeghi, S.H.R.**, 2011. Instantaneous unit sediment graph modeling, Iran-Water Resources Research Journal, 7(4):62-70.
- 106) Gholami Gohareh, R., **Sadeghi, S.H.R.**, Mirnia, S.Kh. and Soleimankhani, Z., 2011. Effects of light firing on infiltration, runoff and sediment in rangeland in Kodir Area, Iran, Iranian Journal of Watershed Management Science and Engineering, 5(17):23-32.
- 107) Fazli, S., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2011. Studying storm sediment graphs in Khamsan Representative Watershed, Iranian Water Research Journal, 5(8): 217-221.
- 108) **Sadeghi, S.H.R.**, Fazli, S., Noor, H., and Agharazi, H. A., 2011. Ability of Hillslope Erosion Model (HEM) in prediction of storm-wise sediment yield from standard erosion in rangeland plots with different slope steepness, Journal of Rangeland, 5(1):119-127.
- 109) Bakhshi, T. M., Moradi, H. R. and **Sadeghi, S.H.R.**, 2011. Comparison of runoff generation and sediment yield in two land uses of range and dry farming, Iranian Journal of Range and Desert Research, 18(2):269-279.
- 110) **Sadeghi, S.H.R.**, Zarif Moazam, M.S. and Mirnia, S.Kh., 2011. Effect of slope steepness and aspect on surface runoff and sediment yield from experimental small plots in Kojour Watershed, Journal of Water and Soil, 25(3):583-592.
- 111) **Sadeghi, S.H.R.**, Moatamednia, M. and Moradi, H.R., 2011. Estimation of unit hydrograph components using relationship between characteristics of available hyetographs and hydrographs in Kasilian representative watershed. Watershed Management Research, 24 (3): 44-52.
- 112) Khaledi Darvishan, A., **Sadeghi, S.H.R.** and Gholami, L., 2011. Simulation feasibility of sediment graphs, using time-area model. Watershed Management Research, 24(3):53-64.
- 113) **Sadeghi, S.H.R.**, Noor, H., Fazli, S. and Raeisi, M.B., 2012. Storm-wise sediment yield prediction using rainfall and runoff variables in Educational and Research Watershed of Tarbiat Modares University, Soil and Water Research Journal of Tabriz University, 21(2):150-158.
- 114) Azari, M., **Sadeghi, S.H.R.** and Telvari, A.R., 2012. Assessment of flood control measures by using HEC-HMS and HEC-RAS models in GIS environment (Case study: Jaghargh Watershed), Iranian Journal of Watershed Management Science and Engineering, 5(15):69-72.
- 115) Gholami, L., and Khaledi Darvishan, A.V., 2012. Evaluation of the most appropriate time basis of rain intensity in determination of storm suspended sediment, Iranian Journal of Watershed Management Science and Engineering, 6(18):17-22.
- 116) **Sadeghi, S.H.R.**, Afzali, A., Vafakhah, M. and Telvari, A.R., 2012. Capability of various statistical analyses in estimation of unit hydrograph components for Northern Watersheds of Iran, Journal of Watershed Management Research, 3(5):1-15.
- 117) Asadi, H., Moradi, H.R. and **Sadeghi, S.H.R.**, 2012. Evaluation of instantaneous unit hydrograph in flood estimation in Kassilian Watershed, Journal of Watershed Engineering and Management, 4(1):12-20.
- 118) Bashari, M., **Sadeghi, S.H.R.** and Rangavar, A.S. 2012. Comparison of sediment yield at two north and south facing slope using small plots, Watershed Management and Engineering Journal, 4(3): 134-140.
- 119) Yaghmaee, H., **Sadeghi, S.H.R.** and Ghasempouri, S.M., 2012. Controlling effects of flow discharge on some qualitative variables of water, Iran-Water Resources Research, 8(2): 87-92.
- 120) **Sadeghi, S.H.R.** and Saeidi, P., 2012. Changeability of suspended sediment and particulate organic matter relationship in seasonal, monthly and storm scales. Iranian Water Research Journal, 6(10):21-28.
- 121) Gholami, L., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2012. Storm-wise rating loops in Chehelgazi Watershed of Gheshlagh Dam. Iranian Water Research Journal, 6(10):29-36.
- 122) Behzadfar, M., **Sadeghi, S.H.R.**, Khangani, M.J. and Hazbavi, Z., 2012. Effectability of runoff and sediment yield from soils induced by freezing and thawing cycle under simulated rainfall condition, Water and Soil Resources Conservation Journal, 2(1):13-24.
- 123) Ebrahimi Mohammadi, Sh., **Sadeghi, S.H.R.** and Chapi, K., 2012. Determination and analysis of runoff, suspended sediment and nutrient yield from different Tributaries to the Zarivar Lake in event and base flows, Water and Soil Resources Conservation Journal, 2(1):61-74.



- 124) Razaghian, H. and **Sadeghi, S.H.R.**, 2013. Estimation of the effective time of antecedent precipitation on output discharge of tangrah pasture watershed, *Journal of Watershed Management Research*, 3(6):93-103.
- 125) Moradi, H.R., Bakhshi Tiregani, M. and **Sadeghi, S.H.R.**, 2013. Study on seasonal variability of sediment production and affecting soil factors in rangeland, *Journal of Science and Technology of Agricultural and Natural Resources (Water and Soil Science)*, 16(62):137-146.
- 126) Hazbavi, Z., **Sadeghi, S.H.R.** and Younesi, H.A., 2013. Analysis and assessing effectability of runoff components from different levels of polyacrylamide, *Water and Soil Resources Conservation Journal*, 2(2):1-13.
- 127) **Sadeghi, S.H.R.** and Kiani Harchegani, H.M., 2013. Changeability of the relationship between the flow competence and the suspended sediment particle size distribution in the Kojour River, *Water Engineering*, 5(14):41-49.
- 128) Khazayi, M., **Sadeghi, S.H.R.**, Mirnia, S. and Yazdani, M.Y., 2013. Effect of deforestation on soil nutrient loss and sediment in forested watersheds Kojour: a case study (Education and Research Forest Watershed). *Natural Ecosystems of Iran*, 3(2):1-12.
- 129) Kiani Harchegani, M. and **Sadeghi, S.H.R.**, 2013. Spatial variations of relationship between heavy metals transportation and particle size distribution of suspended sediments. *Water and Soil Conservation*, 20(1):169-184.
- 130) **Sadeghi, S.H.R.** and Gharemahmudli, S., 2013. Investigating bed sediment granulometry precision based on image processing of cameras with different resolutions, *Journal of Watershed Engineering and Management*, 5(2):115-124.
- 131) Khazaei, M., **Sadeghi, S.H.R.** and Mirnia, S.Kh., 2013. Application of artificial neural network and regression models in sediment yield in plots located in disturbed and undisturbed plots in Educational and Research Forest Watershed of Tarbiat Modares University, Iran, *Iranian Journal of Watershed Management Science and Engineering*, 7(21): 11-19.
- 132) Yasrebi, B., Noor Mohammadi, F., **Sadeghi, S.H.R.** and Soufi, M., 2013. Effect of topographic factors on gully initiation (Case study: Dareshahr Area-Ilam Province), *Iranian Journal of Watershed Management Science and Engineering*, 7(21): 53-58.
- 133) Kheirfam, H., Mostafazadeh, R. and **Sadeghi, S.H.R.**, 2013. Daily discharge prediction by using IHACRES model in some watersheds of Golestan Province. *Journal of Watershed Management Research*, 4(7): 114-126.
- 134) Najafi, S. and **Sadeghi, S.H.R.**, 2013. Estimation of sediment sources through comparing results from soil erosion mapping, fingerprinting and field measurement techniques, *Journal of Watershed Engineering and Management*, 5(3):166-179.
- 135) **Sadeghi, S.H.R.**, Hazbavi, Z., Younesi, H.A. and Behzadfar, M., 2013. Trend of soil loss and sediment concentration changeability due to application of polyacrylamide, *Water and Soil Resources Conservation Journal*, 2(4):56-70.
- 136) Khazaei, M., **Sadeghi, S.H.R.**, Beroghani, M. and Asadolahi, Z., 2013. Evaluation of level and affecting factors on villagers, participation in implementation of watershed management measures, *Journal of Natural Resources and Sustainable Development*, 2(3): 3-16.
- 137) Abdolahi, Z., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2013. Designing, manufacturing and testing rainfall simulator nozzles *Journal of Water and Soil Conservation*, 20(6):67-86.
- 138) Zakeri, M.A. and **Sadeghi, S.H.R.**, 2013. Temporal and spatial variation of suspended Sediment concentration at downstream of a sand mine, *Journal of Environmental Erosion Researches*, 3(11): 55-63.
- 139) Soleimankhani, Z., **Sadeghi, S.H.R.**, Mirnia, S.Kh. and Gholami Gohareh, R., 2014. Comparison of intra and inter variations of runoff and sediment in plots installed in range and reclaimed forest land uses, *Iranian Water Research Journal*, 7(13):11-19.
- 140) **Sadeghi, S.H.R.** and Zakeri, M.A., 2014. Suspended sediment particle size distribution in Kojour River, *Water and Soil Resources Conservation Journal*, 3(2):573-82.
- 141) **Sadeghi, S.H.R.**, Gharemahmudli, S. and Khaledi Darvishan, A.V., 2014. Variability of amount and particle size distribution and morphometric characteristics of bed loads due to sand and gravel mining, *Water and Soil*, 28(1):203-218.



- 142) **Sadeghi, S.H.R.**, Sharifi Moghadam, E. and Gholami, L., 2014. Effect of rice straw on surface runoff and soil loss in small plots, *Water and Soil Resources Conservation Journal*, 3(5):73-82.
- 143) **Sadeghi, S.H.R.**, Gharemahmudli, S., Khaledi Darvishan, A.V., Kheirfam. H., Kiani Harchegani, M. and Saeidi, P., 2014. Effect of river sand and gravel mining on monthly changeability of suspended sediment concentration. *Water and Soil Resources Conservation Journal*, 3(3):66-77.
- 144) Sharifi Moghadam, E., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2014. Effectability of runoff and sediment components in small plots from application of vinasse organic residue, *Iranian Journal of Water and Soil Researches*, 45(4): 499-508.
- 145) Asadollahi, Z., Vafakhah. M. and **Sadeghi, S.H.R.**, 2014. Developing models of daily Sediment yield estimation for Kojour Forest Watershed. *Journal of Range and Watershed Management*, 67(1): 1-15.
- 146) **Sadeghi, S.H.R.**, Moatamednia, M. and Moradi, H.R., 2014. Variability of main unit hydrograph components of Kasilian Watershed in different effective precipitation time bases, *Journal of Water and Soil Conservation*, 21(4):247-260.
- 147) Kheirfam. H. and **Sadeghi, S.H.R.**, 2014. Effect of sand and gravel mining on among of sediment load and bed load granulometry in Kojour River, *Iran-Watershed Management Science and Engineering*, 8(26):27-34.
- 148) Fakher Nikche, A., **Sadeghi, S.H.R.** and Vafakhah, M., 2014. Efficiency evaluation of different infiltration models in different land uses and soil classes using rainfall simulator. *Water and Soil Science*, 24(1): 183-193.
- 149) Gholami, L., **Sadeghi, S.H.R.** and Homaeae, M., 2015. Effect of rice straw mulch on runoff threshold and coefficient from rainfall. *Iranian Water Research Journal*, 8(15): 33-40.
- 150) Mostafazadeh, R., **Sadeghi, S.H.R.** and Sadoddin, A., 2015. Analysis of storm-wise sedimentgraphs and rating loops in Galazchai Watershed, West-Azerbaijan, *Journal of Water and Soil Conservation*, 21(5): 175-191.
- 151) **Sadeghi, S.H.R.**, Zarif Moazam, M.S. and Mirnia, S.Kh., 2015. Analysis of temporal variation of hydrological processes in experimental small plots in a forest watershed, *Journal of Water and Soil Conservation*, 21(6): 207-222.
- 152) **Sadeghi, S.H.R.** and Gharemahmudli, S., 2015. Granulometric variation of river suspended sediments due to sand and gravel mining (case study: Vaz River), *Water and Soil Resources Conservation Journal*, 4(2):15-21.
- 153) Moradi, H. R., Asadi, H., **Sadeghi, S.H.R.** and Telvari, A., 2015. Evaluation of time-area accuracy in developing IUH. *Journal of Range and Watershed Management*, 68(3): 647-656.
- 154) **Sadeghi, S.H.R.**, Mostafazadeh, R. and Sadoddin, A., 2015. Response of sedimentgraphs and sediment rating loops to land use type and spatial pattern. *Journal of Watershed Engineering and Management*, 7(1): 15-26.
- 155) Mahammadi, S., Homaeae, M. and **Sadeghi, S.H.R.**, 2015. Runoff generation in kerosene and gas oil contaminated soils, *Iranian Journal of Water and Soil Researches*, 46(1): 121-131.
- 156) **Sadeghi, S.H.R.**, Karimi, Z. and Bahrami, H.A. 2015. Impact of application type and use level of polyacrylamide on soil loss, *Water and Soil Resources Conservation Journal*, 4(3):29-37.
- 157) **Sadeghi, S.H.R.**, Kiani Harchegani, M. and Saeidi, P., 2015. Temporal and spatial variations of relationship between suspended sediment concentration and some of contaminants of Zayandeh-Rud River, *Water Resources Engineering Journal*, 8(3): 97-108.
- 158) Vahidi, M.J., Jafarzadeh, A.A., Fakhriefard, A., **Sadeghi, S.H.R.**, Rezaei-Moghaddam, M.H. and Valizadeh Kamran, Kh., 2015. Study of land use and land cover change in lighvan watershed, East Azerbaijan Province, *Journal of Geographic Space*, 15(49): 75-100.
- 159) **Sadeghi, S.H.R.**, Ebrahimi Mohammadi, Sh. and Chapi, K., 2015. Analysis of intra-storm suspended sediment delivery processes from different tributaries to the Lake Zarivar using hysteresis patterns, *Iranian Journal of Natural Resources*, 68(2): 323-340.
- 160) **Sadeghi, S.H.R.**, Hashemi Ariyai, Z. and Karimi, Z., 2015. Runoff generation and soil loss control using combined application of vermicompost and vinasse, *Water Recycling*, 2(1):81-91.



- 161) Karimi, Z., **Sadeghi, S.H.R.** and Bahrami, H.A., 2015. Runoff variability during rainfall event due to powder and solute application of different levels of Polyacrylamide, Iranian Journal of Water and Soil Researches (Agricultural Sciences), 46(3):443-453.
- 162) **Sadeghi, S.H.R.**, Raeisi, M.B. and Hazbavi, Z., 2015. Effects of polyacrylamide in controlling of Splash erosion from a soil induced freeze-thaw cycle, Journal of Water and Soil, 29(6): 1601-1611.
- 163) Davudirad, A.A., **Sadeghi, S.H.R.** and Sadoddin, A., 2015. Monitoring temporal and spatial changes in land use in the Shazand Watershed, Iranian Journal of Ecohydrology, 2(4):405-415.
- 164) Mostafazadeh, R., **Sadeghi, S.H.R.** and Sadoddin, A., 2015. Modelling effects of land use type and spatial pattern on flow hydrograph variations. Iran-Watershed Management Science and Engineering, 9(31):51-58.
- 165) Zabihi, M., **Sadeghi, S.H.R.** and Vafakhah, M., 2016. Spatial analysis of rainfall erosivity index patterns at different time scales in Iran, Journal of Watershed Engineering and Management, 7(4):442-457.
- 166) Kiani Harchegani, M., **Sadeghi, S.H.R.** and Asadi, H., 2016. Comparative analysis of effect of rainfall intensity and experimental plot slope on raindrop impact induced erosion (RIIE), Journal of Water and Soil Researches (Agricultural Sciences), 46(4):631-640.
- 167) Davoudi Moghaddam, D., **Sadeghi, S.H.R.** and Azamy Rad, M., 2016. Comparison of surface runoff generation, and soil and nutrient loss in Kakhk Treated and Representative Watersheds, Khorasan Razavi Province, Journal of Water and Soil, 30(3): 920-929.
- 168) Saeidi, P., **Sadeghi, S.H.R.** and Telvari, A.R., 2016. Simulation of sediment graph using hydrograph. Journal of Watershed Engineering and Management, 8(1):125-138.
- 169) Zabihi, M., **Sadeghi, S.H.R.** and Vafakhah, M., 2016. Optimum frequency distributions of rainfall erosivity factor in Iran, Journal of Water and Soil Conservation, 23(1): 301-306.
- 170) Kheirfam, H., Zarei Darki, B., **Sadeghi, S.H.R.** and Homae, M., 2016. Identification and proliferation of soil microorganisms with capability in applying for soil and water conservation, Journal of Agroecology, 6(1):213-226.
- 171) Abdollahi, Z., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2016. Variation of simulated rainfall characteristics by permuting intake discharge and water pressure, Journal of Watershed Engineering and Management, 10(34):51-62.
- 172) Zarif Moazam, M.S., **Sadeghi, S.H.R.** and Mirnia, S.Kh., 2016. Variability of interactions between some soil properties and runoff generation time (Case study: Kojoor Watershed), Journal of Watershed Management Research, 7(13):1-11.
- 173) Khaledi Darvishan, A.V., Homayoonfar, V. and **Sadeghi, S.H.R.**, 2016. Designing, construction and calibration of a portable rainfall simulator for field runoff and soil erosion studies, Journal of Watershed Engineering and Management, 10(34):105-112.
- 174) **Sadeghi, S.H.R.**, Kazemi Kia, Somayeh, Kheirfam, H. and Hazbavi, Zeinab, 2016. Experiences and consequences of inter-basin water transfer worldwide. Iran-Water Resources Research, 12(2):120-140.
- 175) Mohammadi Golrang, B., See, L.F. and **Sadeghi, S.H.R.**, 2016. Evaluation of relationship between independent variable of awareness of soil conservation and watershed management with public precipitation in watersheds towards rural development, Geography and Development, 44: 189-208.
- 176) Asadi, H., Moradi, H.R. and **Sadeghi, S.H.R.**, 2016. The Effect of storage coefficient in flood routing, A case study of Kasilian Watershed, Mazandaran Province, International Bulletin of Water Resources and Development, 4(13): 23-33.
- 177) Homayoonfar, V., Khaledi, D. A. and **Sadeghi, S.H.R.**, 2016. Effects of soil preparation for laboratorial erosion studies on surface runoff. Journal of Watershed Management Research, 7(14):60-68.
- 178) Kiani Harchegani, H. M., Kiani Harchegani, H. S. and **Sadeghi, S.H.R.**, 2016. Analysis of spatial and temporal variation in water quality in Karoon Basin using multivariate statistical techniques, Iranian of Irrigation & Water Engineering, 6(23):34-48.
- 179) **Sadeghi, S.H.R.**, Kiani Harchegani, M. and Asadi, H., 2017. Splash particle size distribution along the experimental flume under different rainfall intensities and slopes. Journal of Water and Soil Researches (Agricultural Sciences), 47(4):657-664.



- 180) **Sadeghi, S.H.R.**, Kheirfam, H., Homaei, M. and Zarei Darki, B., 2017. Improvability of water infiltration in an erosion-prone soils under laboratorial conditions through artificial increasing of soil microorganisms population, *Journal of Water and Soil Researches (Agricultural Sciences)*, 47(4):797-805.
- 181) **Sadeghi, S.H.R.**, Karimi, Z. and Hashemi Ariyan, Z., 2017. Effect of combined application of polyacrylamide and vermicompost on runoff and soil erosion control, *Journal of Watershed Engineering and Management*, 9(1): 1-10.
- 182) Kiani Harchegani M., **Sadeghi, S.H.R.** and Asadi, H., 2017. Inter-storm variability of runoff volume and soil loss coefficient of variation in different replicate at rainfall and erosion simulation, *Iranian Journal of Ecohydrology*, 4(1):191-199.
- 183) Kheirfam, H. and **Sadeghi, S.H.R.**, 2017. Design, fabrication and evaluation of a simple and precise river bed load sampler. *Journal of Watershed Engineering and Management*, 9(2): 133-139.
- 184) Kiani Harchegani, M., **Sadeghi, S.H.R.** and Asadi, H., 2017. Changeability of concentration and particle size distribution of effective sediment in initial and mature flow generation conditions under Different Slops and Rainfall Intensities. *Journal of Watershed Engineering and Management*, 9(2): 205-216.
- 185) Saeidi, P., **Sadeghi, S.H.R.** and Telvari, A.R., 2017. Dynamics of sediment hysteresis patterns during storm events, *Journal of Range and Watershed Management*, 70(1):125-138.
- 186) Kheirfam, H., Homaei, M. **Sadeghi, S.H.R.** and Zarei Darki, B., 2017. Role of biological soil crusts enrichment through bacteria inoculation and stimulation of nitrogen increasing in an erosion-prone soil, *Journal of Water and Soil*, 31(2): 545-556.
- 187) Kiani Harchegani, M., **Sadeghi, S.H.R.** and Asadi, H., 2017. Inter-storm variability of coefficient of variation of runoff volume and soil loss during rainfall and erosion simulation replicates. *Iranian Journal of Ecohydrology*, 4(3): 837-846.
- 188) Najafi, S., **Sadeghi, S.H.R.** and Heckmann, T., 2017. Temporospatial variations of structural sediment connectivity patterns in Taham-Chi Watershed in Zanjan Province, Iran. *Journal of Water and Soil Conservation*, 24(3): 131-147.
- 189) **Sadeghi, S.H.R.**, Davudi Rad, A.A., Sadoddin, A. and Paimozd, Sh., 2017. Trend of changes in land degradation index in Shazand Watershed, Markazi Province. *Watershed Engineering and Management*, 9(4): 383-397.
- 190) **Sadeghi, S.H.R.**, Zabihi, M. and Vafakhah, M., 2017. Effect of data length, study span and number of stations on amount of rainfall erosivity factor variability in different time scales in Iran, *Journal of Range and Watershed Management*, 70(2): 399-409.
- 191) Mousavifar1, S.S., **Sadeghi, S.H.R.** and Bahramifar, N., 2017. Effects of individual and combined application of vermicompost and silica nano particles on soil infiltration. *Water and Soil Resources Conservation Journal*, 7(1): 49-59.
- 192) **Sadeghi, S.H.R.**, Ghavimi Panah, M.H. and Younesi, H.A., 2017. Feasibility of reducing soil loss using biochar produced from dairy factory waste. *Journal of Water and Soil Conservation*, 24(4): 211-226.
- 193) Kiani-Harchegani, M. and **Sadeghi, S.H.R.**, 2017. Effects of consecutive storms on splash erosion components for two different rainfall intensities under laboratory conditions. *Iranian journal of Ecohydrology*, 4(3): 837-846.
- 194) Gholami, L., **Sadeghi, S.H.R.** and Homaei, M., 2018. Effect of Soil amendments on hydrograph and sediment graph changes in the laboratory conditions. *Journal of Watershed Management Research*, 8(16):100-112.
- 195) **Sadeghi, S.H.R.**, Saeidi, P. and Telvari, A.R., 2018. Contribution of wash and channel sediment Sources in supplying storm suspended sediment load in Galazchai Watershed. *Water Resources Engineering Journal*, 10: 17-26.
- 196) **Sadeghi, S.H.R.**, Hashemi Ariyan, Z., Vafakhah, M. and Karimi, Z., 2018. Comparison of spatial variations of soil erosion at Gonbad Representative and Treated Watersheds in Hamadan Province. *Journal of Range and Watershed Management*, 71(2): 405-417.
- 197) Ghavimi Panah, M.H., **Sadeghi, S.H.R.** and Younesi, H.A., 2018. Role of superficial biochar mulch produced from dairy factory waste on infiltration and runoff in small experimental plots. *Journal of Water and Soil Researches (Agricultural Sciences)*, 48(4): 905-916.



- 198) Kiani Harchegani, M., Saeidi, P. and **Sadeghi, S.H.R.**, 2018. Analysis of sediment rating loops of interrill erosion in consecutive storm events under laboratory conditions. *Journal of Water and Soil Researches (Agricultural Sciences)*, 49(2):293-302.
- 199) Najafi, S., **Sadeghi, S.H.R.** and Heckmann, T., 2018. Analyzing structural sediment connectivity pattern in Taham Watershed, Iran. *Watershed Engineering and Management*, 10(2):192-203.
- 200) Kheirfam, H., **Sadeghi, S.H.R.**, Zarei Darki, B. and Homaei, M., 2018. Reducing soil and water loss through stimulation of soil bacteria in experimental small plots. *Journal of Water and Soil Conservation*, 25 (4): 243-257.
- 201) **Sadeghi, S.H.R.** and Zabihi, M., 2019. Trend analysis of modified fournier erosivity and standardized precipitation indices variations in North-Khorasan Province, Iran. *Journal of Watershed Engineering and Management*, 10(4):506-511.
- 202) Kiani-Harchegani, M., **Sadeghi, S.H.R.** and Falahatkar, S., 2019. Comparative analysis of Soil erodibility factor in Shazand Watershed. *Iranian Journal of Ecohydrology*, 6(1):153-163.
- 203) Ebrahimi Mohammadi, Sh., **Sadeghi, S.H.R.** and Chapi, K., 2019. Impact of hydrological oscillations on the concentration of nutrients in Zarivar Lake streams. *Journal of Watershed Engineering and Management*, 11(2):359-380.
- 204) **Sadeghi, S.H.R.**, Hazbavi, Z. and Gholamalifard, M., 2019. Zonation of health dynamism for the Shazand Watershed based on low and high flow discharges. *Journal of Watershed Engineering and Management*, 11(3):589-608.
- 205) Kiani-Harchegani, M. and **Sadeghi, S.H.R.** 2020. Soil quality analysis of the Shazand Watershed Ecosystem. *Iranian Journal of Soil and Water Researches*, 50 (8): 1843-1854.
- 206) **Sadeghi, S.H.R.**, Chogan, B., Savadkouhi, A., Esmaeilzadeh, M., Jafarpoor, A., Kolehhouei, M. 2020. Comparison of distribution of precipitation in *Quercus castanifolia*, *Ulmus glabra* and *Parotica percica* forest types. *Ecohydrology*, 7(2):383-396.
- 207) Zare, S., **Sadeghi, S.H.R.** and Khosravani, A., 2020. Effectability of runoff generation and soil loss from application of residual fine amendments in small experimental plots. *Journal of Water and Soil Conservation*, 27(2): 195-207.
- 208) Zabihi Silabi, M., **Sadeghi, S.H.R.** and Mostafazadeh, R., 2020. Comparison of FAO, USDA, and FRWMO methods in preparation of land capability map of Oshnavieh Galazchai Watershed, Iran. *Journal of Water and Soil Resources Conservation*, 9(4): 71-87.
- 209) Gharemahmudli, S., Najafinejad, A., **Sadeghi, S.H.R.**, Zarei Darki, B., Mohammadian Behbahani, A. and Kheirfam, H., 2020. Reducing surface runoff from soils subjected to a freezing-thawing cycle using soil cyanobacteria. *Journal of Water and Soil Conservation*, 27(3): 163-180.
- 210) Hatefi, M., **Sadeghi, S.H.R.**, Erfanzadeh, R. and Behzadfar, M., 2020. Laboratory study of Vegetation cover impact on runoff generation in small plots under freezing and thawing cycle. *Journal of Water and Soil*, 34(4): 755-764.
- 211) **Sadeghi, S.H.R.**, Mirchooli, F., Hazbavi, Z., Khaledi, D. A., and Khorsand, M. 2020. Comparative application of optic scanner, rillmeter and paraffin methods in rill erosion measurement. *Journal of Watershed Engineering and Management*, 12(1):125-136.
- 212) Vaezi, A.R., Rostami, K. and **Sadeghi, S.H.R.**, 2021. Investigation on the effectiveness of gabion check dams in amount and grain size of sedimentation in the Razin Watershed, West of Iran. *Journal of Water and Soil Conservation*, 27(5): 201-216.
- 213) Hatefi, M. and **Sadeghi, S.H.R.**, 2021. Perspective zoning of Iran provinces based on water stress, flood, drought and rainfall erosivity indices. *Journal of Watershed Engineering and Management*, 13(1): 213-221.
- 214) Nasiri Khiavi, A., Vafakhah, M. and **Sadeghi, S.H.R.**, 2021. The impressibility of flood regime from rainfall and land use changes in Cheshmeh Kileh Watershed. *Iranian Ecohydrology*, 8(1): 221-234.
- 215) **Sadeghi, S.H.R.**, Jafarpoor, A., Zabihi Silabi, M., Molashahi, Sh., Naghdi, M., Sharifi Moghani, M., Ghysoori, Z. and Farzadfar, E., 2021. Biologic management framework of soil erosion in the watershed (Applied study: Oshnavieh Galazchai, West Azerbaijan, Iran). *Iranian Journal of Soil and Water Research*, 52(4): 997-1010.



- 216) **Sadeghi, S.H.R.**, Khaledi Darvishan, A., Vafakhah, M., Moradi Rekabdarkolaei, H.R., Nasiri Khiavi, A., Rajabi, M.R., Miari Rostami, S., Pournabi, S., Ebrahimi Gatekesh, Z. and Zaki, S.A. 2021. Iran integrated and problem-based management of the watershed using strategic planning framework. *Iran-Watershed Management Science & Engineering*, 15(52): 63-66.
- 217) **Sadeghi, S.H.R.**, Jafarpoor, A., Farajolah, M., Khatibi Roodbarsara, D., Moradi Sefidcheghayi, M., Zabihi Silabi, M., Khosravi, M., Kolani, E.A., Mohammedi, B., Adibi, M.J. and Azarniya, H., 2021. Biological management of soil erosion (Case study: Gavoshan Watershed, Kermanshah Province, Iran). *Journal of Water and Soil*, 35(4): 551-566.
- 218) Khaledi Darvishan, A.V., **Sadeghi, S.H.R.**, Homaei, M. and Arabkhedri, M., 2021. Sediment budgeting in laboratory plots under rainfall simulation. *Watershed Management Research*, 34(2): 15-31.
- 219) Zabihi Silabi, M., **Sadeghi, S.H.R.** and Mostafazadeh, R., 2021. Effects of the implementing land use-based scenarios in the prioritized sub-watersheds on soil erosion and sediment yield of the Glazchai Watershed, Oshnavieh, Iran. *Degradation and Rehabilitation of Natural Land*, 2(3), 88-99.
- 220) Rostami, K., **Sadeghi, S.H.R.** and Vaezi, A., 2022. The effect of gabion and masonry check dams on aggregation of deposited sediments in Razin Watershed, Kermanshah, Iran. *Iranian Journal of Watershed Management Science and Engineering*, 15(55): 22-30.
- 221) Chamani, R., **Sadeghi, S.H.R.**, Vafakhah, M. and Naghdi, M., 2022. Reliability, resilience, and vulnerability of Chalous Watershed based on drought index. *Journal of Watershed Engineering and Management*, 14(1): 65-75. DOI: 10.22092/ijwms.2021.352600.1855.
- 222) Ebrahimi Gatkash, Z. and **Sadeghi, S.H.R.**, 2022. Combined application of pressure-state-response and strategic planning approaches in integrated and problem-oriented management of the Mikhsaz Watershed in Western Mazandaran, Iran. *Journal of Water and Soil Resources Conservation*, 11(3), 89-109.
- 223) **Sadeghi, S.H.R.** and Gharemahmoodli, S. 2022. An overview of amendments used in soil and water conservation in Iran. *Journal of Water and Soil Conservation*, 29(1):1-30. DOI: 10.22069/jwsc.2022.20253.3559.
- 224) **Sadeghi, S.H.R.**, Sadeghi, V.S., Sadeghi, S.V., Sadeghi, P.S., Sadeghi, S.P., Sadeghi, H.S., Katebikord, A., Hassanzadeh, N., Jalili, D., Yavari, S. and Zabihi Seilabi, M., 2022. Field assessment of automatic device performance for estimating the river suspended sediment concentration based on Opto-Electronic technology. *Iran-Water Resources Research*, 18(3): 180-195.
- 225) **Sadeghi, S.H.R.**, Tavosi, M., Zare, S., BeIranvandi, V., Shekohideh H., Akbari Imamzadeh, F., Bahlekeh, M., Khurshid Sokhangouy, F. and Chamani, R., 2022. Evaluation and variability of flood-oriented health of Shiraz Darwazeh Quran Watershed from Watershed Management Structures. *Journal of Water and Soil* 36(5): 561-577. Doi: 10.22067/JSW.2022.78150.1190.
- 226) Mirchooli, F., **Sadeghi, S.H.R.** and Khaledi, D. A. 2022. Comparative analysis of the effect of different calculation methods for estimating the topographic factor on the amount and spatial distribution of soil loss in the Shazand watershed. *Journal of Watershed Engineering and Management*, 14(2): 232-242.
- 227) **Sadeghi, S.H.R.**, Kalehhouie, M., Dadizade, Y., Kamari Yekdangi, F., Zuuravand, G., Radkiyanpour, M., Saroune, F., Mostafaie Younjali, S. and Piri, S., 2022. Assessing soil erosion risk using application and field evaluation of the ICONA Model in the Costal Sourak Watershed in Hormozgan Province, Iran. *Degradation and Rehabilitation of Natural Land*, 2(4): 1-12.
- 228) **Sadeghi, S.H.R.**, Zabihi Silabi, M., Katebikord, A. and Mostafazadeh, R., 2023. Soil erosion dynamic on storm-basis due to land use correction in the high priority sub-watersheds of the Galazchai Watershed, West Azerbaijan, Iran. *Journal of Watershed Management Research*, 13(26): 21-33.
- 229) Nasiri Khiavi, A., Vafakhah, M. and **Sadeghi, S.H.R.**, 2023. Application of participatory approach in identifying critical sub-watersheds based on flood generation potential in the Cheshmeh-Kileh Watershed, Mazandaran Province. *Water and Soil Management and Modeling*, 3(3), 90-107. Doi.org/10.22098/mmws.2022.11570.1142.
- 230) **Sadeghi, S.H.R.**, Payfeshoordeh, A., Pirooznia, Z., Piri, S., Hamzeh Bibalani, M., Khairparast, M., Sarouneh, F., Mostafaie Younjali, S., Naderi Marangeli, N., Noori, A., Havasi, M. and Chamani, R., 2023. Revisiting the detailed implementation studies of the Fakhran Watershed in



- South Khorasan based on the Integrated Watershed Management Plan. *Integrated Watershed Management*, 2 (4), 1-16. Doi.org/10.22034/iwm.2023.1986487.1053.
- 231) Chamani, R., Vafakhah, M. and **Sadeghi, S.H.R.**, 2023. Effect of drought on temporal-spatial changes of the Efin, watershed health. *Journal of Watershed Engineering and Management*, 15(1): 1-12. Doi.org/10.22092/IJWMSE.2021.355697.1917.
- 232) Sharifi Moghani, M., **Sadeghi, S.H.R.** and Bahramifar, N., 2023. Controllability of runoff generation and soil loss due to application of different sulfur wastes on a marl soil. *Iranian Journal of Soil and Water Research*, 54 (2): 265-280. Doi.org/10.22059/ijswr.2023.344083.669287.
- 233) **Sadeghi, S.H.R.**, Khaledi Darvishan, A., Vafakhah, M., Moradi Rekabdarkolaei, H.R., Hazbavi, Z., Rajabi, M.R., Ebrahimi Gatekesh, Z., Zaki, S.A., Pourfallah Asadabadi, S., Haji, Kh., Nasiri Khiavi, A., Momzaei, A., Mehri, S., Kalehhouie, M., Miar Rostami, S. and Pournabi, S. 2023. Conceptualization and evaluation of the Asiabrood watershed health, Chalus Township, Iran. *Journal of Watershed Management Research*, 14(27): 15-25.
- 234) **Sadeghi, S.H.R.**, Kalehhouie, M., Noori, A., Naderi Marangalo, N., Havasi, M., Payfeshoordeh, A., Khairparast, M., Mostafaei Younjali, S., Pirooznia, Z. and Hamzeh Bibalani, M. 2023. Spatial soil erosion risk at the Brimvand watershed in Kermanshah Province, Iran. *Journal of Water and Soil*, 37(3): 443-456. Doi.org/10.22067/jsw. 2023.80775.1247.
- 235) Chamani, R., Mostafaei Younjali, S. and **Sadeghi, S.H.R.**, 2023. Role of biological measures in soil erosion processes using InVEST model in the Sharghong Watershed, South Khorasan, Iran. *Journal of Water and Soil Resources Conservation (WSRCJ)*, 2(50): 95-108. Doi.org/10.30495/WSRCJ.2023.73563.11380.
- 236) Jafarpour, A., **Sadeghi, S.H.R.**, Homae, M. and Zarei Darki, B., 2023. Effect of different culture media on the growth of soil cyanobacteria for soil and water conservation. *Applied Soil Research*. 11(2): 71-81.
- 237) Katebi Kord A., **Sadeghi S.H.R.** and Singh, V.P., 2023. Effects of different methods for calculation of topographic factor on precision of storm-wise soil loss estimation. *Journal of Watershed Management Research*, 14(28):1-13.
- 238) Mumzaei, A, **Sadeghi, S.H.R.**, Zarei Darki, B. and Homae, M., 2023. Studying behavior of runoff generation in a gasoil contaminated soils due to inoculation of soil microorganism. *Iranian Journal of Soil and Water Research*, 54(5), 843-858. Doi.org/10.22059/ijswr.2023.357868.669483.
- 239) Ghavimi Panah, M.H, Gholami, L, Kavian, A. and **Sadeghi, S.H.R.**, 2024. Impact assessment of soil and water conservation practices on sediment yield changes in Kan watershed, Tehran Province, Iranian *Journal of Irrigation and Water Engineering*, 14(55):42-56. Doi.org/10.22125/IWE.2023.403278.1726.
- 240) Mumzaei, A, Kheirfam, H. and **Sadeghi, S.H.R.**, 2024. The possibility of establishment of cyanobacterial biocrusts in the saline soil of Lake Urmia bed. *Journal of Water and Soil Conservation*, 31 (1): 113-131. Doi.org/10.22069/jwsc.2024.22036.3703.
- 241) **Sadeghi, S.H.R.**, Kalehhouei, M., Kamari Yekdangi, F., Radkianpour, M. and Dadizadeh, Y., 2024. Biological control of soil erosion in the Kilanbar Watershed, Kermanshah Province, Iran. *Journal of Watershed Management Research*, 15(1): 1-14. Doi.org/ 10.61186/jwmr.15.1.1.
- 242) **Sadeghi, S.H.R.**, Kalehhouie, M., Bahlekeh, M., Noori, A., Payfeshoorde, A., Havasi, M., NaderiMaranglo, N. and Kheirparast, M., 2024. A biological management model for controlling soil erosion in rangelands of the Kojour Watershed, Mazandaran Province, Iran. *Journal of Rangeland*, 18(1): 23-41. Doi.org/20.1001.1.20080891.1403.18.1.2.8.
- 243) **Sadeghi, S.H.R.**, Hasanpour, F., Payfeshoordeh, A., Tavakoli, F., Esmail Zadeh, F., Abdulbaghi, F., Rashidi, N., Mousavian, S., Beigi, H., Bahlekeh, M. and Chamani, R., 2024. Position of the Fakhran Watershed in Iran's South Khorasan Province in the watershed management ladder. *Integrated Watershed Management*, 4(2): 1-19. Doi.org/10.22034/iwm.2024.2019702.1122.
- 244) Gharemahmudli, S., **Sadeghi, S.H.R.** and Sadeghi, V.S., 2024. Changeability of saline soil surface due to soil cyanobacteria inoculation using image processing, *Journal of Water and Soil Conservation*, 31(2): 119-137. Doi.org/10.22069/jwsc.2024.22219.3715.
- 245) Pourfallah Asadabadi, S., **Sadeghi, S.H.R.**, Vafakhah, M. and Delavar, M., 2024. Optimizing the Water, Energy, and Food Nexus in the Pishkooch Watershed, Yazd Province, Iran. *Water and Soil Resources Conservation Journal*, 3(55): 43-55.



- 246) Zabihi Silabi, M., **Sadeghi, S.H.R.** and Vafakhah, M., 2024. Evaluation of the vegetation resilience capacity index in the Shazand Watershed, Markazi Province, Iran. *Desert Ecosystems Engineering Journal*, 13(3): 1-14. Doi:10.22052/deej.2025.256065.1088.
- 247) **Sadeghi, S.H.R.**, Jafarpour, A. and Homae, M., 2025. Rill erosion morphometry in the experimental plots. *Journal of Soil Management and Sustainable Production*, 14 (4): 131-144.
- 248) **Sadeghi, S.H.R.**, Ghabelnezam, E., Ahmadinejad Baghban, F., Zabihi Silabi, M. and Chamani, R., 2025. Variability in health zoning due to applying different methods for averaging pressure, state, and response indices in the Baladeh-e-Noor watershed, Iran. *Integrated Watershed Management*, 5(1): 19-36. Doi.org/10.22034/iwm.2024.2035677.1163.
- 249) **Sadeghi, S.H.R.**, Rashidi, N., Abdulbaghi, F., Mousavian, S., Bahlekeh, M., Kalehhouie, M. and Zabihi Silabi, M., 2025. Nature-based management of soil erosion in the Shazand Watershed, Markazi Province, Iran. *Journal of Water and Soil Conservation*, 31(4): 1-34. Doi.org/10.22069/jwsc.2025.22558.3737.
- 250) Nasiri Khiavi, A., **Sadeghi, S.H.R.**, Maerker, M., KatebiKord, A., Sadeghi, P.S., Ghiasi, S.S. and Vafakhah, M. 2024. Prioritizing sediment generation potential of sub-watersheds using the Best-Worst method and observed sediment data. *Iran-Water Resources Research*, 20(4):72-87. Doi.org/10.22034/IWRR.2025.486446.2798.
- 251) **Sadeghi, S.H.R.**, Alipour, R., Fereydoni, H., Enayati, F.Z., Pakravan, A.R., Yaghooti, R., Moradnezhad, M., Esmailzadeh Ashini, F., Abdolbaghi, F., Mousavian, S., Chamani, R., Bahlekeh, M. and Beigi, H., 2025. Analysis of desirable characteristics of watershed management in detailed-implementation studies of watershed management, case study: Daftabad Watershed, South Khorasan, Iran. *Watershed Engineering and Management*, 17(2), 152-174. Doi.org/10.22092/ijwmse.2025.368017.2095.
- 252) Chamani, R., **Sadeghi, S.H.R.** and Bahlekeh, M., 2025. Reconnaissance generalized quantification of soil erosion damage due to potassium and phosphorus loss in second-order watersheds of Iran. *Integrated Watershed Management*, 2(5): 94-112. 95-108. Doi.org/10.22034/iwm.2024.2040215.1172.
- 253) **Sadeghi, S.H.R.**, Moradnezhad, M., Yaghooti, R., Fereydoni, Kalehhouie, M., H., Bahlekeh, M., Gheysori, M. and Tamadon Kooshki, R., 2025. Biological management of soil erosion in the Dehno Watershed, Sarvestan Township, Fars Province, Iran. *Iran-Watershed Management Science & Engineering*, 19(69), 1-22. Doi.org/10.22034/19.69.1.
- 254) Bahlekeh, M., and **Sadeghi, S.H.R.**, 2025. Viability assessment of the Shazand Watershed in Markazi Province, Iran, using some hydroclimatic factors, *Integrated Watershed Management*, 5(3): 17-35. Doi.org/10.22034/iwm.2025.2047457.1192.
- 255) Chamani, R., Havasi, M., Yaghooti, R. and **Sadeghi, S.H.R.** 2026. Application of the quintuple helix approach in sustainable management of the Efin Watershed in the South Khorasan. *Watershed Management Research*, 39(1): 108-125. Doi: 10.22092/wmrj.2025.370686.1633.

- Extensional Peer Reviewed Papers (Mainly in Persian)

- 1) Amirahmadi, A. and **Sadeghi, S.H.R.**, 1991. The role of watershed management on protection of natural environments. *Journal of Jihad*, (154):21-24.
- 2) **Sadeghi, S.H.R.**, 1992. Evaluation of potential of large basin in Iran. Ministry of Jihad-e-Sazandegi, Iran.
- 3) **Sadeghi, S.H.R.**, 1994. Study on factors affecting flood occurrence and evaluation of controllable factors. *Journal of Forest and Rangeland*, (29):12-19.
- 4) **Sadeghi, S.H.R.**, 2002. Systemic management of soil and water resources in KHANSAR, *Quarterly Research Journal of Emdad and Darman*, 2(2):27-35.
- 5) **Sadeghi, S.H.R.**, 2002. The necessity of public participation on flood control emphasizing on Gorgan flood, *Quarterly Research Journal of Emdad and Darman*, 2(3):21-25.
- 6) Hazbavi, Z. and **Sadeghi, S.H.R.**, 2013. A glance on history and application of soil amendments in soil and water resources management, *Extention and Development of Watershed Management*, 1(2):7-13.
- 7) Kheirfam, H., **Sadeghi, S.H.R.**, Homae, M. and Zarei Darki, B., 2014. Importance and role of Soil microorganisms for soil and water loss control, *Extention and Development of Watershed Management*, 2(5):19-26.



- 8) **Sadeghi, S.H.R.**, Sharifi Moghadam, E., Khaledi Darvishan, A.V. and Hazbavi, Z., 2014. A review of the application of sugarcane organic waste in the management of soil and water resources. *Extension and Development of Watershed Management*, 2(6):9-12.
- 9) Najafi, S., **Sadeghi, S.H.R.** and Heckmann, T., 2016. Concept and role of structural and functional sediment connectivity in sediment management of watersheds, *Extension and Development of Watershed Management*, 3(8):53-58.
- 10) Najafi, S. and **Sadeghi, S.H.R.**, 2016. Analysis of governing concepts of sediment yield and transportation processes in the watersheds, *Extension and Development of Watershed Management*, 4(12):13-23.
- 11) **Sadeghi, S.H.R.** and Hazbavi, Z., 2016. Watershed health (Part one): Reliability, resilience and vulnerability conceptual model, *Extension and Development of Watershed Management*, 4(14):39-42.
- 12) Hazbavi, Z. and **Sadeghi, S.H.R.**, 2016. Watershed health (Part two): Pressure, state and response conceptual model, *Extension and Development of Watershed Management*, 4(15):25-30.
- 13) Hazbavi, Z. and **Sadeghi, S.H.R.**, 2017. Watershed health (Part three): vigor, organization and resilience conceptual model, *Extension and Development of Watershed Management*, 5(16):1-7.
- 14) Kiani Harchegni, M., **Sadeghi, S.H.R.** and Asadi, H., 2017. An overview on application of sediment particle size distribution science in temporal and spatial scales, *Extension and Development of Watershed Management*, 5(17): 63-68.
- 15) **Sadeghi, S.H.R.**, Adhami, M. and Sheikhmohammadi, M., 2018. Introduction and applicability of game theory in Watershed CoManagement, *Extension and Development of Watershed Management*, 6(20): 1-8.
- 16) Mirchooli, F. and **Sadeghi, S.H.R.**, 2019. Comparative analysis of watershed health and sustainability, *Journal of Water and Sustainable Development*, 5(2): 163-168.
- 17) Ebrahimi Gatekash, Z., **Sadeghi, S.H.R.**, 2020. Watershed adaptive management, *Extension and Development of Watershed Management*, 8(29): 53-60.
- 18) Kalehouei, M., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V, 2021. Water erosion reactivity from climatic factors, *Extension and Development of Watershed Management*, 9(34): 20-27.
- 19) Mumzaei, A., **Sadeghi, S.H.R.**, Zarei Darki, B. and Homaei, M., 2021. Reviewing the performance of soil microorganisms on soil and water loss components, *Extension and Development of Watershed Management*, 9(35): 61-70.
- 20) **Sadeghi, S.H.R.**, Bahlekeh, M., Zare, S., Zabihi Seilabi, M., Khorshid Sokhangouy, F. and Mumzai, A., 2022. Necessity of strengthening the resilience of the agricultural sector for soil and water conservation, *Extension and Development of Watershed Management*, 10(37): 67-77.
- 21) Berianvandi, V., Tavooosi, M. and **Sadeghi, S.H.R.**, 2022. Necessity of environmental justice in watershed management, *Extension and Development of Watershed Management*, 10(37): 47-56.
- 22) Chamani, R., Vafakhah, M. and **Sadeghi, S.H.R.**, 2023. Evaluating the effectiveness of biological and engineering measures affecting the hydrological services of the Efin Watershed. *Extension and Development of Watershed Management*, 11(40): 46-56. Doi.org/20.1001.1.26454777.1402.11.40.5.4.
- 23) **Sadeghi, S.H.R.**, and Bahlekeh, M., 2023. Watershed viability: concept and necessity, *Extension and Development of Watershed Management*, 11(40): 15-22. Doi.org/20.1001.1.26454777.1402.11.40.2.1.
- 24) Beigi, H., **Sadeghi, S.H.R.**, Vafakhah, M., Mousavi, V. and Maerker, M., 2025. Significance of Investigating Watershed Stability. *Extension and Development of Watershed Management*, 13(48): 12-20. Doi.org/20.1001.1.26454777.1402.11.40.2.1.
- 25) Naghdi, M. and **Sadeghi, S.H.R.**, 2025. One Water-One Watershed Approach. *Extension and Development of Watershed Management*, 13(50): 21-31. Doi.org/10.22034/WMGI.2025.2058101.1111.

VIII) LIST OF PAPERS PRESENTED IN CONGRESSES AND SEMINARS:

- 1) **Sadeghi, S.H.R.**, 1988. Role of forest plantation on watershed management, Gorgan University.
- 2) **Sadeghi, S.H.R.**, 1989. Reduction of erosional impacts in forest roads, Gorgan University.
- 3) **Sadeghi, S.H.R.**, 1991. Soil erosion and sediment yield and their prediction, *In: Proceedings 2nd National Seminar on Watershed Management*, Zanjan, Iran.



- 4) **Sadeghi, S.H.R.**, 1994. Comparison of several methods in prediction of soil erosion and sediment yield, *In: Proceedings International Symposium on Stream Erosion and Sediment Transportation, Australia and National Seminar on Optimum Utilization of Lands, 1993.*
- 5) **Sadeghi, S.H.R.** and Seradjadeh, H. 1994. Study on application of computer models in soil conservation and watershed management, *In: Proceedings 4th Congress on Soil Sciences, Isfahan, Iran.*
- 6) **Sadeghi, S.H.R.**, 1995. Role of education and extension on reduction of flood hazards, *In: Proceedings 1st Scientific Seminar on Extension of Natural Resources, Animal Affairs and Aquatics, Rasht, Iran.*
- 7) **Sadeghi, S.H.R.**, 1996. Badland erosion and its control in Iran. *In: Proceedings International Symposium on Soil Erosion and Sediment (Global and Regional Aspects), Exeter, England.*
- 8) **Sadeghi, S.H.R.**, 1997. Evaluation of efficiency of computer model Sedimot II on flood prediction. *International Symposium on Emerging Trends in Hydrology, Roorkee, India.*
- 9) **Sadeghi, S.H.R.**, 1997. Study on factors affecting flood occurrence in KHANSAR City, *In: Proceedings Seminar on KHANSAR and Golpayegan Development, KHANSAR, Iran.*
- 10) **Sadeghi, S.H.R.**, 1997. Mathematical and computer models of soil erosion and sediment yield, *In: Proceedings National Seminar on Soil Erosion and Sediment Yield, Noor, Iran.*
- 11) **Sadeghi, S.H.R.**, 1997. Study on the role of vegetation cover on soil conservation, *In: Proceedings International Seminar on Rain Catchment, Tehran, Iran.*
- 12) **Sadeghi, S.H.R.** and Singh, J.K., 1998. Role of land use on soil erosion features, *International Symposium on Sustainable Agriculture, Himalchal Paradesh, India.*
- 13) **Sadeghi, S.H.R.**, Singh, J.K. and Das, G., 2000. Rainfall-runoff relationship model for Amameh Watershed in Iran, *In: Proceedings International Conference on Integrated Water Resources Management, New Delhi, Dec. 19-21, 2000, India: 796-804.*
- 14) **Sadeghi, S.H.R.** and Singh, J.K., 2001. Prioritization of sub-watersheds in generation of total sediment yield using routing model, *In: Proceedings 3rd International Conference on Land Degradation, Sep. 17-21, Brazil, S3-006.*
- 15) **Sadeghi, S.H.R.**, 2002. Introducing two methods for development of sediment rating curve equations in rising and falling limbs of hydrograph, *In: Proceedings National Seminar on Land Management, Soil Erosion and Sustainable Development. Jan.21-23, 2002. Arak, Iran.*
- 16) **Sadeghi, S.H.R.**, 2002. Spatial distribution model of runoff in watersheds, *First National Conference on Water Criticality, Mar. 9-10, 2002, Zabol, Iran.*
- 17) **Sadeghi, S.H.R.**, 2002. Potential evaluation of Southern Caspian Sea Large Watershed and introduction of some of managerial methods. *In: Proceedings First Seminar on Role and Statue of Watershed Management in Development of Natural Resources and Agriculture of Caspian Sea Marjin, Rasht, May 22, 2002.*
- 18) **Sadeghi, S.H.R.**, 2002. Soil erosion mapping, a tool for sustainable development, *The 3rd International Iran and Russia Conference, Agriculture and Natural Sciences, Moscow, Sep. 18-20, 2002, Pp. 217.*
- 19) **Sadeghi, S.H.R.**, 2002. The effect of land use on soil erosion type in the humid climate of the North of Iran, *In Proceedings of Sustainable Use and Management of Soils in Arid and semiarid Regions, Spain, Murcia, 22-26th Sep. 2002.*
- 20) **Sadeghi, S.H.R.**, 2002. Applicable models for storm-wise sediment yield prediction in Iran, *In: Proceedings of the Science Conference 2002, Oct. 11-13th, 2002, Taiz, Yemen.*
- 21) **Sadeghi, S.H.R.**, 2003. Analysis of flood occurrence in mountainous area, *Seminar on Effect Reduction and Flood Prevention, Gorgan, Jan.15-16, 2003, Iran.*
- 22) **Sadeghi, S.H.R.** and Singh, J.K., 2002. Development of synthetic sediment graph using hydrological data, *In: International Conference on Hydrology and Watershed Management, Hyderabad, India Dec.18-22, 2002.*
- 23) **Sadeghi, S.H.R.** and Tofighi, B., 2003. Study on the relationship between temporal distribution of sediment concentration and flow discharge in art of North Karoon, *In: Proceedings Sixth International Conference on River Engineering, Ahvaz, Jan.28-30, 2003, Iran.*



- 24) **Sadeghi, S.H.R.**, Jalali Rad, R. and Sarab, M.A., 2003. Flood hazard zoning in a part of Tehran Urban Watershed using HEC-RAS hydraulic model and ArcView GIS, Case Study: Darabad River, *In: Proceedings Sixth International Conference on River Engineering, Ahvaz, Jan.28-30, 2003, Iran.*
- 25) **Sadeghi, S.H.R.**, 2003. Study on role of agriculture on soil erosion, *In: Proceedings 8th Congress on Soil Sconces, Sep.1-4, 2003, Rasht, Iran.*
- 26) **Sadeghi, S.H.R.**, Nikpour A. and Ayoubzadeh, S.A., 2003. Development of sediment dynamic model for Kasilian Watershed, Mazandaran, *In: Proceedings 4th Iranian Hydraulic Conference, Shiraz, Iran, Oct. 21-23, 2003, 1237-1242.*
- 27) **Sadeghi, S.H.R.**, 2003. A view on planning, designing and monitoring of water harvesting systems and experiences of some countries, 3rd Aquifer Management Seminar, Eurmieh, Iran, Sep. 26-27, 2003, 492-499.
- 28) **Sadeghi, S.H.R.**, Najafi, D.A., Vafakhah, M. and Mokhtari, A., 2004. Applicability of clustering analysis in sediment watershed modeling, *In: Proceedings National Conference on Watershed Management and Water and Soil Resources, Kerman, Iran, May 9-10, 2004, 26-35.*
- 29) **Sadeghi, S.H.R.**, Najafi, D.A. and Vafakhah, M., 2004. Study on land use variation on soil erosion (Case study: Lenjan-e-Olya in Isfahan Province), *In: Proceedings National Conference on Watershed Management and Water and Soil Resources, Kerman, Iran, May 9-10, 2004, 115-123.*
- 30) Hasanloo, M.R., Moradi, H.R. and **Sadeghi, S.H.R.**, 2004. Study on roles of geomorphological factors on water erosion in a part of Zanjanrood Watershed, *In: Proceedings National Conference on Watershed Management and Water and Soil Resources, Kerman, Iran, May 9-10, 2004, 98-103.*
- 31) **Sadeghi, S.H.R.**, 2004. Study on consequent flood occurrence in a part of Northern Iran, *In: Interpraevent2004 Proceedings, Italy, May 24-28, 2004, 1(3):251-258.*
- 32) **Sadeghi, S.H.R.**, 2004. Application of MUSLE in prediction of sediment yield in Iranian Conditions, *In: International Erosion Control Association, ISCO2004, Brisbane, Australia, 4 to 8 Jul. 2004, 998:1-4.*
- 33) **Sadeghi, S.H.R.** and Behzadfar, M., 2004. Temporal variations of rainfall erosivity factor in Mazandaran Province, Iran, *In: The Fourth International Iran and Russia Conference on Agriculture and Natural Resources, Shahre Kord, Iran, Sep. 8-10, 2004: 1280-1285.*
- 34) **Sadeghi, S.H.R.**, Fattahi, B., Safaeian, N. and Erfanzadeh, R., 2004. Grazing impacts on infiltration rate in a part of Alborz Mountainous Rangelands, Iran, *In: The Fourth International Iran and Russia Conference on Agriculture and Natural Resources, Shahre Kord, Iran, Sep. 8-10, 2004:987-990.*
- 35) **Sadeghi, S.H.R.** and Razzaghian, H., 2004. Seasonal precipitation-runoff relationships for eastern south part of Caspian Sea, Iran *In: The Fourth International Iran and Russia Conference on Agriculture and Natural Resources, Shahre Kord, Iran, Sep. 8-10, 2004: 1286-1289.*
- 36) **Sadeghi, S.H.R.** and Jalali Rad, R., 2004. Effects of bridges on variation of inundation depth and area, *In: Ninth International Symposium on River Sedimentation (9th ISRS) Proceedings, Yichang, China, 18-21, Oct. 2004, 2:575-578.*
- 37) **Sadeghi, S.H.R.**, Razaghian H. and Moradi, H.R., 2004. Seasonal rainfall-runoff models for tangrah watershed in Golestan Province, *In: Proceedings CD of First Annual Convention of Water Resources Management of Iran, Technology College, Tehran University, Iran, Nov., 16-17, 2004: 1-8.*
- 38) Telvari, A.R., Khedri Tazhan, B. and **Sadeghi, S.H.R.**, 2004. Application of fuzzy logic in prioritization of watershed management measures in Shahrestanak Watersheds, Karadj, *In: Proceedings CD of First Annual Convention of Water Resources Management of Iran, Technology College, Tehran University, Iran, Nov., 16-17, 2004: 1-9.*
- 39) **Sadeghi, S.H.R.** and Frootan, E., 2004. Impacts of watershed management measures on flood and drought control, *In: Proceedings of 4th International Conference on Land Degradation, Murcia, Spain, Sep. 12-14, 2004:270.*
- 40) **Sadeghi, S.H.R.**, 2004. Some of water management techniques in Iran, *In: The rational Use and Conservation of Water Resources in a Changing Environment Proceedings, Armenia, Yerevan, Jul. 10-15, 2003, 1:112-119.*
- 41) **Sadeghi, S.H.R.**, Vafaeekhah, N. and Ghasempouri, S.M., 2004. Study on local variation of total hardness of drinking water in Noor City, Iran, *In: The rational Use and Conservation of Water*



- Resources in a Changing Environment Proceedings, Armenia, Yerevan, Jul. 10-15, 2003, 1:255-259.
- 42) **Sadeghi, S.H.R.** and Singh, J.K., 2005. A glance on approaches and experiences of women's participation in Watershed Management in India, In Proceedings: Workshop on Role of Women and Girls in Conservation of Watershed and Environment, Sharifi, F. and Mahdavi, M. (Ed.), Shiraz, Iran, 24-27 Feb. 2004, 197-208.
 - 43) **Sadeghi, S.H.R.** and HajiGholizadeh, M., 2005. Study on relationship between main river system and Noor Urban Development, *In: Proceedings of Seminar on Regional Development Strategies of Noor City, Iran, Mazandaran, May 12, 2005:21.*
 - 44) **Sadeghi, S.H.R.**, Yasrebi, B., Vafakhah, M., Aghabeigi Amin, S. and Singh, J.K., 2005. Optimal watershed management using spatial prioritization of sub-watersheds in runoff generation, *In: Proceedings of National Conference on Watershed Management for Sustainable Production, Livelihood and Environmental Security, India, Pantnagar, May 19-21, 2005:46.*
 - 45) **Sadeghi, S.H.R.**, Shojaee, Gh.R. and Singh, J.K., 2005. Analysis of annual precipitation and sediment yield changes towards management of Mandarijan Watershed in Zayandehrood Dam Basin in Iran, *In: Proceedings of National Conference on Watershed Management for Sustainable Production, Livelihood and Environmental Security, India, Pantnagar, May 19-21, 2005:72.*
 - 46) **Sadeghi, S.H.R.**, Sharifi, F. and Frootan, E., 2005. Water resources sustainability through watershed management, *In: Proceedings of National Conference on Watershed Management for Sustainable Production, Livelihood and Environmental Security, India, Pantnagar, May 19-21, 2005:47.*
 - 47) **Sadeghi, S.H.R.** and Rahimzadeh Halagh, N., 2005. Study on transpiration rates of *Vicia villosa* and *Bromus inermis* species, *In: Proceedings of XX International Grassland Congress 2005, O'Mara, F.P., Wilkins, R.J., Mannetje, L.T., Lovett, D.K., Rogers, P.A.M. and Boland, T.M. (Ed.) Ireland, Jun. 26 to Jul. 1, 2005, Wageningen Academic Publishers:685.*
 - 48) **Sadeghi, S.H.R.** and Mahmoodi, M. 2005. Development of nomograph for estimation of sediment volume in check dams, *In: Proceedings of 3rd National Seminar on Soil Erosion and Sediment, Aug. 28-31, 2005, Tehran: 603-607.*
 - 49) **Sadeghi, S.H.R.**, Nikkami, D. and Jalili, Kh., 2005. Soil erosion formulation for optimal land use, *In: Proceedings of 3rd National Seminar on Soil Erosion and Sediment, Aug. 28-31, 2005, Tehran: 72-75.*
 - 50) **Sadeghi, S.H.R.**, Azari, M. and Ghaderi Vangah, B., 2005. Application and evaluation of HEM in Soil erosion prediction of Talesh Rangelands, *In: Proceedings of 3rd National Seminar on Soil Erosion and Sediment, Aug. 28-31, 2005, Tehran: 612-615.*
 - 51) **Sadeghi, S.H.R.**, Reisian, R. and Razavi, S.L., 2005. Comparison of sediment yield and runoff generation in abandoned agriculture and poor rangeland, *In: Proceedings of 3rd National Seminar on Soil Erosion and Sediment, Aug. 28-31, 2005, Tehran: 608-611.*
 - 52) Soufi, M., Soheili, E. and **Sadeghi, S.H.R.**, 2005. Study on effects of soil physico-chemical and infiltration characteristics on extension of tunnel erosion in Lamerd Township, Fars Province, *In: Proceedings of 9th Soil Science Congress of Iran, Aug. 28-31, 2005, Tehran: 585-586.*
 - 53) Soheili, I., Soufi, M. and **Sadeghi, S.H.R.**, 2005. Studying soil characteristics in three regions subjected to tunnel erosion in Southern and Eastern parts of Fars Province, *In: Proceedings of 9th Soil Science Congress of Iran, Aug. 28-31, 2005, Tehran: 564-566.*
 - 54) Moradi, H.R., **Sadeghi, S.H.R.** and Behzadfar, M., 2005. Investigation on relationship between rainfall parameters and erosivity factor in Khuzestan Province, Iran, *In: Proceedings of International Conference on Human Impacts on Soil Quality Attributes, Sep. 12-16, 2005, Isfahan, 5p.*
 - 55) **Sadeghi, S.H.R.**, Jalili, Kh. and Nikkami, D., 2005. Land Use Planning: A practical approach in soil erosion control, *In: Proceedings of International Conference on Human Impacts on Soil Quality Attributes, Sep. 12-16, 2005, Isfahan, 5p.*
 - 56) **Sadeghi, S.H.R.**, Yasrebi, B., Aghabeigi Amin, S. and Vafakhah, M., 2005. Flood and sediment hazard mitigation in a part of Haraz Watershed using temporal variations studying, *In: Proceedings of International Conference on Geohazards, Natural Disasters and Methods of Confronting with Them, Tabriz University, Sep. 27-29, 2005:66-67.*



- 57) **Sadeghi, S.H.R.**, Jalili, Kh. and Nikkami, D., 2005. Soil erosion management using proper assignment of land use, *In: Proceedings of International Conference on Geohazards, Natural Disasters and Methods of Confronting with Them*, Tabriz University, Sep. 27-29, 2005:67.
- 58) **Sadeghi, S.H.R.** and Jalali Rad, R. 2005. Study on performance of HEC-GeoRAS and GIS in floodplain mapping, *In: Proceedings of International Conference on Geohazards, Natural Disasters and Methods of Confronting with Them*, Tabriz University, Sep. 27-29, 2005:28.
- 59) **Sadeghi, S.H.R.**, 2005. Soil erosion in Iranian Northern Forest Watersheds, *In: Proceedings of International Conference on Forest Impact on Hydrological Processes and Soil Erosion*, Yundola2005, 5–8Oct. 2005, Bulgaria: 293-298.
- 60) **Sadeghi, S.H.R.**, Vafakhah, M. and Khaledi Darvishan, A.V., 2005. Important hydraulic factors controlling morphometric characteristics of bed loads, *In: Proceedings of 5th Iranian Hydraulic Conference*, Shahid Bahonar University of Kerman, 8-10 Nov., 2005, Kerman, Iran: 1765-1771.
- 61) **Sadeghi, S.H.R.**, 2005. Water harvesting systems in Iran, *In: Proceedings of International Conference on Wadi Hydrology*, Yemen Sana'a, Dec. 12-14, 2005:1-8.
- 62) **Sadeghi, S.H.R.**, 2005. Sedimentgraph, importance and development, 10th International Symposium on the Interaction between Sediments and Water, Slovenia, Journal of Materials and Geoenvironment, 52(1):24.
- 63) **Sadeghi, S.H.R.**, 2006. Analytical comparison of erosivity and transportability of wind and water erosion, *In: 1st National Seminar on Wind Erosion*, Yazd, Jan. 24-26, 2006:64.
- 64) **Sadeghi, S.H.R.**, Aghabeigi Amin, S., Vafakhah, M. Yasrebi, B. and Esmaeili Sari, A., 2006. Suitable drying time for suspended sediment samples, Iran, International Sediment Initiative Conference, Nov.12-16, 2006, Khartoum, Sudan: 71. (Full paper on CD)
- 65) **Sadeghi, S.H.R.**, Shojaei, Gh.R. and Moradi, H.R., 2006. Extension change in important soil erosion in a part of Zayandehroud Dam basin, *In: Proceedings of 1st Regional Seminar on Optimal Utilization of Water Resources of Karoon and Zayandehroud Basins*, Shahrekord, Iran, Sep. 5-6, 2006: 1113-1116.
- 66) **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2007. Study on effects of sand and gravel mining on increasing of sediment transportability, *In: 7th International Conference on River Engineering*, Ahvaz, Iran, Feb. 13-15, 2007, 88-89. (Full paper on CD)
- 67) Ghazanfarpour, N., **Sadeghi, S.H.R.** and Rouhani, F., 2007. Evaluation of temporal variation of frequency distribution on Babolsar erosivity values, *In: 1st National Students in Rangeland, Watershed Management and Desert*, Karadj, Iran, Mar. 5-6, 2007: 37.
- 68) **Sadeghi, S.H.R.**, 2007. Reconnaissance study of potential and sustainability of Northern Alborz Watershed, *In: Proceedings of Seminar on Natural Resources and Sustainable Development in Southern Areas of Caspian Sea*, Azad University, Noor Branch, Noor, Iran, Mar. 8, 2007: 115-123.
- 69) Izanloo, H., Moradi, H.R. and **Sadeghi, S.H.R.**, 2007. Determination of hydrological periods of Koshkabad watershed in Razavi Province using GIS, *In: Proceedings of Seminar on Natural Resources and Sustainable Development in Southern Area f Caspian Sea*, Azad University, Noor Branch, Noor, Iran, Mar. 8, 2007: 264-281.
- 70) Ghaderi Vangah, B., **Sadeghi, S.H.R.**, Safaeian, N.A., Dianati Tilaki, Gh.A. and Khanjani Shiraz, B., 2007. The role of improvement functions in water, vegetation an soil conservation at Asalem Rangelands, *In: Proceedings of Seminar on Natural Resources and Sustainable Development in Southern Area f Caspian Sea*, Azad University, Noor Branch, Noor, Iran, Mar. 8, 2007: 575-582.
- 71) **Sadeghi, S.H.R.**, 2007. Landslides: An environmental disaster in Northern Iranian forest ecosystem, *In: Proceedings of International Conference on Environment: Survival and Sustainability*, Nicosia, Northern Cyprus, Feb. 19-24, 2007:672.
- 72) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian, M.H., 2007. Assessment of USLE nomograph for estimating erodibility of calcareous soils from northwestern Iran, *In: Proceedings International Conference on Environment: Survival and Sustainability*, Nicosia, Northern Cyprus, Feb. 19-24, 2007:623.
- 73) Azari, M., **Sadeghi, S.H.R.** and Telvari, A.R., 2007. Combination of Hec-HMS, HEC-RAS and GIS in flood simulation (Case Study: Jajargh Watershed), *In: Proceedings National Conference on Waterway Engineering (Kals)*, Mashad, Iran, Feb. 28-29, 2007:1-8(Full paper on CD).



- 74) **Sadeghi, S.H.R.**, 2007. Some remarks in soil erosion and sediment yield modeling, *In: Proceedings of Expert Meeting on Erosion and Sedimentation in Arid and Semi-Arid Regions, Chaloos, Iran, Apr. 15-19, 2007:1-14(Full paper on CD).*
- 75) **Sadeghi, S.H.R.**, 2007. Sediment graph, importance and development, *In: Proceedings of the 10th International Symposium on River Sedimentation, Russia, Moscow, Aug. 1-4, 2007: 367-376.*
- 76) **Sadeghi, S.H.R.**, Aghabeigi Amin, S., Yasrebi, B., Vafakhah, M. and Esmaeili Sari, A., 2007. Necessity of studying spatiotemporal variations of sediment yield in river basins, *In: Proceedings of the 10th International Symposium on River Sedimentation, Russia, Moscow, Aug. 1-4, 2007: 377-381.*
- 77) **Sadeghi, S.H.R.**, 2007. Analysis of relationship between soil erosion and water repellency, *In: Proceedings of 10th Soil Science Congress of Iran, Karadj, Aug. 26-28, 2007:1012-1013.*
- 78) **Sadeghi, S.H.R.**, Allafi Badi, M., Dashti Marvil, M., Yaghmaei, H. and Asadi, H., 2007. Application of MUSLT in estimation of storm-wise sediment yield, *In: Proceedings of 10th Soil Science Congress of Iran, Karadj, Aug. 26-28, 2007:1258-1259.*
- 79) **Sadeghi, S.H.R.** and Rahimzadeh Halagh, N., 2007. Daily transpiration rates of *Festuca ovina* and *Agropyron intermedium* rangeland species, *In: Proceedings of 8th International Conference on Development of Dry lands (Human and Nature-Working Together for Sustainable Development of Dry lands), Beijing, China, Feb. 25-28, 2006:443-445.*
- 80) **Sadeghi, S.H.R.**, Shojaei, Gh.R. and Moradi, H.R., 2007. Qualitative evaluation of existence and area of soil erosion and land Use, *In: Proceedings of 10th Soil Science Congress of Iran, Karadj, Aug. 26-28, 2007:1196-1197.*
- 81) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian, M.H., 2007. Error determination in estimating USLE-K factor in Iran Semi-Arid Regions, *In: Proceedings of 10th Soil Science Congress of Iran, Karadj, Aug. 26-28, 2007:1130-1131.*
- 82) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian, M.H., 2007. Determination of USLE-erodibility factor in calcareous soils, *In: Proceedings of 10th Soil Science Congress of Iran, Karadj, Aug. 26-28, 2007:1172-1173.*
- 83) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian, M.H., 2007. Study on affective physico-chemical characteristics on calcareous soil stability, *In: Proceedings of 10th Soil Science Congress of Iran, Karadj, Aug. 26-28, 2007:980-981.*
- 84) Singh, J.K. and **Sadeghi, S.H.R.**, 2007. Hydrologic response evaluation of ungauged sub-watersheds in generation of total runoff from a watershed, *In: Proceedings of Water Resources Management 2007, Wilson, J. (Ed.), Honolulu, Hawaii, USA, Aug. 20-22, 2007:155-158, <http://www.actapress.com/PaperInfo.aspx?PaperID=31190>*
- 85) **Sadeghi, S.H.R.**, Noor Mohammadi, F. and Soufi, M., 2007. Estimating sediment yield from gully erosion using easily measurable morphometric characteristics in Darehshahr Region, South of I.R. Iran, *In: Proceedings of IV International Symposium on Gully Erosion, Progress in Gully Erosion Research, Casali, J. and Gimenez, R. (Eds.), Pamplona, Spain, Sep. 17-19, 2007: 112-113.*
- 86) **Sadeghi, S.H.R.**, Rangavar, A. S., Bashari, M. and Abbasi, A.A., 2007. Waterfall erosion as a main factor in ephemeral gully initiation in a part of Northeastern Iran, *In: Proceedings of IV International Symposium on Gully Erosion, Progress in Gully Erosion Research, Casali, J. and Gimenez, R. (Eds.), Pamplona, Spain, Sep. 17-19, 2007: 114-115.*
- 87) **Sadeghi, S.H.R.**, 2007. Time and space scales in management of watersheds, *In: Proceedings of 3rd National Conference on Watershed Management and Water and Soil Resources, Kerman, Iran, Dec. 11-12, 2007: 279-282.*
- 88) **Sadeghi, S.H.R.**, Kiyani Harchegani, M., Saeidi, P. and Salavati, B., 2007. Evaluation of efficacy and efficiency of USLE-M model in estimation of storm sediment, *In: Proceedings of 3rd National Conference on Watershed Management and Water and Soil Resources, Kerman, Iran, Dec. 11-12, 2007:690-692.*
- 89) Ghzanfarpour, N., **Sadeghi, S.H.R.** and Rouhani, F., 2007. Relationship between annual erosivity and founrier index in Bushehr Station, *In: Proceedings of 3rd National Conference on Watershed Management and Water and Soil Resources, Kerman, Iran, Dec. 11-12, 2007:672-674.*
- 90) Yasrebi, B., **Sadeghi, S.H.R.** and Noor Mohammadi, F., 2007. Best management of water resources with assessment the effects of temporal and spatial distribution of precipitation on discharge, *In:*



- Proceedings of 3rd National Conference on Watershed Management and Water and soil Resources, Kerman, Iran, Dec. 11-12, 2007:1135-1137.
- 91) Noor Mohammadi, F., **Sadeghi, S.H.R.**, Soufi, M. and Yasrebi, B., 2007. Assesment of effects of slope on sedimentation and gully morphology in Dareshahr Catchment-Iran, *In: Proceedings of 3rd National Conference on Watershed Management and Water and Soil Resources, Kerman, Iran, Dec. 11-12, 2007:752-755.*
 - 92) Abdollahi, Kh. **Sadeghi, S.H.R.**, Shayannejad, M. and SamadiBrojeni, H., 2007. Modeling experiences on floods resulting from earthen dam break, *In: Proceedings 6th Iranian Hydraulic Conference, Shahrekord, Iran, Sep. 4-6, 2007: 402-409.*
 - 93) Gholami, L., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2008. Comparison sediment delivery ratio methods in Chehelgazi Watershed of gheslgh dam, *In: Proceedings of 4th National Seminar on Watershed Science and Engineering- Management of Watersheds, College of Natural Resources, Tehran University, Karadj, Feb. 20 and 21, 2008: 125.*
 - 94) Mahmoodi, M., **Sadeghi, S.H.R.** and Abbasi, A.A., 2008. Modeling roughness coefficient in a reach of Kardeh River, *In: Proceedings of 4th National Seminar on Watershed Science and Engineering- Management of Watersheds, College of Natural Resources, Tehran University, Karadj, Feb. 20 and 21, 2008: 277.*
 - 95) **Sadeghi, S.H.R.**, Kiani Harchegani, M., Saeidi, P. and AllafiBadi, M., 2008. Evaluation of applicability of EUSLE in estimation of storm sediment yield, *In: Proceedings of 4th National Seminar on Watershed Science and Engineering- Management of Watersheds, College of Natural Resources, Tehran University, Karadj, Feb. 20 and 21, 2008: 122.*
 - 96) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian, M.H., 2008. Effects of soil characteristics on runoff in calcareous soils in semi arid zones of Northwestern Iran, *In: Proceedings of 4th National Seminar on Watershed Science and Engineering- Management of Watersheds, College of Natural Resources, Tehran University, Karadj, Feb. 20 and 21, 2008: 150.*
 - 97) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian, M.H., 2008. Evaluation of soil sensitivity to water erosion in Northwestern Semi-Arid Regions of Iran, *In: Proceedings of 5th Iranian Conference on Engineering Geology and Environment, Feb. 21 and 23, 2008:157.*
 - 98) **Sadeghi, S.H.R.** and Salavati, B., 2008. Effects of 23 years land use change in Kordestan Province on annual runoff, *In: 2nd National Conference on World Environment Day, Tehran University, Jun. 9 and 10, 2008: 281.*
 - 99) **Sadeghi, S.H.R.**, Saeidi, P. and Kiani Harchegani, M., 2008. Environmental effects of sand and gravel mining through increasing suspended sediment concentration, *In: 2nd National Conference on World Environment Day, Tehran University, Jun. 9 and 10, 2008: 270.*
 - 100) **Sadeghi, S.H.R.**, Tavassoli, A. and Hosseinnia, A., 2008. Effects of climate change on surface water quantity in Neishaboor Bar Watershed, *In: 2nd National Conference on World Environment Day, Tehran University, Jun. 9 and 10, 2008: 285.*
 - 101) Ghorbani Vaghei, H., Bahrami, H.A., **Sadeghi, S.H.R.** and Tahmasebipour, N., 2008. Modeling soil permeability based on fuzzy system for calcareous soils in Marbore Watershed, Iran, *In: EUROSOL 2008, Austria, Vienna, Aug. 4, 2008:173.*
 - 102) **Sadeghi, S.H.R.**, 2008. Importance of time and space modeling in sustainable flood management, *In: Annual International Conference 2008, Royal Geographical Society with Institute of British Geographer, UK, London, Aug. 26-29, 2008: 18.*
 - 103) **Sadeghi, S.H.R.** and Moatamednia, M., 2008. Development and analysis of discharge rating curve in Koujor educational forest watershed, *In: the 1st International Conference on the Caspian Region Environmental Change, Iran, Babolsar, Aug. 24-25, 2008. 6p.*
 - 104) **Sadeghi, S.H.R.**, Moatamednia, M., Moradi, H.R. and Asadi, H., 2008. Study on variation of flood main components during last three decades in Kassilian forest Watershed, *In: The 1st International Conference on the Caspian Region Environmental Change, Iran, Babolsar, Aug. 24-25, 2008. 8p.*
 - 105) Moradi, H.R., **Sadeghi, S.H.R.**, Telvari, A.R., Asadi, H. and Moatamednia, M., 2008. Evaluation of clark instantaneous unit hydrograph in flood estimation in Kassilian Watershed, *In: The 1st International Conference on the Caspian Region Environmental Change, Iran, Babolsar, Aug. 24-25, 2008. 6p.*



- 106) Azari-Dehkordi, F., Talebi, Sh. and **Sadeghi, S.H.R.**, 2008. Classification and change Detection of landscape in Neka Watershed, Iran, *In: International Conference on Landscape Ecology and Forest Management (Challenges and Solutions)*, Sichuan, China, Sep. 16-18, 2008.
- 107) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian, M.H., 2008. Uncertainty evaluation of soil erodibility factor for USLE in calcareous soils from Northwestern Semi-Arid Iran, *In: Proceedings of 5th International Conference on Land Degradation*, Italy, Bari, Sep. 18 to 22, 2008:403.
- 108) **Sadeghi, S.H.R.** and Kiani Harchegani, M., 2008. Particle size distribution of suspended sediment during a storm, *In: Proceedings CD of 3rd Conference on Water Resources Management of Iran*, Iran, Tabriz, Oct. 14-16, 2008:289, 5p.
- 109) Gholami, L., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2008. Efficiency evaluation of some rainfall erosivity estimation methods in Gheshlagh Dam Chehel Gazi Watershed, *In: Proceedings CD of 3rd Conference on Water Resources Management of Iran*, Iran, Tabriz, Oct. 14-16, 2008:120, 10p.
- 110) Zarrin, H.A., Moghadamnia, A.R., Namdorost, J. and **Sadeghi, S.H.R.**, 2008. Performance evaluation of AWBM in simulation of rainfall-runoff relationship in lacked data watersheds (Case study: Sistan and Balouchestan Province), *In: Proceedings CD of 3rd Conference on Water Resources Management of Iran*, Iran, Tabriz, Oct. 14-16, 2008:80, 12p.
- 111) Abdollahi, Kh., Esmali, A., FarajzadehAsl, M., **Sadeghi, S.H.R.** and Esmaeili, N.A., 2008. Feasibility evaluation of GIUH in hydrologic simulation of Khanmirza Watershed, *In: Proceedings CD of 3rd Conference on Water Resources Management of Iran*, Iran, Tabriz, Oct. 14-16, 2008:101, 6p.
- 112) **Sadeghi, S.H.R.**, Yasrebi, B. and Vafakhah, M., 2008. Long term water discharge changeability due to rainfall change in Haraz Watershed, Iran, *In: 1st International Conference on Water Resources Management and Climate Change in MENA Region*, Sultanate of Oman, Muscat, Nov. 2-4, 2008: 13.
- 113) Sadeghi, V.S., MiyarNaeimi, H., **Sadeghi, S.H.R.** and KhalediDarvishan, A.V., 2008. River sediment segmentation using image processing, *In: Proceedings CD of 2nd Iranian Data Mining Conference*, Amir Kabir University, Nov. 11-12, 2008, 8p.
- 114) **Sadeghi, S.H.R.**, Aghabeigi Amin, S., Vafakhah, M., Yasrebi, B. and Esmaeili Sari, A., 2008. Time scale effects on accuracy of sediment yield estimation, *In: Proceedings of 15th International Congress of International Soil Conservation Organization (ISCO)*, Hungary, Budapest, May, 18-23, 2008: 3 p. <http://tucson.ars.ag.gov/isco/isco15/MS.htm>
- 115) **Sadeghi, S.H.R.**, Noormohammadi, F. and Soufi, M., 2008. Estimating sediment yield from gully erosion using easily measurable morphometric characteristics in Darehshahr Region, South of I.R. Iran, *In 15th International Congress of International Soil Conservation Organization (ISCO)*, Hungary, Budapest, May, 18-23, 2008:259. <http://tucson.ars.ag.gov/isco/isco15/MS.htm>
- 116) **Sadeghi, S.H.R.** and Tavassoli, A., 2009. Trend analysis of half centurial mean precipitation and runoff data in Neishabour Bar Watershed, *In: Proceedings of National Conference on Comprehensive Management of Water Utilization*, Iran, Kerman, Mar. 14, 2009: 87.
- 117) Moatamednia, M. and **Sadeghi, S.H.R.**, 2009. Analysis of base flow contribution in recorded flood events during last four decades in Kassilian Forest Watershed, *In: Proceedings of National Conference on Comprehensive Management of Water Utilization*, Iran, Kerman, Mar. 14, 2009: 107.
- 118) Saeidi, P. and **Sadeghi, S.H.R.**, 2009. Capability of regression concept in sedimentgraph simulation, *In: Abstracts Proceedings of the 5th National Conference on Watershed Management (Natural Hazards Sustainable Management) Iran*, Gorgan, Apr. 22 and 23, 2009: 56 (Full paper published in CD, 6p).
- 119) **Sadeghi, S.H.R.**, Noor, H. and Raeisi, M.B., 2009. Discharge and sediment concentration variability in Kojor Forest Watershed during autumn 2008, *In: Abstracts Proceedings of the 5th National Conference on Watershed Management (Natural Hazards Sustainable Management) Iran*, Gorgan, Apr. 22 and 23, 2009: 55 (Full paper published in CD, 4p).
- 120) Khaledi Darvishan, A.V., **Sadeghi, S.H.R.**, Gholami, L. and Telvari, A.R., 2009. Comparison of efficacy and calibration of MUSLE-E and MUSLE-S models in storm-wise sediment estimation, *In: Abstracts Proceedings of the 5th National Conference on Watershed Management (Natural Hazards Sustainable Management) Iran*, Gorgan, Apr. 22 and 23, 2009: 45 (Full paper published in CD, 9p).



- 121) Vafakhah, M. and **Sadeghi, S.H.R.**, 2009. Relationship between water quality chemical parameters and discharge in Haraz River, *In: Abstracts Proceedings of the 5th National Conference on Watershed Management (Natural Hazards Sustainable Management) Iran, Gorgan, Apr. 22 and 23, 2009: 83 (Full paper published in CD, 9p).*
- 122) Izanloo, H., Moradi, H.R. and **Sadeghi, S.H.R.**, 2009. Site selection of sub-watersheds influencing peak discharge and volume of spring floods by using HEC-HMS (Case study: Kooshk Abad Watershed in Khorasan Razavi Province), *In: Abstracts Proceedings of the 5th National Conference on Watershed Management (Natural Hazards Sustainable Management) Iran, Gorgan, Apr. 22 and 23, 2009: 39 (Full paper published in CD, 10p).*
- 123) Kiani Harchegani, M. and **Sadeghi, S.H.R.**, 2009. Spatial variation of suspended sediment particle size distribution in a Reach of Kojour River, *In: Abstracts Proceedings of the 5th National Conference on Watershed Management (Natural Hazards Sustainable Management) Iran, Gorgan, Apr. 22 and 23, 2009: 213 (Full paper published in CD, 6p).*
- 124) **Sadeghi, S.H.R.** and Fazli, S., 2009. Application of hillslope erosion model in soil erosion estimation from ploughed plots, *In: Abstracts Proceedings of the 5th National Conference on Watershed Management (Natural Hazards Sustainable Management) Iran, Gorgan, Apr. 22 and 23, 2009: 214 (Full paper published in CD, 5p).*
- 125) Moatamednia, M. and **Sadeghi, S.H.R.**, 2009. Analysis of hysteresis phenomenon in discharge rating curve in observed floods, *In: Abstracts Proceedings of the 5th National Conference on Watershed Management (Natural Hazards Sustainable Management) Iran, Gorgan, Apr. 22 and 23, 2009: 170 (Full paper published in CD, 5p).*
- 126) Salavati, B., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2009. Variability of fitted distributions on precipitation data from sanandaj synoptic station in different time scales, *In: Abstracts Proceedings of the 5th National Conference on Watershed Management (Natural Hazards Sustainable Management) Iran, Gorgan, Apr. 22 and 23, 2009: 268 (Full paper published in CD, 6p).*
- 127) Zarif, M.S., **Sadeghi, S.H.R.** and Mirnia, S.Kh., 2009. Study on changes in runoff and sediment yield in two difference slope in Kojour Forest Watershed, *In: Abstracts Proceedings of the 5th National Conference on Watershed Management (Natural Hazards Sustainable Management) Iran, Gorgan, Apr. 22 and 23, 2009: 212 (Full paper published in CD, 4p).*
- 128) Mohammadpour, K., **Sadeghi, S.H.R.** and Dianati, Gh.A., 2009. Variability of runoff generation in small plots established in short term excluder and grazed ranges during summer 2008, *In: Abstracts Proceedings of the 5th National Conference on Watershed Management (Natural Hazards Sustainable Management) Iran, Gorgan, Apr. 22 and 23, 2009: 171 (Full paper published in CD, 5p).*
- 129) **Sadeghi, S.H.R.** and Tavassoli, A., 2009. Trend analysis of half centurial mean precipitation and runoff data in Neishabour Bar Watershed, *In: Abstracts Proceedings of the National Conference on Comprehensive Management of Water Exploitation, Kerman, Mar. 14, 2009:87.*
- 130) Moatamednia, M. and **Sadeghi, S.H.R.**, 2009. Analysis of base flow contribution in recorded floods during past four decades in Kasilian Watershed, *In: Abstracts Proceedings of the National Conference on Comprehensive Management of Water Exploitation, Kerman, Mar. 14, 2009:107.*
- 131) Zarif, M.S., Mirnia, S.Kh. and **Sadeghi, S.H.R.**, 2009. Changeability of runoff threshold and depth in different slopes on western aspect in a forest watershed, *In: Abstracts Proceedings of the National Conference on Comprehensive Management of Water Exploitation, Kerman, Mar. 14, 2009:84.*
- 132) **Sadeghi, S.H.R.** and Saeidi, P., 2009. Accuracy of decantation technique for estimation of different suspended sediment concentrations, *In: Abstracts Proceedings of International Conference on Land Conservation-LANDCON0905, Serbia, Tara Mountain Park, May 26 to 30, 2009: 118 (Full paper published in CD, 4p).*
- 133) **Sadeghi, S.H.R.**, Saeidi, P., Noor, H. and Raeisi, M.B., 2010. Understanding sediment yield processes in a hyrcanian forest watershed, *In: Global Change- Challenges for Soil Management- M. Zlatic (Ed.), IUSS and Catena Verlag GMBH, 203-207.*
- 134) **Sadeghi, S.H.R.**, Mohammadpour, K. and Dianati, Gh.A., 2009. Study on role of land use on temporal variability of infiltration, soil bulk density in Kodir Summer Rangelands, *In: Abstracts*



- Proceedings of the 3rd National Conference on World Environmental Day, Iran, Tehran, Jun. 8 and 9, 2009: 75.
- 135) **Sadeghi, S.H.R.**, Jalali Rad, R. and HajiGholizadeh. M., 2009. Flood simulation in two urban watersheds in Tehran Municipality, In: Proceedings of 1st National Conference on Urban Watershed (CD), Tehran, Jul. 1, 2009: 233-248.
- 136) **Sadeghi, S.H.R.** and Kiani Harchegani, M., 2009. Study on storm inter-variation of suspended sediment concentration and heavy metals of Iron, Zinc and Chromium, In: Proceedings of 11th Soil Science Congress of Iran, Gorgan, Jul. 12-14, 2009: 1868-1870.
- 137) **Sadeghi, S.H.R.** and Moatamednia, M., 2009. Comparison of annual isoerodent maps developed based on modified fournier and Wischmeier and Smith indices, In: Proceedings of 11th Soil Science Congress of Iran, Gorgan, Jul. 12-14, 2009: 1871-1872.
- 138) **Sadeghi, S.H.R.**, Bahrami, H.A., Mahdian, M.H. and GharbaniVaghee, H., 2009. The simplest way for estimation of soil erodibility factor suited to Iranian calcareous soils, In: Proceedings of 11th Soil Science Congress of Iran, Gorgan, Jul. 12-14, 2009: 1890-1892.
- 139) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian, M.H., 2009. A New nomograph for estimation of semi-arid soils erodibility, In: Proceedings of 11th Soil Science Congress of Iran, Gorgan, Jul. 12-14, 2009: 1778-1779.
- 140) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian, M.H., 2009. Modeling runoff spatial variation in North-West Iranian calcareous soils, In: Proceedings of 11th Soil Science Congress of Iran, Gorgan, Jul. 12-14, 2009: 1886-1887.
- 141) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian, M.H., 2009. Modeling sediment delivery ratio in semi-arid calcareous soils, In: Proceedings of 11th Soil Science Congress of Iran, Gorgan, Jul. 12-14, 2009: 1888-1889.
- 142) AghErKakli, B.M., Najafi, A. and **Sadeghi, S.H.R.**, 2009. Effects of traffic level and compaction on soil loss in skidder trails in Harvested Forests, In: Proceedings of 11th Soil Science Congress of Iran, Gorgan, Jul. 12-14, 2009: 1904-1906.
- 143) **Sadeghi, S.H.R.**, Pourghasemi, H.R., 2009. Determinant factors on controlling sediment yield in rain fed erosion plots, In: Bhan, S., Karale, R.L., Singh, S., Bharti, V.K. and Subramanian, S., 2009, Conservation Farming, 120-124.
- 144) **Sadeghi, S.H.R.** and Singh. J.K., 2009. Importance of sediment routing in estimation of sediment yield contribution, In: Bhan, S., Karale, R.L., Singh, S., Bharti, V.K. and Subramanian, S., 2009, Conservation Farming, 114-119.
- 145) **Sadeghi, S.H.R.**, 2009. An overview on sediment problems and management in Iran, In: 8th IAHS Scientific Assembly/37th IAH Congress-A Joint International Convention, India, Hyderabad, Sep. 6 to 12, 2009, IAHS Publ. 349, 14-19.
- 146) **Sadeghi, S.H.R.**, Saeidi, P., 2009. Daily suspended sediment variation in Kojour River, In: Proceedings CD of 8th International Conference on River Engineering, Iran, Shiraz, May 11 to 13, 2009: 273, 4p.
- 147) **Sadeghi, S.H.R.**, Sadeghi, V. S., Khaledi Darvishan, A.V. and Gholami, L., 2009. Feasibility study on image processing usage in sediment granulometry, In: Proceedings of 4th National Conference on Watershed Management and Water and Soil Resources, Kerman, Iran, Dec. 2-3, 2009:668-673.
- 148) **Sadeghi, S.H.R.**, 2010. Watershed management: Sustainable management of water and soil disaster, In: Proceedings of 1st Seminar on Watershed Management and Water and Soil Disaster, Bojnourd, Mar. 8, 2010: 1.
- 149) **Sadeghi, S.H.R.** and Kiani Harchegani, M., 2010. Role of sand and gravel mining on changing heavy metal contents with suspended sediment in Kojour Watershed, In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment, Apr. 28–29, 2010: 164 (Full paper published in CD, 7p).
- 150) **Sadeghi, S.H.R.**, Fazli, S. and Khaledi Darvishan, A.V., 2010. Evaluation of applicability of sediment rating curve for Khamsan Representative Watershed, In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment, Apr. 28–29, 2010: 197 (Full paper published in CD, 8p).



- 151) **Sadeghi, S.H.R.**, Mohammadpour, K. and Dianati Tilaki, Gh.A., 2010. Temporal variability of runoff coefficient in Kojour Summer Rangelands, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 52 (Full paper published in CD, 8p).
- 152) Gholami, L., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2010. The most effective rainfall duration in estimating storm-wise sediment, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 160 (Full paper published in CD, 8p).
- 153) Tavassoli, A., **Sadeghi, S.H.R.** and Moradi, H.R., 2010. Study on long term intra variation of runoff coefficient in Bar Neishabour Watershed, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 149 (Full paper published in CD, 8p).
- 154) Raisi, M.B., **Sadeghi, S.H.R.** and Noor, H., 2010. Interpretation of Kojour Watershed sediment graphs, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 217 (Full paper published in CD, 8p).
- 155) Khazaei, M., **Sadeghi, S.H.R.** and Mirnia, S. Kh., 2010. Comparison of runoff generation and soil erosion in undisturbed and disturbed forest treatments, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 218 (Full paper published in CD, 8p).
- 156) Moatamednia, M. and **Sadeghi, S.H.R.**, 2010. Monthly variation of runoff in Kojour Watershed, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 158 (Full paper published in CD, 7p).
- 157) **Sadeghi, S.H.R.** and Razaghian, H., 2010. Application of military hydrology in inactive defense, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 110 (Full paper published in CD, 8p).
- 158) Rostami, M., **Sadeghi, S.H.R.** and Vafakhah, M., 2010. Effective flow discharge for suspended sediment in Kojour Forest Watershed, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 219 (Full paper published in CD, 7p).
- 159) **Sadeghi, S.H.R.**, Saeidi, P., Raisi, M.B. and Noor, H., 2010. Application of mean loads within discharge classes method in improving monthly sediment rating curves, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 220 (Full paper published in CD, 8p).
- 160) **Sadeghi, S.H.R.**, Soleimankhani. Z. and Mirnia, S.Kh., 2010. Temporal variations of runoff and sediment in rangeland treatment during summer and autumn 2009, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 190 (Full paper published in CD, 8p).
- 161) Gholami, R., **Sadeghi, S.H.R.** and Mirnia, S.Kh., 2010. Role of rangeland firing on runoff and sediment yield variability, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 179 (Full paper published in CD, 5p).
- 162) Salavati, B., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2010. Monitoring of land use changes in Kurdistan Province Watersheds by using GIS, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 128 (Full paper published in CD, 7p).
- 163) Soleimankhani. Z., **Sadeghi, S.H.R.** and Mirnia, S.Kh., 2010. Comparing monthly variation of infiltration and soil bulk density in reclaimed forest, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 51 (Full paper published in CD, 8p).
- 164) Mahmoodi, M., **Sadeghi, S.H.R.** and Abbsi, A.A., 2010. Calibration of keulegan formula in estimating manning's roughness coefficient in Kardeh River, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 153 (Full paper published in CD, 7p).



- 165) Bakhshi Tiregani, **Sadeghi, S.H.R.** and Khazaei, M., 2010. Investigation of effective factors on non partaking of exploiters in watershed management measures in Tiregan Watershed, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 83 (Full paper published in CD, 8p).
- 166) Razaghian, H., **Sadeghi, S.H.R.** and Moradi, H.R., 2010. Changeability of monthly precipitation-runoff models in Tangerang Watershed, Golestan Province, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 109 (Full paper published in CD, 8p).
- 167) **Sadeghi, S.H.R.**, Gholami, R. and Mirnia, S.Kh., 2010. Studying runoff start thresholds in two rangeland treatments, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 103 (Full paper published in CD, 7p).
- 168) Razavi, S.L., **Sadeghi, S.H.R.** and Mahdavi, M., 2010. Increasing SCS model accuracy through substituting entire precipitation by precipitation amount in concentration time in Khanmirza and Kassilian Watersheds, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 44 (Full paper published in CD, 8p).
- 169) Sepahvand, A.R., **Sadeghi, S.H.R.** and Moradi, H.R., 2010. Analysis of monthly flow discharge in Khorramabad Urban Watershed, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 86 (Full paper published in CD, 8p).
- 170) Vafakhah, M., **Sadeghi, S.H.R.** and Mahmoodi, M., 2010. Comparison of effect of application of different methods for flow velocity measurement on flow discharge estimation accuracy, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 102 (Full paper published in CD, 8p).
- 171) Kiani Harchegani, Saeidi, P. and **Sadeghi, S.H.R.**, 2010. Feasibility of estimation of storm-wise sediment by using AOF model, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 163 (Full paper published in CD, 5p).
- 172) Bakhshi Tiregani, Moradi, H.R. and **Sadeghi, S.H.R.**, 2010. Comparison of soil potential of rangeland and dry farming in runoff and sediment generation in Summer and Autumn, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 203 (Full paper published in CD, 8p).
- 173) Agh Er Kakli, B.M., Najafi, A. and **Sadeghi, S.H.R.**, 2010. Effectiveness of forest slashes in reducing soil erosion in skidding roads, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 221 (Full paper published in CD, 7p).
- 174) Moradi, H.R., Bakhshi Tiregani. and **Sadeghi, S.H.R.**, 2010. Comparison of some soil properties in Up and Down Slopes, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 211 (Full paper published in CD, 6p).
- 175) Soheili, E., **Sadeghi, S.H.R.** and Soufi, M., 2010. Role of soil infiltration on tunnel erosion in Southern Fars Province, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 194 (Full paper published in CD, 8p).
- 176) Yasrebi, B., Noormohammadi, F., Soufi, M. and **Sadeghi, S.H.R.**, 2010. Studying topography threshold in initiation gully erosion in dareshahr township in Ilam Province, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 194 (Full paper published in CD, 8p).
- 177) Vaezi, A.R., Bahrami, H.A., **Sadeghi, S.H.R.** and Mahdian, M.H., 2010. Estimation of erodibility factor in RUSLE model in North-West Iranian calcareous soils, *In: Abstracts Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment*, Apr. 28–29, 2010: 254 (Full paper published in CD, 8p).



- 178) **Sadeghi, S.H.R.** and Abdollahi, V., 2010. Optimal soil water utilization in reclamation of an Iranian Arid Rangeland through plant proper spacing and plantation depth, In: Abstracts Proceedings of 1st International Conference on Soil and Root Engineering Relationship (LANDCON 1005), May 24-26, 2010: 192 (Full paper published in CD, 3p).
- 179) Khazaei, M., **Sadeghi, S.H.R.** and Mirnia, S.Kh., 2010. Modeling sediment yield resulted from forest disturbance by using ANN and multiple regression (Case study: Educational Kojour Forest Watershed of Tarbiat Modares University), In: Abstracts Proceedings of the National Seminar on Natural Resources, Threatens, Issues, Applied Research and Practical Strategies, Ilam, May 19-20, 2010: 448.
- 180) **Sadeghi, S.H.R.**, Soleimankhani, Z., Mirnia, S.Kh. and Gholami Gohareh, R., 2010. Comparison between runoff threshold in rangeland and reclaimed forest land uses, In: Abstracts Proceedings of the National Seminar on Natural Resources, Threatens, Issues, Applied Research and Practical Strategies, Ilam, May 19-20, 2010: 488.
- 181) **Sadeghi, S.H.R.**, Khaledi Darvishan, A.V., Saeidi, P., Kiani Harchegani, M., Moatamednia, M., Yaghmaei, H., Noor, H. and Raisi, M.B., 2010. Monthly, seasonal and annual yield of suspended sediment, heavy metals and some other water pollutants in one of the watersheds drained to Caspian Sea, In: The 1st National-Regional Conference on Ecology of the Caspian Sea (NRCECS2010), Iran, Sari, Jun. 1-2, 2010: 213.
- 182) **Sadeghi, S.H.R.**, 2010. How important is sediment graph development in Iran? In: Proceedings of the ICCE Symposium (Sediment Dynamics for a Changing Future), Warsaw University of Life Sciences-SGGW, Poland, 14–18 Jun. 2010, IAHS Publ. 337, 361-365.
- 183) Kiani Harchegani, M., **Sadeghi, S.H.R.** and Younesi, H.A., 2010. Comparison of heavy metals content in water and suspended sediment concentration. In: The 6th GIAN_Symposium on Protection and Utilization of Ecosystems in Arid and Semi-Arid Regions, Iran. Karadj, Oct. 2-6, 2010 (Full paper published in CD, 6p).
- 184) **Sadeghi, S.H.R.** and Kiani Harchegani, M., 2011. Study on temporal variation of water quantity and quality of Kojour River, In: 2nd Seminar on Studying Watershed Management Issues and Proposing Appropriate Solutions in Karoon and Zayandehrood Watersheds, Iran, Shahrekord, Mar. 9 and 10, 2011: 1317-1321(Full paper published in CD).
- 185) Razavi. S.L., **Sadeghi, S.H.R.** and Mahdavi, M., 2011. Role of rainfall characteristics on accuracy of estimated runoff with SCS model, In: 2nd Seminar on Studying Watershed Management Issues and Proposing Appropriate Solutions in Karoon and Zayandehrood Watersheds, Iran, Shahrekord, Mar. 9 and 10, 2011:875-881(Full paper published in CD).
- 186) Sadeghi, S.H., Eslamian. S.S., Mousavi, S.F. and **Sadeghi, S.H.R.**, 2011. A Comprehensive view on effects of frosting and melting phenomenon on soil physical characteristics, In: 1st National Seminar on Snow, Ice and Avalanche, Iran, Shahrekord, Mar. 9 and 10, 2011:343-351(Full paper published in CD).
- 187) **Sadeghi, S.H.R.** and Saeidi, P., 2011. Necessity of application of different indices and criteria in selection of optimal models for sediment rating curves, In: Abstracts Proceedings of 7th National Seminar on Watershed Management, Iran, Esfahan, Apr. 27 and 28, 2011: 213(Full paper published in CD, 5p).
- 188) Kiani Harchegani and **Sadeghi, S.H.R.**, 2011. Comparative analysis of heavy metals pollutograph in Urban and Natural Watersheds, In: Abstracts Proceedings of 7th National Seminar on Watershed Management, Iran, Esfahan, Apr. 27 and 28, 2011: 158(Full paper published in CD, 5p).
- 189) Abdollahi, Z., **Sadeghi, S.H.R.** and Khaledi Darvishan, 2011. Drop size distribution of natural rain in Mazandaran climate, In: 3rd National Scientific Seminar of Geography Students, University of Tehran, Iran, Tehran, May 24 and 25, 2011, (Full paper published in CD, 6p).
- 190) Abdollahi, Z., **Sadeghi, S.H.R.** and Khaledi Darvishan, 2011. Estimation of rain drop size distribution using patch method, In: 1st National Seminar on Strategies towards Sustainable Agriculture, Khuzistan Province Payam-e-Noor University, Ahvaz, May 25 and 26, 2011, (Full paper published in CD, 5p).
- 191) **Sadeghi, S.H.R.**, Khazayi, M. and Mirnia, S.Kh., 2011 Forest disturbance effects on sediment yield in Educational Forest Watershed of Tarbiat Modares University, Iran, In: Abstracts



- Proceedings of 1st International Conference on Sustainable Watershed Management, Turkey, Istanbul, Oct. 19-22, 2011: 61-62.
- 192) **Sadeghi, S.H.R.**, Gholami Gohareh, R. and Soleimankhani, Z., 2011. Implication if different effects of firing on hydrologic conditions of range and forest areas, *In: 1st International Conference on Wildfire in Natural Resources Lands, Golestan Province, Gorgan, Oct. 26 to 28, 2011: 36*(Full paper published in CD, 8p).
- 193) **Sadeghi, S.H.R.** and Kiani Harchegani, M., 2011. Modeling suspended sediment concentration and particle size distribution, *In: Proceedings 10th Iranian Hydraulic Conference, Rasht, Iran, Nov. 8-10, 2011, 110*(Full paper published in CD, 6p).
- 194) Saeidi, P., Kiani Harchegani, M. and **Sadeghi, S.H.R.**, 2011. Evaluation of monthly sediment rating curves in estimation of suspended sediment of Zayandehrood Watershed, *In: Proceedings of 10th Iranian Hydraulic Conference, Rasht, Iran, Nov. 8-10, 2011, 112*(Full paper published in CD, 5p).
- 195) **Sadeghi, S.H.R.** and Kheirfam, H., 2012. Effect of sand and gravel mining on suspended and bed load in Kojour River, *In: Proceedings of 5th National Conference on Watershed Management and Water and Soil Resources, Kerman, Iran, Mar. 12, 2012*(Full paper published in CD, 7p).
- 196) Khazae, M., **Sadeghi, S.H.R.**, Shafiee, A. and Mirzaee, M.R., 2012. Study on and analysis of trend in discharge, precipitation, temperature and Evaporation (Case study: Kohyloeih and Boyer Ahmad Province), *In: Proceedings of 5th National Conference on Watershed Management and Water and Soil Resources, Kerman, Iran, Mar. 12, 2012*(Full paper published in CD, 9p).
- 197) **Sadeghi, S.H.R.**, 2012. Application of sedimentgraphs in management of watersheds, *In: Proceedings of 8th National Seminar on Watershed Management, Khorram Abad, May 16 and 17, 2012: 39* (Full paper published in CD, 6p).
- 198) Behzadfar, M. and **Sadeghi, S.H.R.**, 2012. Prioritization of watersheds in North Khorasan Province for soil erosion control, *In: Proceedings of 8th National Seminar on Watershed Management, Khorram Abad, May 16 and 17, 2012: 29* (Full paper published in CD, 8p).
- 199) Abdollahi, Z., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2012. Evaluation of flour method for estimation of drop size distribution of natural rain as one of the rain erosivity factors, *In: Proceedings of 8th National Seminar on Watershed Management, Khorram Abad, May 16 and 17, 2012: 170* (Full paper published in CD, 8p).
- 200) Mostafazadeh, R. and **Sadeghi, S.H.R.**, 2012. Flow simulation using time-area method in Mohammad Abad Watershed in Golestan Province, *In: Proceedings of 8th National Seminar on Watershed Management, Khorram Abad, May 16 and 17, 2012: 204* (Full paper published in CD, 8p).
- 201) Khazae, M., **Sadeghi, S.H.R.** and Mirnia, S.Kh., 2012. Study on nutrient loss due to forest disturbance, *In: Proceedings of 8th National Seminar on Watershed Management, Khorram Abad, May 16 and 17, 2012: 27* (Full paper published in CD, 8p).
- 202) Kheirfam, H. and **Sadeghi, S.H.R.**, 2012. Modeling hydrometeorological behavior of Agh Ghalla Watershed, *In: Proceedings of National Conference on Water Flow and Pollution, Tehran, May 23 and 24, 2012: 29* (Full paper published in CD, 8p).
- 203) **Sadeghi, S.H.R.** and Sadeghi, P.S., 2012. Necessity of deep thought in management of soil and water resources in Haraz Watershed, *In: Proceedings of 1st National Seminar on Damavand Mountain, Amol, Iran, Jun. 29, 2012*(Full paper published in CD, 5p).
- 204) Ghaffari, Gh.A., **Sadeghi, S.H.R.** and Rangavar, A.S., 2012. Comparison of soil moisture distribution along a gully, *In: Proceedings of 3rd National Seminar on Comprehensive Management of Water Resources, Sari, Sep. 10 and 11, 2012: 227* (Full paper published in CD, 5p).
- 205) Zakeri, M.A. and **Sadeghi, S.H.R.**, 2012. Temporal variation of bed load particle size distribution in Kojour River, *In: Proceedings of 31st Seminar on Geologic Science, Tehran, Dec. 1 and 2, 2012: Full paper published in CD, 7p*.
- 206) Khaledi Darvishan, A.V., **Sadeghi, S.H.R.**, Homae, M. and Arabkhedri, M., 2012. Potential use of synthetic color-contrast aggregates and digital image processing technique in soil splash measurements, *In: Proceedings of International Symposium on Erosion and Sediment Yields in the Changing Environment, CAS-Chengdu, Oct. 11 to 15, 2012, IAHS Publication, No. 356: 364-368*.
- 207) Gholami, L., **Sadeghi, S.H.R.** and Homae, M. Efficiency of straw mulch as a soil amendment in reducing the splash erosion, *In: Proceedings of International Symposium on Erosion and Sediment*



- Yields in the Changing Environment, CAS-Chengdu, Oct. 11 to 15, 2012, IAHS Publication, No. 356: 173-177.
- 208) **Sadeghi, S.H.R.**, Saeidi, P. and Kiani Harchegani, M., 2012. Monthly variations of sediment graph in Educational and Research Forest Watershed of Tarbiat Modares University in Iran. *In: Proceedings of International Conference on Sediment Transport Modeling in Hydrological Watersheds and Rivers, Istanbul, Turkey, Nov. 14-16, 2012:347-352.*
- 209) Mohammadi Golrang, B., Lai, F. See, Mashayekhi, M. **Sadeghi, S.H.R.** and Mashayekhi, M., 2012. Implementation of watershed and aquifer mangement as a solution for combating with water crisis in Iran, *In: Proceedings of 1st National Seminar on Water Crisis and its Consequences, Azad University, Ferdows Branch, Iran, May 9, 2012: Full paper published in CD, 12p.*
- 210) Mohammadi Golrang, B., Lai, F. See, Mashayekhi, M. **Sadeghi, S.H.R.** and Mashayekhi, M., 2012. Evaluation of watershed management operations on flood reduction and water crisis combat using HEC-HMS model, *In: Proceedings of 1st National Seminar on Water Crisis and its Consequences, Azad University, Ferdows Branch, Iran, May 9, 2012: Full paper published in CD, 10p.*
- 211) Mohammadi Golrang, B., Lai, F. See, Mashayekhi, M. **Sadeghi, S.H.R.** and Mashayekhi, M., 2012. Qulatative and quantitative estimation of accumulated sediment behind gabion and loose check dams in Kardeh Watershed, *In: Proceedings of 1st National Seminar on Water Crisis and its Consequences, Azad University, Ferdows Branch, Iran, May 9, 2012: Full paper published in CD, 7p.*
- 212) Hazbavi, Z. and **Sadeghi, S.H.R.**, 2013. Analysis of spatial trend of rainfall erosivity in Iran. *In: Proceedings of International Conference on Environmental Crises and its Solutions, Kish International Convention Center, Kish Island, Feb. 13 and 14, 2013: 434-440.*
- 213) Ebrahimi Mohammadi, Sh., **Sadeghi, S.H.R.** and Chapi, K., 2013. Runoff and suspended sediment load from main tributaries into the Zarivar Lake, *In: Proceedings of International Conference on Environmental Crises and its Solutions, Kish International Convention Center, Kish Island, Feb. 13 and 14, 2013: 417-421.*
- 214) Saeidi, P. and **Sadeghi, S.H.R.**, 2013. Application of seasonal and monthly contribution of runoff and suspended sediment in watershed management, *In: Proceedings of National Seminar on Integrated watershed Management and National Production, Malayer University, Feb. 21, 2013:61 (Full paper published in CD, 8p).*
- 215) Kheirfam, H. and **Sadeghi, S.H.R.**, 2013. Effect of sand and gravel mining on granolometry of bed load in Kojour River, *In: Proceedings of National Seminar on Integrated Watershed Management and National Production, Malayer University, Feb. 21, 2013:40 (Full paper published in CD, 6p).*
- 216) Gharemahmudli, S., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2013. Application of GIAS Software for studying effects of mining on variation of river bed sediment granulometry, *In: Proceedings of National Seminar on Integrated Watershed Management and National Production, Malayer University, Feb. 21, 2013:59 (Full paper published in CD, 6p).*
- 217) **Sadeghi, S.H.R.**, Zakeri, M. and Shalihar, A., 2013. Health sustainability evaluation of a watershed using sediment separation method, *In: Proceedings of 1st National Seminar on Strategies Leading to Sustainable Development in Agriculture, Natural Resources and Environment, Iran Research Institute for Natural Disasters, Mar. 10, 2013: Full paper published in CD, 6p.*
- 218) Hazbavi, Z., **Sadeghi, S.H.R.** and Younesi, H.A., 2013. Tracing polyacrylamide from small plots applied for soil erosion control, *In: Proceedings of 3rd National Student Seminar on Rangeland, Watershed and Desert, Karadj, Iran, Mar. 6, 2013: Full paper published in CD, 4p.*
- 219) Hazbavi, Z., **Sadeghi, S.H.R.**, Younesi, H.A. and Behzadfar, M., 2013. Necessity of application of polymers in soil and water resources management, *In: Proceedings of 1st National Seminar on Strategies Leading to Sustainable Development in Agriculture, Natural Resources and Environment, Iran Research Institute for Natural Disasters, Mar. 10, 2013: Full paper published in CD, 4p.*
- 220) Kiani Harchegani, M., **Sadeghi, S.H.R.** and Kiani Harchegani, S., 2013. Seasonal variation of surface water quality between 1st and 2nd Kohrang Tunels and Ghaleh Shahroukh Station, *In: Proceedings of 1st National Seminar on Strategies Leading to Sustainable Development in Agriculture, Natural Resources and Environment, Iran Research Institute for Natural Disasters, Mar. 10, 2013: Full paper published in CD, 8p.*



- 221) Abdi, M., Moradi, H.R. and **Sadeghi, S.H.R.**, 2013. Study on land use changes using RS and GIS (Case study: Eurmieh Shahrchai Watershed), *In: Proceedings of 2nd National Seminar on Climate Changes on its Effects on Agriculture and Environment*, Eurmieh, Iran, Aug. 14, 2013: Full paper published in CD, 8p.
- 222) Abdi, M., Moradi, H.R. and **Sadeghi, S.H.R.**, 2013. Analysis of annual precipitation trend in eurmieh watershed using mann kendall non-parametric test, *In: Proceedings of 2nd National Seminar on Climate Changes on its Effects on Agriculture and Environment*, Eurmieh, Iran, Aug. 14, 2013: Full paper published in CD, 7p.
- 223) **Sadeghi, S.H.R.** and Gharemahmudli, S., 2013. Analysis of precipitation and discharge trends using liu and mann kendall tests in Ghezeghli Watershed, *In: Abstracts Proceedings of 9th National Seminar on Watershed Management Engineering and Science*, Yazd, Oct. 30-31, 2013: 35 (Full paper published in CD, 5p).
- 224) Mostafazadeh, R., **Sadeghi, S.H.R.** and Saddodin, A., 2013. Analysis of relationship between land use distribution and hydrograph properties in Oshnaveyeh Galaz Watershed, West Azarbayejan, *In: Abstracts Proceedings of 9th National Seminar on Watershed Management Engineering and Science*, Yazd, Oct. 30-31, 2013: 180 (Full paper published in CD, 6p).
- 225) Hazbavi, Z., **Sadeghi, S.H.R.** and Younesi, H.A., 2013. Role of soil amendments on runoff, *In: Abstracts Proceedings of 9th National Seminar on Watershed Management Engineering and Science*, Yazd, Oct. 30-31, 2013: 174 (Full paper published in CD, 6p).
- 226) Behzadfar, M., **Sadeghi, S.H.R.**, Hazbavi, Z. and Khanjani, M.J., 2013. Role of freezing and thawing cycle on runoff coefficient, *In: Abstracts Proceedings of 9th National Seminar on Watershed Management Engineering and Science*, Yazd, Oct. 30-31, 2013: 134 (Full paper published in CD, 4p).
- 227) **Sadeghi, S.H.R.** and Saeidi, P., 2013. Optimal decantation period in connection with different suspended sediment concentrations, *In: Abstracts Proceedings of International Conference on Climate Change, Water Resources and Disasters in Mountainous Regions: Building Resilience to Changing Climate*, Nov. 27-29, 2013: 64.
- 228) **Sadeghi, S.H.R.**, Gharemahmudli, S. and Saeidi, P., 2013. Trend analysis of suspended sediment concentration and precipitation in a Large Watershed in Northern Iran, *In: Abstracts Proceedings of International Conference on Climate Change, Water Resources and Disasters in Mountainous Regions: Building Resilience to Changing Climate*, Nov. 27-29, 2013: 64.
- 229) Hazbavi, Z., **Sadeghi, S.H.R.** and Younesi, H.A., 2014. Analysis of relationship between runoff and different levels of application of polyacrylamide, *In: Proceedings of 13th National Iranian Soil Congress*, Ahvaz, Iran, Jan. 28-30, 2014, 4p.
- 230) Davoodi Moghadam, D. and **Sadeghi, S.H.R.**, 2014. Trend analysis of monthly and annual precipitation, runoff and flow discharge in Kardeh Wastershed, *In: Proceedings of 5th National Conference on Water Resources Management*, Tehran, Iran, Feb. 18-19, 2014, 5p.
- 231) **Sadeghi, S.H.R.**, Hazbavi, Z. and Younesi, H.A., 2014. Safe runoff generation through applying proper level of polyacrylamide, *In: Proceedings of 2nd National Seminar on Water Harvesting System*, Mashad, Iran, Feb. 19-20, 2014, 5p.
- 232) Sharifi Moghadam, E., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2014. Variability of amounts of runoff components due to application of organic disposes, *In: Proceedings of Seminar on Natural Resources Management*, Gonbad, Iran, Feb. 27, 2014, 4p.
- 233) Fakher Nikcheh, A., Vafakhah, M. and **Sadeghi, S.H.R.**, 2013. Study on importance of land use management on runoff generation and flooding, *In: Proceedings of National Conference on Flood Management*, Tehran, Iran, May 12 and 13, 2013: 5p.
- 234) Fakher Nikcheh, A., Vafakhah, M. and **Sadeghi, S.H.R.**, 2013. Determination of best infiltration equation for the amameh watersghed, *In: Proceedings of National Conference on Flood Management*, Tehran, Iran, May 12 and 13, 2013: 5p.
- 235) Ebrahimi Mohammadi, Sh., **Sadeghi, S.H.R.** and Chapi, K., 2014. Effect of village as a point source pollution on nutrient loss (Dareh Tefi Village-Zerivar Lake), *In: Proceedings of 3rd National Seminar on Natural Resources Researches with the Emphasis on the Environment*, Oct. 23, 2014: 12p.
- 236) **Sadeghi, S.H.R.**, Karimi, Z. and Bahrami, H.A., 2014. Effectibility of runoff generation from solute PAM application in two rainfall intensities and durations, *In: Proceedings of 2nd National*



- Seminar on Desert with the Emphasis on Management of Desert and Arid Regions, Nov. 11 12, 2014: 5p.
- 237) **Sadeghi, S.H.R.**, Hazbavi, Z. and Younesi, H.A., 2014. Sustainable watershed management through applying Appropriate level of soil amendments, *In: Abstracts Proceedings of 2nd International Conference on Sustainable Watershed Management, Turkey, Sarigerme, 13-17 Oct., 2014, 183-185.*
- 238) **Sadeghi, S.H.R.**, Karimi, Z. and Bahrami. H.A., 2014. Effectability of runoff generation from application of solute polyacrylamide in two rainfall intensities and durations, *In: Proceedings of 2nd National Seminar on Desert, Semnan, Iran, Novemeber 10 and 11, 2014: 5p.*
- 239) **Sadeghi, S.H.R.** and Zakeri, M.A., 2015. Ascription of wash load in sediment yield: A useful tool for proper watershed management, *In: Abstracts Proceedings of International Conference on Natural Resources Management for Food Security and Rural Livelihoods, India, New Delhi, 10-13 Feb. 2015: 155.*
- 240) **Sadeghi, S.H.R.**, Sadoddin, A. and Najafinejad, A., 2015. Necessity of integrated watershed management plan to achieve sustainable livelihood in developing countries, *In: Abstracts Proceedings of International Conference on Natural Resources Management for Food Security and Rural Livelihoods, India, New Delhi, 10-13 Feb. 2015: 554.*
- 241) Hazbavi, Z., **Sadeghi, S.H.R.**, and Younesi, H.A., 2015. Evaluation of soil amendment emission in runoff: A necessary basic for the management of soil erosion control, *In: Abstracts Proceedings of 10th National Seminar on Watershed Management Engineering and Science, Birjand, Feb. 18-19, 2015: 484 (Full paper published in CD, 7p).*
- 242) Sharifi Moghaddam, E., **Sadeghi, S.H.R.**, and Khaledi Darvishan, A., 2015. Applicability of environmentally adapted organic residue on soil erosion management, *In: Abstracts Proceedings of 10th National Seminar on Watershed Management Engineering and Science, Birjand, Feb. 18-19, 2015: 352 (Full paper published in CD, 6p).*
- 243) Karimi, Z., **Sadeghi, S.H.R.** and Bahrami. H.A., 2015. Effect of application type of amendments on soil loss, *In: Abstracts Proceedings of 10th National Seminar on Watershed Management Engineering and Science, Birjand, Feb. 18-19, 2015: 357 (Full paper published in CD, 7p).*
- 244) **Sadeghi, S.H.R.**, Kiani Harchegani, M. and Saeidi, P., 2015. Adaptive management of soil and water resources from haraz to neka watersheds based on temporal variation of runoff and sediment, *In: Abstracts Proceedings of 10th National Seminar on Watershed Management Engineering and Science, Birjand, Feb. 18-19, 2015: 358 (Full paper published in CD, 10p).*
- 245) **Sadeghi, S.H.R.**, Kiani Harchegani, M., Saeidi, P. and Hazbavi, Z., 2015. Application of trend analysis of discharge variation for watershed managements, *In: Abstracts Proceedings of 10th National Seminar on Watershed Management Engineering and Science, Birjand, Feb. 18-19, 2015: 359 (Full paper published in CD, 6p).*
- 246) Gholami, L., **Sadeghi, S.H.R.** and Homaeae, M., 2015. Variation of soil loss using manure amendments, *In: Abstracts Proceedings of 10th National Seminar on Watershed Management Engineering and Science, Birjand, Feb. 18-19, 2015: 354 (Full paper published in CD, 8p).*
- 247) Mohammadi Golrang, B., **Sadeghi, S.H.R.**, Meamarian, H. and Mashayekhi, M., 2015. qualitative evaluation of watershed management measures, *In: Abstracts Proceedings of 10th National Seminar on Watershed Management Engineering and Science, Birjand, Feb. 18-19, 2015: 432 (Full paper published in CD, 19p).*
- 248) Mohammadi Golrang, B., **Sadeghi, S.H.R.**, Meamarian, H. and Mashayekhi, M., 2015. Participatory model in watershed management Projects, *In: Abstracts Proceedings of 10th National Seminar on Watershed Management Engineering and Science, Birjand, Feb. 18-19, 2015: 503 (Full paper published in CD, 18p).*
- 249) Davoodi Rad, A.A. and **Sadeghi, S.H.R.**, 2015. Analysis of sediment yield changes due to industrial development in Shazand Watershed, Markazi Province, *In: Proceedings of 14th Iranian Soil Congress, Rafsanjan Valy-e-Asr University, Sep. 7-9, 2015: 88-93.*
- 250) **Sadeghi, S.H.R.** and Hazbavi, Z., 2015. Adaptive watershed management based on erosivity zonality and trend analyses as a sustainable tool for conformity to climate change, *In: Proceedings of 4th International Conference on Climate Change Adaptation, Sri Lanka, Colombo, Nov. 22-23, 2015: 20-23.*



- 251) **Sadeghi, S.H.R.**, Kheirfam, H., Homae, M. and Zarei Dareki, B., 2016. Application of microorganisms in runoff and soil erosion control, 1st National Conference on Soil Conservation and Watershed Management, Soil Conservation and Watershed Management Research Institute, Iran, Tehran, Feb. 8-10, 2016: 5p.
- 252) Hashemi Aryian, Z., Vafakhah, M. and **Sadeghi, S.H.R.**, 2015. Temporal variability of spatial contribution in runoff generation, *In: Proceedings of Water Engineering Conference and Fair*, Tehran, Iran, Oct. 16 and 17, 2015: 13p.
- 253) **Sadeghi, S.H.R.** and Cerda, A., 2015. Soil erosion in Iran: Issues and solutions, *In: Geophysical Research Abstracts*, EGU General Assembly 2015, Vol. 17, EGU2015-15840-1, 2015.
- 254) Cerda, A., Keesstra, S., **Sadeghi, S.H.R.**, Brevik, E., Giménez Morera, A., Novara, A., Mastro, Reginald E., Jordán, Antonio and Wang, J., 2016. Rock fragment cover controls the sediment detachment in citrus plantations. In EGU General Assembly Conference Abstracts (pp. EPSC2016-6935).
- 255) Mohammadi, S., Homae, M. and **Sadeghi, S.H.R.**, 2016. Study on sediment yield and soil loss in gasolin polluted soils, *In: Proceedings of National Conference on Environment Conservation*, Tehran, Apr. 20, 2016: 252-256.
- 256) Mohammadi, S., Homae, M. and **Sadeghi, S.H.R.**, 2016. Variability of runoff generation and sediment yield from polluted exposed to gasolin soils, *In: Proceedings of National Conference on Environment Conservation*, Tehran, Apr. 20, 2016: 103.
- 257) Davudirad, A.A. and **Sadeghi, S.H.R.**, 2016. Land degradation sensitivity of Shazand Watershed in Markazi Province to population and managerial factors, *In: Proceedings of 11th National Seminar on Watershed Management and Engineering*, Yasuj, Iran, Apr. 19 to 21, 2016:367-374.
- 258) **Sadeghi, S.H.R.** and Hazbavi, Z. 2016. Watershed health assessment based on soil loss using reliability, resilience and vulnerability framework. *In: Proceedings of 19th PSSST Annual Meeting and Scientific Conference*, Legaspi City, Albay, May 18-20, 2016: 44-46.
- 259) Hazbavi, Z., **Sadeghi, S.H.R.** and Kiani Harchegani, M. 2016. Application of biochar on volume and temporal variability of runoff coefficient. *In: Proceedings of 3rd WASWAC Conference*, Belgrade Serbia, Aug. 22-26, 2016: 186-187.
- 260) Kiani Harchegani, M., **Sadeghi, S.H.R.** and Hazbavi, Z., 2016. Effect of application of biochar produced from sugarcane wastes on runoff from large laboratorial plots. *In: Abstracts Proceedings of 10th Congress on Progress Pioneers*, Tehran, Iran, Dec. 8, 2016: 369.
- 261) Kiani Harchegani, M., **Sadeghi, S.H.R.** and Asadi, H., 2016. Importance and application of sediment particle size distribution science in natural environments. *In: Abstracts Proceedings of 10th Congress on Progress Pioneers*, Tehran, Iran, Dec. 8, 2016: 370.
- 262) **Sadeghi, S.H.R.**, Hazbavi, Z. and Cerda, A., 2017. Watershed health assessment to monitor land degradation. *In: EGU 2017 Assembly*, Vienna, Austria, Apr., 23-28, 2017: 19, 2p.
- 263) Gholami, L., **Sadeghi, S.H.R.** and Homae, M., 2017. Splash erosion control using sheep manure. *In: Abstracts Proceedings of 14th International Symposium on the Interactions between Sediments and Water*, Taormina, Italy, Jun. 17-22, 2017: 16.
- 264) Khaledi Darvishian, A.V., **Sadeghi, S.H.R.**, Homae, M., Arabkhedri, M. and Gholami, L., 2017. Sediment budgets at plot scale. *In: Abstracts Proceedings of 14th International Symposium on the Interactions between Sediments and Water*, Taormina, Italy, Jun. 17-22, 2017: 15.
- 265) Khaledi Darvishian, A.V., Khorsand, M., **Sadeghi, S.H.R.** and Mirchooli, F., 2017. Analyzing the spatial distribution of erosion and deposition using optic 3D scanner at small plot scale. *In: Abstracts Proceedings of 14th International Symposium on the Interactions between Sediments and Water*, Taormina, Italy, Jun. 17-22, 2017: 9.
- 266) Moradi Dashtpajardi, M., **Sadeghi, S.H.R.** and Moradi, H.R., 2017. Role of concordant performance of cell sizes of different scales of topographic maps on estimation analysis of time of concentration estimation in Oshnaveyeh Galazchai Watershed, *In: Proceedings of 2nd National Iranian Conference on Hydrology*, Shahrekord, Iran, Jul. 11 and 12, 2017: 9p.
- 267) Kazemi Kia, S., **Sadeghi, S.H.R.**, Erfanian, M. and Hazbavi, Z., 2017. Necessity of selection of representative watersheds for crisis management in Iran, *In: Proceedings of 12th National Seminar on Watershed Management and Engineering*, Malayer, Iran, Oct. 10 and 11, 2017:122-129.



- 268) Adhami, M., **Sadeghi, S.H.R.** and Sheikh Mohammadi, M., 2017. Damage mitigation to watershed resources through tourism, *In: Proceedings of 12th National Seminar on Watershed Management and Engineering*, Malayer, Iran, Oct. 10 and 11, 2017:171-177.
- 269) Davudirad, A.A., **Sadeghi, S.H.R.**, Paymozd, Sh. and Sadoddin, A., 2017. Simulation of land degradation based on the system dynamic strategy, *In: Proceedings of 12th National Seminar on Watershed Management and Engineering*, Malayer, Iran, Oct. 10 and 11, 2017:65-70.
- 270) Asdi Nelivan, O., Sadoddin, A., **Sadeghi, S.H.R.** and Hazbavi, Z., 2017. Analysis of watershed health and sustainability assessment methods. *In: Proceedings of 12th National Seminar on Watershed Management and Engineering*, Malayer, Iran, Oct. 10 and 11, 2017:136-142.
- 271) **Sadeghi, S.H.R.**, Sadoddin, A. and Najafinejad, A., 2017. Progressive watershed management approaches in Iran. *In: Proceedings of 19th International Conference on Natural Resources Management and Ecosystems*, Cape Town, South Africa Nov. 2 - 3, 2017: *International Journal of Environmental and Ecological Engineering (WASET)*: 11(11): 924-927.
- 272) **Sadeghi, S.H.R.** and Hazbavi, Z., 2017. Necessity of watershed health assessment in integrated soil and water resources management, *In: Proceedings of 2nd IAHS Panta Rhei International Conference on Water System Knowledge Innovation and Its Practies in Developing Countries*, Iran, Gorgan, Nov. 20-22, 2017: 22-23.
- 273) Sharifi Moghadam, E. and **Sadeghi, S.H.R.**, 2018. Applicability of aater-energy-food nexus in water resources management, *In: Proceedings of 1st National Seminar on Strategies for Water Resources and Environmental Challenges*, Sari, Iran, April 30 and 31, 2018: 132-137.
- 274) **Sadeghi, S.H.R.** and Hazbavi, Z., 2018. Adaptive watershed management based on health and sustainability assesemnt, *In: Proceedings of 3rd National Conference on Soil Conservation and Watershed Management*, Soil Conservation and Watershed Management Research Institute, Iran, June 19 and 20, 2018: 10p.
- 275) Karimi, Z. and **Sadeghi, S.H.R.**, 2018. Runoff control using soil amendmets, *In: International Conference in Memory of Outstanding Russian Hydrologist Yury Vinogradov "3rd Vinogradov Conference: Facets of Hydrology*, Saint Petersburg, Russia, March 28-30, 2018: 830-833.
- 276) **Sadeghi, S.H.R.**, Yaghmaei, H., Moradi H.R. and Gholamalifard, M., 2018. Land degradation change in Lower Qom Rood watershed, Central Iran, *In: The 2nd International Young Scientists Forum on Soil and Water Conservation and ICCE Symposium 2018*, Moscow, Russia, August 27-31, 2018: 6p.
- 277) **Sadeghi, S.H.R.**, Kazemi Kia, S., Erfanian, M., Movahed, S.M.S. and Hazbavi, Z., 2018. Proper monitoring of a region through recognizing representative watershed, *In: The 2nd International Young Scientists Forum on Soil and Water Conservation and ICCE Symposium 2018*, Moscow, Russia, August 27-31, 2018: 6p.
- 278) Hazbavi, Z., **Sadeghi, S.H.R.** and Gholamalifard, M., 2018. Soil erosion based watershed health dynamic analysis, *In: The 2nd International Young Scientists Forum on Soil and Water Conservation and ICCE Symposium 2018*, Moscow, Russia, August 27-31, 2018: 6p.
- 279) Kiani-Harchegani, M., **Sadeghi, S.H.R.** and Ghahremani, A., 2018. Intra-storm variability of coefficient of variation of runoff and soil loss in consecutive storms at experimental plot scale, *In: The 2nd International Young Scientists Forum on Soil and Water Conservation and ICCE Symposium 2018*, Moscow, Russia, August 27-31, 2018: 5p.
- 280) Davoudi Rad, A.A. and **Sadeghi, S.H.R.**, 2018. Analyzing land degradation trend based on LD syndromes, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 6p.
- 281) Hazbavi, Z., **Sadeghi, S.H.R.** and Gholamalifard, M., 2018. Comparative analysis of changeability of health assessment indicators of pressure, state and response in the Shazand Watershed, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 7p.
- 282) Kheirfam, H. and **Sadeghi, S.H.R.**, 2018. Machanisms and functionality of cyanobacdteria in bio-conservation of soil and water, *In: 13th National Conference on Watershed Management*



- Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment, Ardabil, Iran, Oct. 2 and 3, 2018: 9p.
- 283) Kiani Harchegani, M., **Sadeghi, S.H.R.** and Asadi, H., 2018. Application of sediment particle Size Distribution (SPSD) for Soil Erosion Management, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 9p.
- 284) Kiani Harchegani, M., **Sadeghi, S.H.R.**, Falahatkar, S., Hazbavi, Z. and Davoudi Rad, A.A., 2018. Analysis of land degradation of rangeland ecosystems of Shazand Watershed using soil physicochemical properties, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 8p.
- 285) Hashemi Ariyan, Z., Vafakhah, M., **Sadeghi, S.H.R.** and Adami, M., 2018. Study on runoff variations in work units of Gonbad Watershed in Hamedan Province, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 6p.
- 286) Sedighi, F., Khodamoradi, H., Khaledi Darvishan, A.V. **Sadeghi, S.H.R.** and Zare M.R., 2018. Feasibility of ¹³⁷Cs activity in soil using mean annual rainfall, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 6p.
- 287) **Sadeghi, S.H.R.**, Ebrahimi Gatekesh, Z., Jafari, F. and Farzi, P., 2018. Health assessment of asiabrud watershed using conceptual model of pressure-state-response, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 6p.
- 288) Hatefi, M., **Sadeghi, S.H.R.**, Erfanzadeh, R. and Behzadfar, M., 2018. Effectibility of soil loss from impacts of vegetation cover in small experimental plots under freezing and thawing cycle, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 6p.
- 289) Jafarpour, A., Sharifi Moghadam, E. and **Sadeghi, S.H.R.**, 2018. A review on the application of grain for green project in soil erosion management, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 6p.
- 290) **Sadeghi, S.H.R.**, Kazemi Kia, S., Hazbavi, Z. and Erfanian, M., 2018. Achievements of the selection of representative watersheds in Homogeneous Regions of the Country, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 6p.
- 291) Mirchooli, F., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2018. Reconnaissance assessment of watershed sustainability using spatial and temporal variations of vegetation cover, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 6p.
- 292) **Sadeghi, S.H.R.**, Sadoddin, A., Hazbavi, Z., Asadi Nelivan, O. and Zare Garizi, A., 2018. A review analysis on the concepts and methods for assessment of watershed health and sustainability, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 7p.
- 293) Sadoddin, A., **Sadeghi, S.H.R.**, Zare Garizi, A., Hazbavi, Z. and Asadi Nelivan, O., 2018. An index-based framework for integrated assessment of watershed health and sustainability with an emphasis on future scenarios, *In: 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment*, Ardabil, Iran, Oct. 2 and 3, 2018: 7p.



- 294) Hazbavi, Z., **Sadeghi, S.H.R.** and Gholamalifard, M., 2018. Land cover based watershed health assessment, *In: IX International Scientific Agriculture Symposium (AGROSYM 2018)*, Jahorina, Bosnia and Herzegovina, Oct., 4-7, 2018: 803.
- 295) Kiani Harchegani, M., **Sadeghi, S.H.R.** and Boor, S., 2018. Comparative analysis of soil variables in different land uses of the Shazand Watershed, Iran, *In: IX International Scientific Agriculture Symposium (AGROSYM 2018)*, Jahorina, Bosnia and Herzegovina, Oct., 4-7, 2018: 801.
- 296) **Sadeghi, S.H.R.**, Mirchooli, F., and Khaledi Darvishan, A.V., 2018. Spatio-temporal dynamic of land degradation using remote sensing-based index, *In: IX International Scientific Agriculture Symposium (AGROSYM 2018)*, Jahorina, Bosnia and Herzegovina, Oct., 4-7, 2018: 802.
- 297) **Sadeghi, S.H.R.**, Hazbavi, Z. and Gholamalifard, M., 2018. Accuracy of reliability-resilience-vulnerability framework in watershed health assessment, *Green Room 2018*, Podgorica, Montenegro, Nov., 1-3, 2018: 159.
- 298) Khodamoradi, H., Khaledi Darvishan, A.V., **Sadeghi, S.H.R.** and Zare, M.R., 2019. The existence and depth profile of ¹³⁷Cs in reference soil in the south of Kurdistan Province, *In: International Conference on Society and Environment*, University of Tehran, Iran, Sep. 2, 2018: 1-9.
- 299) Sadeghi Satri, M., **Sadeghi, S.H.R.**, Zarei Darki, B. and Kheirfam, H., 2018. Effects of cyanobacteria inoculation on time to runoff during natural storm at experimental small plots, *In: The 4th International Conference on New Findings in Agricultural Science, Natural Resources and the Environment*, Tehran, Iran, Sep. 11, 2018: 1-7.
- 300) **Sadeghi, S.H.R.** and Hazbavi, Z., 2018. Magnitude and environmental impacts of soil erosion and sediment related problems in Iran, *In: International Conference, 1st Young Researchers' Conference-Erosion and Torrent Control (ETC 2018)*, Belgrade, Serbia, Nov. 28-30, 2018: 28.
- 301) **Sadeghi, S.H.R.**, Kheirfam, H., Zarei Darki, B., Najafinejad, A. and Gharemahmudli, S., 2019. Application of cyanobacteria: A new approach to water and soil conservation, *In: 2nd National Iranian Conference on Phycology*, Tarbiat Modares University, Tehran, Iran, Jan. 29-30, 2019: 2p.
- 302) **Sadeghi, S.H.R.** and Hazbavi, Z., 2019. Overview of relationship between watershed health and rainwater harvesting systems, *In: 7th National Conference on Rainwater Harvesting Systems*, Tehran, Iran, Feb. 20-21, 2019: 644-650.
- 303) **Sadeghi, S.H.R.** and Hazbavi, Z., 2019. Integrated watershed management vis-a-vis soil and water turbulent conditions, *In: Bhan, S. and Arora, S. (Eds.) Souvenir, international conference on Soil and Water Resources Management for Climate Smart Agriculture, Global Food and Livelihood Security*, Soil Conservation Society of India, New Delhi, India, 27-30.
- 304) Ebrahimi Gatekesh, Z. and **Sadeghi, S.H.R.**, 2019. Application of adaptive management in assessment of flood control in Golestan Province, *In: 14th National Conference on Watershed Management Sciences and Engineering of Iran*, Urmia University, Urmia, Iran, July 16 and 17, 2019: 7 p.
- 305) Kiani-Harchegani, M. and **Sadeghi, S.H.R.**, 2019. Application of land degradation neutrality in water and soil resources management, *In: 14th National Conference on Watershed Management Sciences and Engineering of Iran*, Urmia University, Urmia, Iran, July 16 and 17, 2019: 8 p.
- 306) Jafarpour, A., **Sadeghi, S.H.R.**, Zarei-Darki, B. and Homaei, M., 2019. Spatial and temporal distribution of application of microorganism in soil and water resources management. *In: 14th National Conference on Watershed Management Sciences and Engineering of Iran*, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 307) Sharifi Moghadam, E., **Sadeghi, S.H.R.**, Delavar, M. and Zarghami, M., 2019. Application of water-energy-food nexus in agricultural water management for the Shazand Watershed, *In: 14th National Conference on Watershed Management Sciences and Engineering of Iran*, Urmia University, Urmia, Iran, July 16 and 17, 2019: 7 p.
- 308) Kheirfam, H., **Sadeghi, S.H.R.** and Zarei Darki, B. 2019. Field inoculation of cyanobacteria to control runoff, *In: 14th National Conference on Watershed Management Sciences and Engineering of Iran*, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 309) Mahmoodi, B., Khaledi Darvishan, A.V. and **Sadeghi, S.H.R.**, 2019. Application of SedInConnect Software in evaluation of structural sediment connectivity (Case study: Khamsan Representative Watershed), *In: 14th National Conference on Watershed Management Sciences and Engineering of Iran*, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.



- 310) Moradi Dashtpajardi, M, **Sadeghi, S.H.R.** and Moradi Rekabdarkoolai HR, 2019. Economic optimal scale to simulate hydrograph components in Galazchai Watershed, West Azarbayejan Province. In: 14th National Conference on Watershed Management Sciences and Engineering of Iran, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 311) Ahmadi, S. and **Sadeghi, S.H.R.**, 2019. Reducing land degradation in the mining exploration areas using geo botany technique. In: 14th National Conference on Watershed Management Sciences and Engineering of Iran, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 312) Kazemi Kia, S., **Sadeghi, S.H.R.**, Erfanian, M. and Hazbavi, Z., 2019. Optimal matrix composition of input datasets in identifying representative watershed in the Urmia Lake Watershed, In: 14th National Conference on Watershed Management Sciences and Engineering of Iran, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 313) Mousavi, S.V., **Sadeghi, S.H.R.** and Hayatzadeh, M., 2019. Role of rainfall in the 2019 flood event in Gorganrood Basin. In: 14th National Conference on Watershed Management Sciences and Engineering of Iran, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 314) Farzi, P., **Sadeghi, S.H.R.** and Jomehpour, M., 2019. Capacity building of flood resilience enhancement. In: 14th National Conference on Watershed Management Sciences and Engineering of Iran, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 315) Davoudirad, A.A., **Sadeghi, S.H.R.**, Mohammadi, A.H. and Azimi, R., 2019. Changes in land degradation sensitivity and its trend based on resilience and vulnerability indicators (Case study: Southwest of Markazi Province). In: 14th National Conference on Watershed Management Sciences and Engineering of Iran, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 316) KatebiKord, A., **Sadeghi, S.H.R.** and Singh, V.P. 2019. Effects of different methods and algorithms on estimation of soil erosion topography factor. In: 14th National Conference on Watershed Management Sciences and Engineering of Iran, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 317) Zare, S., **Sadeghi, S.H.R.** and Khosravani, A., 2019. Effectability of time to runoff from application of residual fines produced from old corrugated containers. In: 14th National Conference on Watershed Management Sciences and Engineering of Iran, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 318) Mehri, S., Momzaei, A. and **Sadeghi, S.H.R.**, 2019. Application of bioengineering ecology in integrated watershed management. In: 14th National Conference on Watershed Management Sciences and Engineering of Iran, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 319) Mirchooli, F., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2019. Relationship between area of agricultural land uses and soil erosion in the Shazand Watershed, Iran, In: 14th National Conference on Watershed Management Sciences and Engineering of Iran, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 320) Zabihi, M., Kalehhouei, M. and Gholamalifard, M., **Sadeghi, S.H.R.**, 2019. Analysis of the land use Change of Urmia Township using LCM. In: 14th National Conference on Watershed Management Sciences and Engineering of Iran, Urmia University, Urmia, Iran, July 16 and 17, 2019: 6 p.
- 321) Rostami, K., Vaezi, A.R., **Sadeghi, S.H.R.** and Abbasabadi, H. 2021. Investigation of physical and shemical sediments properties of Razin Basin, In: Proceedings of the 16th Iranian Soil Science Congress, University of Zanjan, Iran, August 27-29, 2019.
- 322) **Sadeghi, S.H.R.**, Kazemi Kia, S., Hazbavi, Z., Erfanian, M. and Movavahe, S.M.S, 2019. Spatial representativeness analysis for policy-making of the Gavkhouni Watershed, Central Iran, In: International Conference on Soil and Water Resource Management for Climate Smart Agriculture, Global Food and Livelihood Security, New Delhi, India, Nov. 5 to 9, 2019, p313.
- 323) Hazbavi, Z., **Sadeghi, S.H.R.** and Golamalifard, M., 2019. Field efficiency assessment of pressure-state-response (PSR) model for watershed health characterization (Case stusy: Shazand Watershed-Iran. In: International Conference on Soil and Water Resource Management for Climate Smart Agriculture, Global Food and Livelihood Security, New Delhi, India, Nov. 5 to 9, 2019, p331.



- 324) **Sadeghi, S.H.R.** and Sadeghi, P.S., 2019. Position of water harvesting system in watershed management. *In: 8th National Conference on Rainwater Harvesting Systems, Mashhad, Iran, Nov. 26 and 27, 2019: 5p.*
- 325) **Sadeghi, S.H.R.** Kiani-Harchegani, M., Hazbavi, Z., Younesi, H.A., Sadeghi, P.S., Angulo-Jaramillo, R. and Lassabatere, L., 2020. How different are effects of vinasse biochar on soil erosion in Loess and Marl soils? *In: Geophysical Research Abstracts, EGU General Assembly 2020, Vol. 17, EGU2020-5080.*
- 326) **Sadeghi, S.H.R.**, 2020. Land degradation management through watershed health assessment, *In: GEA (Geo Eco-Eco Agro) International Conference, Montenegro, 28-31 May 2020: 34.*
- 327) **Sadeghi, S.H.R.**, 2020. Watershed resources management, INTERNATIONAL WEB-CONFERENCE–Resource Management and Biodiversity Conservation to Achieve Sustainable Development Goals, Lucknow U.P., India, September 11-12, 2020: 13-15.
- 328) Nasiri Khiavi, A., Vafakhah, M. and **Sadeghi, S.H.R.**, 2020. Application of stakeholder-based decision-making methods in safe flood management, *In: 15th National Conference on Watershed Management Sciences and Engineering of Iran, Sari Agricultural Science and Natural Resources University, Sari, Iran, October 27 and 28, 2020: 3-4.*
- 329) Jafarpour, A. and **Sadeghi, S.H.R.**, 2020. Analysis of rill formation with additional runoff injection at plot scale, *In: 15th National Conference on Watershed Management Sciences and Engineering of Iran, Sari Agricultural Science and Natural Resources University, Sari, Iran, October 27 and 28, 2020: 16.*
- 330) Jafarpour, A., Moomzaei, A. and **Sadeghi, S.H.R.**, 2020. Conservation agriculture: a new approach soil and water resources security, *In: 15th National Conference on Watershed Management Sciences and Engineering of Iran, Sari Agricultural Science and Natural Resources University, Sari, Iran, October 27 and 28, 2020: 17.*
- 331) Gharemahmudli, S., Najafinejad, A., **Sadeghi, S.H.R.**, Zarei Darki, B., Mohammadian Behbahani, A. and Kheirfam, H., 2020. Ameliorating carbon and nitrogen contents and soil stability of a soil under freeze-thaw cycle through inoculating cyanobacteria, *In: 15th National Conference on Watershed Management Sciences and Engineering of Iran, Sari Agricultural Science and Natural Resources University, Sari, Iran, October 27 and 28, 2020: 21-22.*
- 332) Kalehhouei, M., Zabihi Seilabi, M., Sadeghi, P.S., Khaledi Darvishan, A., Spalovich, V. and **Sadeghi, S.H.R.**, 2020. Application of the IntEro model for soil erosion estimation in the Shazand Watershed, Markazi Province, Iran, *In: 15th National Conference on Watershed Management Sciences and Engineering of Iran, Sari Agricultural Science and Natural Resources University, Sari, Iran, October 27 and 28, 2020: 38.*
- 333) Farzi, P., **Sadeghi, S.H.R.** and Jomehpour, M., 2020. Application of resilience concept in the analysis of basic resources security for the Shazand Watershed, Markazi Province, Iran, *In: 15th National Conference on Watershed Management Sciences and Engineering of Iran, Sari Agricultural Science and Natural Resources University, Sari, Iran, October 27 and 28, 2020: 51.*
- 334) Zare, S., **Sadeghi, S.H.R.** and Khosravani, A., 2020. Addition potential of nanofibers in reducing runoff start time in small experimental plots, *In: 15th National Conference on Watershed Management Sciences and Engineering of Iran, Sari Agricultural Science and Natural Resources University, Sari, Iran, October 27 and 28, 2020: 57.*
- 335) Ebrahimi Gatekash, Z. and **Sadeghi, S.H.R.**, 2020. Zoning and health analysis in identifying the problems of the mikhsaz watershed in western mazandaran, Iran, *In: 15th National Conference on Watershed Management Sciences and Engineering of Iran, Sari Agricultural Science and Natural Resources University, Sari, Iran, October 27 and 28, 2020: 60.*
- 336) Ashgvar Heydari, M. and **Sadeghi, S.H.R.**, 2020. Application of the analysis of the effect of successive storms in water management plots induced by rill erosion, *In: 15th National Conference on Watershed Management Sciences and Engineering of Iran, Sari Agricultural Science and Natural Resources University, Sari, Iran, October 27 and 28, 2020: 85.*
- 337) Gharemahmudli, S., **Sadeghi, S.H.R.** and Najafinejad, A., 2021. Functionality of soil microorganisms in bio-conservation of water and soil. *In EGU General Assembly Conference Abstracts, held online 19-30 April, EGU21-16324, Doi.org/10.5194/egusphere-egu21-16324.*



- 338) Gharemahmudli, S., Najafinejad, A., **Sadeghi, S.H.R.**, Zarei Darki, B., Mohammadian Behbahani, A., and Kheirfam, H., 2021. The effect of soil bacterial inoculation on reducing soil surface runoff under freezing-thawing conditions, *In: Proceedings of the 2nd International and 5th National Conference on Conservation of Natural Resources and Environment, University of Mohaghegh Ardabili (UMA), Ardabil, Iran, 09 and 10 June, 2021: 797-806.*
- 339) Farzadfar, E., **Sadeghi, S.H.R.** and Tanha Ziyarati, M., 2021. Effectability of runoff generation from application of molecular sieve waste amendments produced in refinery, *In: Proceedings of the 2nd International and 5th National Conference on Conservation of Natural Resources and Environment, University of Mohaghegh Ardabili (UMA), Ardabil, Iran, 09 and 10 June, 2021: 2482-2488.*
- 340) AshgvrHeydari, M. and **Sadeghi, S.H.R.**, 2021. Effect of successive rainfalls on soil loss due to rill erosion, *In: Proceedings of the 2nd International and 5th National Conference on Conservation of Natural Resources and Environment, University of Mohaghegh Ardabili (UMA), Ardabil, Iran, 09 and 10 June, 2021: 2489-2495.*
- 341) Sharifi Moghani, M., **Sadeghi, S.H.R.** and Bahramifar, N., 2021. Introducing runoff and soil loss control approach using refinery sulfur wastes, *In: Proceedings of 2nd International and 5th National Conference on Conservation of Natural Resources and Environment, University of Mohaghegh Ardabili (UMA), Ardabil, Iran, 09 and 10 June, 2021: 3114-3120.*
- 342) **Sadeghi, S.H.R.** and Sadeghi, P.S., 2021. Post-COVID19 Perceptions for soil and water resources conservation, *In: 3rd International Youth Forum on Soil and Water Conservation, Tarbiat Modares University, Noor, Iran, 16-21 October 2021: 60.*
- 343) Jafarpour, A., **Sadeghi, S.H.R.**, Zarei Darki, B. and Homae, M., 2021. Changes in hydrologic components from a mid-sized plots due to cyanobacterization, *In: 3rd International Youth Forum on Soil and Water Conservation, Tarbiat Modares University, Noor, Iran, 16-21 October 2021: 48.*
- 344) Gharemahmudli, S., **Sadeghi, S.H.R.**, Najafinejad, A., Zarei Darki, B., Mohammadian Behbahani, A. and Kheirfam, H., 2021. Controlling enhanced surface runoff components resulted from a freezing-thawing cycle through inoculating of soil microorganisms *In: 3rd International Youth Forum on Soil and Water Conservation, Tarbiat Modares University, Noor, Iran, 16-21 October 2021: 19.*
- 345) Sharifi Moghadam, E., **Sadeghi, S.H.R.**, Zarghami, M. and Delavar, M., 2021. Introduction and application of soil-water-energy-food nexus approach for designating sustainable agricultural management pattern at watershed scale, *In: 3rd International Youth Forum on Soil and Water Conservation, Tarbiat Modares University, Noor, Iran, 16-21 October 2021: 45.*
- 346) Farzi, P., **Sadeghi, S.H.R.** and Jomepour, M., 2021. Application of resilience concept in the watershed management via the combined BWM and TOPSIS method, Case study: Shazand Watershed, Markazi Province, *In: 3rd International Youth Forum on Soil and Water Conservation, Tarbiat Modares University, Noor, Iran, 16-21 October 2021: 66.*
- 347) Hazbavi, Z., **Sadeghi, S.H.R.**, Ghanbari, F. and Corraera, R.E., 2021. Ecological and dynamic health of a watershed assessed by the multi-dimensional framework of vigor-organization-resilience, *In: 3rd International Youth Forum on Soil and Water Conservation, Tarbiat Modares University, Noor, Iran, 16-21 October 2021: 86.*
- 348) Kheirfam, H., Asadzadeh, F. and **Sadeghi, S.H.R.**, 2021. Biological soil crusts responsible for degraded lands restoration: Accomplished steps and future perspective, *In: 3rd International Youth Forum on Soil and Water Conservation, Tarbiat Modares University, Noor, Iran, 16-21 October 2021: 94.*
- 349) Sadoddin, A., Sheikh, V.B., Najafinejad, A., **Sadeghi, S.H.R.** and Zare, A., 2021. A framework for participatory watershed governance and management, *In: 3rd International Youth Forum on Soil and Water Conservation, Tarbiat Modares University, Noor, Iran, 16-21 October 2021: 17.*
- 350) Pourfallah Asadabadi, S., **Sadeghi, S.H.R.**, Vafakhah, M. and Delavar, M., 2021. Role of rainwater harvesting on the water-energy-food nexus, *In: Proceedings of 10th International Conference on Water Catchment System, University of Kordestan, Sanandadj, Iran, 24-25 November 2021: 1-7.*
- 351) Ebrahimi Gatekesh, Z. and **Sadeghi, S.H.R.**, 2022. Designing problem-based watershed management implementation measures in adaptive management Cycle (Case Study: Mikhsaz Watershed in West Mazandaran, *In: 16th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Development, IRAN, Shiraz, 8&9 March 2022:4.*



- 352) Farzi, P, **Sadeghi, S.H.R.**, and Jomepour, M., 2022. Prioritization of factors affecting the resilience of Shazand watershed, *In Abstract Proceedings: 16th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Development, IRAN, Shiraz, 8&9 March 2022:37.*
- 353) Ghavimi Panah, M.H, Gholami, L, Kavian, A. and **Sadeghi, S.H.R.**, 2022. Assessment of watershed health based on environmental changes, *In Abstract Proceedings: 16th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Development, IRAN, Shiraz, 8&9 March 2022:6.*
- 354) Kalehhouei, M, **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2022. Morphometry of rainfall main components under laboratory conditions for soil erosion studies, *In Abstract Proceedings: 16th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Development, IRAN, Shiraz, 8&9 March 2022:7.*
- 355) Zabihi Silabi, M., Katebikord, A., **Sadeghi, S.H.R.** and Mostafazadeh, R., 2022. The changeability of soil erosion in extreme storms due to land capability in priority watersheds of Galazchai Watershed, *In Abstract Proceedings: 16th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Development, IRAN, Shiraz, 8&9 March 2022:31.*
- 356) Gharemahmudli, S. and **Sadeghi, S.H.R.**, 2022. Analysis of surface cracks pattern of soil inoculated with bacteria using PCAS Software. *In: Proceedings of 5th National Conference on Soil Conservation and Watershed Management, Tehran, Iran, My 17 and 18, 2022: 346-355.*
- 357) Bahlakeh, M., Zare, S. and **Sadeghi, S.H.R.**, 2022. Application of internet of things in the management of some natural disasters of watersheds. *In: Proceedings of 5th National Conference on Soil Conservation and Watershed Management, Tehran, Iran, My 17 and 18, 2022: 538-543.*
- 358) **Sadeghi, S.H.R.**, Zabihi Silabi, M., Katebi Kord, A. and Mostafazadeh, R., 2022. The role of land use improvement in reducing annual soil erosion. *In: Proceedings of 5th National Conference on Soil Conservation and Watershed Management, Tehran, Iran, My 17 and 18, 2022: 544-551.*
- 359) Zare, S., Shekohideh, H., Bahlekeh, B., Chamani, R. and **Sadeghi, S.H.R.**, 2022. Effectiveness of indigenous knowledge in sustainable management of soil and water conservation, *In: Proceedings of the 3rd International and 6th National Conference on Conservation of Natural Resources and Environment, University of Mohaghegh Ardabili (UMA), Ardabil, Iran, 12 and 13 September, 2022: 194.*
- 360) Ebrahimi Gatekesh, Z. and **Sadeghi, S.H.R.**, 2023. Application of watershed health framework in performance evaluation of watershed Measures (A Case Study of the Mikhsaz Watershed in the West of Mazandaran Province, Iran), *In: 17th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Food Security, IRAN, Jiroft, 28 & 29 February 2023: 6p.*
- 361) Jafarpoor, A., **Sadeghi, S.H.R.**, Gharemahmudli, S. and Homae, M., 2023. Comparative estimation of soil loss due to rill erosion using two methods of morphometry and decantation procedures, *In: 17th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Food Security, IRAN, Jiroft, 28 & 29 February 2023: 6p.*
- 362) Mumzaei, A., **Sadeghi, S.H.R.**, Zarei Darki, B. and Homae, M., 2023. Controlling runoff generation in soils contaminated with petroleum using soil microorganisms, *In: 17th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Food Security, IRAN, Jiroft, 28 & 29 February 2023: 6p.*
- 363) Pourfallah Asadabadi, S., **Sadeghi, S.H.R.**, Vafakhah, M. and Delavar, M., 2023. Role of hydrological factors on health status of the Pishkoh watershed, Yazd Province, Iran, *In: 17th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Food Security, IRAN, Jiroft, 28 & 29 February 2023: 7p.*
- 364) **Sadeghi, S.H.R.**, Zabihi Seilabi, M., Katebikord, A. and Bahlekeh, M., 2023. Trend analysis of changes in suspended sediment concentration with vegetation cover, rainfall, and discharge in the Panjab watershed, Mazandaran Province, Iran, *In: 17th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Food Security, IRAN, Jiroft, 28 & 29 February 2023: 6p.*



- 365) **Sadeghi, S.H.R.**, Meisina, C. and Maeker, M., 2023. Watershed health monitoring-based strategy: A tool for watershed adaptive management, *In: 5th WASWAC World Conference*, Palacký University, Olomouc, Czech Republic, 19–23 June 2023: 69.
- 366) Kalehhouei, M., **Sadeghi, S.H.R.** and Khaledi Darvishan, A., 2023. Interactive effects of wind velocity and slope gradient on splash erosion, *In: 5th WASWAC World Conference*, Palacký University, Olomouc, Czech Republic, 19–23 June 2023: 91.
- 367) Mirchooli, F., Zabihi Seilabi, M. and **Sadeghi, S.H.R.**, 2023. Changes in watershed sustainability due to air pollution, *In: 5th WASWAC World Conference*, Palacký University, Olomouc, Czech Republic, 19–23 June 2023: 121-122.
- 368) Gharemahmudli, S., **Sadeghi, S.H.R.** and Najafinejad, A., 2023. Effects of inoculation of soil microorganisms on organic matter, stability of aggregates and soil available phosphorus under freeze-thaw cycle, *In: 5th WASWAC World Conference*, Palacký University, Olomouc, Czech Republic, 19–23 June 2023: 127-128.
- 369) Bahlakeh, M. and **Sadeghi, S.H.R.**, 2023. Assessment of hydrological viability of Shazand watershed. *In: Proceedings of 6th National Conference on Soil Conservation and Watershed Management*, Tehran, Iran, July 26 and 27, 2023: 560-570.
- 370) Zare, S., **Sadeghi, S.H.R.**, Chamani, R. and Moosavi, V., 2023. Health zoning of the southern watersheds of the Caspian Sea with the combined drought index SDI. *In: Proceedings of 6th National Conference on Soil Conservation and Watershed Management*, Tehran, Iran, July 26 and 27, 2023: 608-622.
- 371) **Sadeghi, S.H.R.**, Sadeghian, K., Beigi, H., Khodamoradi, H. and Chamani, R., 2023. Perspective health zoning of Jazmurian watershed with reliability-resilience-vulnerability approach. *In: Proceedings of 6th National Conference on Soil Conservation and Watershed Management*, Tehran, Iran, July 26 and 27, 2023: 623-633.
- 372) Zabihi Silabi, M., **Sadeghi, S.H.R.** and Vafakhah, M., 2023. Introduction and application of the concept of reversibility of soil erosion in the prioritization of sub-watersheds in the Shazand watershed. *In: Proceedings of 6th National Conference on Soil Conservation and Watershed Management*, Tehran, Iran, July 26 and 27, 2023: 579-5787.
- 373) Kalehhouei, M., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2024. The Effect of wind on runoff generation and soil loss due to interrill erosion, *In Abstract Proceedings: 18th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources)*, IRAN, Kashan, 6 and 7, March 2024:3.
- 374) Zabihi Silabi, M., **Sadeghi, S.H.R.** and Vafakhah, M., 2024. Introduction and application of resilience capability index in the Shazand Watershed, Iran. *In Abstract Proceedings: 18th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources)*, IRAN, Kashan, 6 and 7, March 2024:14.
- 375) Vaezi, A.R., Rostami, K. and **Sadeghi, S.H.R.**, 2024. Investigating the quality of sediment particles behind the check dams in the forest area of Chaharzabar, Kermanshah. *In Abstract Proceedings: 18th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources)*, IRAN, Kashan, 6 and 7, March 2024:57.
- 376) **Sadeghi, S.H.R.**, Chamani, R., Tavosi, M., Zabihi Silabi, M., Katebikord, A. and Sadeghi, P.S., 2024. Assessment of health and ecological security of Iran's provinces. *In Abstract Proceedings: 18th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources)*, IRAN, Kashan, 6 and 7, March 2024:78.
- 377) Beigi, H. and **Sadeghi, S.H.R.**, 2024. Evaluation of Salahuddin Kola Watershed management based on the concept of watershed management ladder. *In Abstract Proceedings: 18th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources)*, IRAN, Kashan, 6 and 7, March 2024:80.
- 378) Pourfallah Asadabadi, S., **Sadeghi, S.H.R.**, Vafakhah, M. and Delavar, M., 2024. Improvability of the health of the Pishkooch Watershed in Yazd Province through managing anthropogenic factor. *In Abstract Proceedings: 18th National Conference on Watershed Management Sciences and*



- Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources), IRAN, Kashan, 6 and 7, March 2024:83.
- 379) Bahlakeh, M. and **Sadeghi, S.H.R.**, 2024. Evaluating the hydrological viability index for using in water resources management of the Shazand Watershed in Markazi Province, Iran. *In Abstract Proceedings: 18th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources)*, IRAN, Kashan, 6 and 7, March 2024:160.
- 380) Gharemahmudli, S. and **Sadeghi, S.H.R.**, 2024. Improvability of the mountainous surface soil quality due to inoculating soil microorganisms. *In Abstract Proceedings: 18th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources)*, IRAN, Kashan, 6 and 7, March 2024:185.
- 381) Zare, S. and **Sadeghi, S.H.R.**, Khosrvani, A., 2024. Feasibility of soil and water conservation in marl areas using paper industry sludge. *In Abstract Proceedings: 18th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources)*, IRAN, Kashan, 6 and 7, March 2024:187.
- 382) Naderi Marangalo, N., **Sadeghi, S.H.R.** and Erfanzadeh, R., 2024. The effectiveness of soil loss from Trifolium pratense vegetation in the germination stage. *In Abstract Proceedings: 18th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources)*, IRAN, Kashan, 6 and 7, March 2024:202.
- 383) Havasi, M., **Sadeghi, S.H.R.** and Khaledi Darvishan, A.V., 2024. Runoff generation controllability in small plots from initial establishment stage of *Agropyron deserterum*. *In Abstract Proceedings: 18th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources)*, IRAN, Kashan, 6 and 7, March 2024:203.
- 384) Payfeshoordeh, A., Khaledi Darvishan, A.V. and **Sadeghi, S.H.R.** 2024. The use of Digimizer Software in checking the coverage percentage of protective treatments on the soil surface. *In: Proceedings of 5th National Conference on Development and Promotion of Agricultural Engineering and Soil Sciences in Society*, Tehran, Iran, April 8, 2024:6p.
- 385) Rostami, K., Vaezi, A.R. and **Sadeghi, S.H.R.** 2024. The effect of gabion check dams in different land use on deposited sediments in Razin Watershed, Kermanshah, Iran, In: *Proceedings of the 18th Iranian Soil Science Congress (Regenerative Management and Soil Challenges: Salinity, Pollution and Dust)* 30 January to 1 February, 2024.
- 386) La Licata, M., Bosino, A., **Sadeghi, S.H.R.** and Maerker, M. 2024. Assessing hotspots of sediment sources and related sediment dynamics through the integration of geomorphological data, sediment connectivity and sediment transport modelling - The HOTSSED model, *In EGU General Assembly Conference Abstracts*, updated on 07 May 2024, EGU24-4101, [Doi.org/10.5194/egusphere-egu24-4101](https://doi.org/10.5194/egusphere-egu24-4101).
- 387) Gharemahmudli, S., **Sadeghi, S.H.R.** and Zarei Darki, B., 2024. Effects of soil and water conservation-applied cyanobacteria and algae cultured in different media on chlorophylls, In: *Abstract VII All-Russian Scientific Conference with international participation Algae: Issues on Taxonomy and Ecology, Monitoring and Biotechnology Approaches*, Vladivostok, Russia, September 16-20, 2024: 125.
- 388) **Sadeghi, S.H.R.**, Younesi, H., Gharemahmudli, S., Mirzahosseini, M., Zare, S., Sadeghi, P.S., Homaei, M., Parvizi, Y., Nan, Sh., Yao, L. and Zhang, F. 2024. Feasibility of using morphogenetic porous biochar in improving the performance of rainwater catchment systems. *In: Proceedings of 13th National Conference Rainwater Catchment Systems*, Gorgan, Iran, November 20-21, 2024: 1-6.
- 389) **Sadeghi, S.H.R.**, Zabihi Seilabi, M. and Gharemahmudli, S., 2024. Sustainable watershed management, *In: 3th International Scientific Conference Challenges of Modern Economy and Society Through the Prism of Green Economy and Sustainable Development – CESGED2024*, NoVI SAD, Montenegro, 25-28 April 2024: 49-61.
- 390) **Sadeghi, S.H.R.**, Chamani, R., Tavosi, M. and Zabihi Silabi, M., 2025. Assessing the ecological health and security of Iran's Coastal Watersheds. *In Abstract Proceedings: 19th National Conference*



- on Watershed Management Sciences and Engineering of Iran (Watershed Management in Coastal Watershed), University of Hormozgan, IRAN, 12 and 13, February 2025:49.
- 391) Bahlakeh, M. and **Sadeghi, S.H.R.**, 2025. Effects of human interference on the viability index of the Shazand Industrial Watershed, Markazi Province, Iran. *In Abstract Proceedings: 19th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management in Coastal Watershed)*, University of Hormozgan, IRAN, 12 and 13, February 2025:41.
- 392) **Sadeghi, S.H.R.**, Gharehmahmudli, S., Zare, S., Mirzahosseini, M., Sadeghi, P.S., Younesi, H., Homae, M., Parvizi, Y., Nan, Sh., Yao, L. and Zhang, F., 2025. Capability of soil and water conservation in the Coastal Watersheds of Iran using porous biochar produced from agricultural waste. *In Abstract Proceedings: 19th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management in Coastal Watershed)*, University of Hormozgan, Iran, 12 and 13, February 2025:13.
- 393) Beigi, H. and **Sadeghi, S.H.R.**, 2025. Conceptualization of Coastal Watersheds stability. *In Abstract Proceedings: 19th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management in Coastal Watershed)*, University of Hormozgan, Iran, 12 and 13, February 2025:67.
- 394) Yaghooti, R., Chamani, R. and **Sadeghi, S.H.R.**, 2025. Revisiting problems and challenges of Coastal Watersheds in Iran. *In Abstract Proceedings: 19th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management in Coastal Watershed)*, University of Hormozgan, Iran, 12 and 13, February 2025:60.
- 395) Karimi, S., Moosavi, V. and **Sadeghi, S.H.R.**, 2025. Concepts and applications of watershed hydrological memory. *In Abstract Proceedings: 19th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management in Coastal Watershed)*, University of Hormozgan, Iran, 12 and 13, February 2025:56.
- 396) **Sadeghi, S.H.R.**, Chamani, R., Mousavi, V., Tavosi, M., Zabihi Silabi, M., Shafiei Sabet, M., Mohammadi, Sh., Haji-Ali-Askari, F., Sadeghi, P.S. and Behnia, N., 2025. Assessing the relationship between the spatial distribution of watershed health and alzheimer's disease at the provincial scale. *In Abstract Proceedings: 1st National Conference of Soil Health, Human Health and Food Security, Faculty of Agricultural Sciences, Shahed University of Tehran, Iran, 19, February 2025:442-450.*
- 397) **Sadeghi, S.H.R.**, Nasiri Khiavi, A., Chamani, R., Behnia, N., Moosavi, V., Nouri, H., A., Shoushtari, M.H., Sadeghi, P.S., Khaledi Darvishan, A.V., Vafakhah, M. and Moradi Rekabdarkolaei, H.R., 2025. The variability of the impact of pressure, state, and response indices on the future health of the country's watersheds. *In Abstract Proceedings: 1st National Congress of Artificial Intelligence in Agriculture, Natural Resources, and Environment College of Agriculture, Shiraz University, Iran, 3-4 September 2025:10.*
- 398) **Sadeghi, S.H.R.**, Chamani, R., Moosavi, V., Behnia, N., Tavosi, M., Zabihi Silabi, M., Nasiri Khiavi, A., Noori, H., Shoushtari, M.H. and Sadeghi, P.S., 2025. Smart Watershed Management of Iran with a Focus on the Health of 2nd and 3rd-Order Watersheds. *In Abstract Proceedings: 20th National Conference on Watershed Management Sciences and Engineering of Iran (Smart Watershed Management)*, University of Razi, Kermanshah, Iran, 19 and 20, November 2025:10.
- 399) Yaghooti, R., **Sadeghi, S.H.R.** and Chamani, R., 2025. Achievement of Sustainable Development Goals in Watersheds. *In Abstract Proceedings: 20th National Conference on Watershed Management Sciences and Engineering of Iran (Smart Watershed Management)*, University of Razi, Kermanshah, Iran, 19 and 20, November 2025:59.
- 400) **Sadeghi, S.H.R.**, Gharehmahmudli, S., Zare, S., Sadeghi, P.S., Mirzahosseini, M., Younesi, H., Homae, M., Parvizi, Y., Nan, Sh., Yao, L., Zhang, F. and Zabihi Silabi, M., 2025. Application of the modified Condorcet Intelligent Algorithm in selecting optimal Morpho-Genetic Porous Carbon for soil and water conservation. *In Abstract Proceedings: 20th National Conference on Watershed Management Sciences and Engineering of Iran (Smart Watershed Management)*, University of Razi, Kermanshah, Iran, 19 and 20, November 2025:192.
- 401) Bahlakeh, M. and **Sadeghi, S.H.R.**, 2025. Watershed Viability: From Conceptual Modeling to Intelligent Prioritization. *In Abstract Proceedings: 20th National Conference on Watershed Management Sciences and Engineering of Iran (Smart Watershed Management)*, University of Razi, Kermanshah, Iran, 19 and 20, November 2025:60.



- 402) Sadeghi, V.S., **Sadeghi, S.H.R.**, Sadeghi, S.V., Sadeghi, P.S., Sadeghi, S.P. and Sadeghi, H.S., 2025. Feasibility study of using infrared spectrum in smart estimation of suspended sediment concentration. *In Abstract Proceedings: 20th National Conference on Watershed Management Sciences and Engineering of Iran (Smart Watershed Management)*, University of Razi, Kermanshah, Iran, 19 and 20, November 2025:174.
- 403) Azizi, E., Chamani, R. and **Sadeghi, S.H.R.**, 2025. Replaceability of Humans by Artificial Intelligence in Watershed Management. *In Abstract Proceedings: 20th National Conference on Watershed Management Sciences and Engineering of Iran (Smart Watershed Management)*, University of Razi, Kermanshah, Iran, 19 and 20, November 2025:55.
- 404) Tavosi, M., Vafakhah, M. and **Sadeghi, S.H.R.**, 2025. Revisiting the Water-Society Nexus in the Watershed: Architecting a Conceptual Framework Based on the PSR Model. *In Abstract Proceedings: 20th National Conference on Watershed Management Sciences and Engineering of Iran (Smart Watershed Management)*, University of Razi, Kermanshah, Iran, 19 and 20, November 2025:25.
- 405) Gharehmahmudli, S. and **Sadeghi, S.H.R.**, 2025. Comparison of cyanobacterization in reducing the threshold of runoff in two freeze-thaw and saline soils. *In Abstract Proceedings: 1st Iran Ecohydrology Engineering Conference*, University of Tehran, Tehran, Iran, 17, December 2025.
- 406) **Sadeghi, S.H.R.**, Gharehmahmudli, S., Sadeghi, P.S., Mirzahosseini, M., Zare, S., Younesi, H., Homaee, M., Parvizi, Y., Nan, Sh., Yao, L., and Zhang, F., 2026. Soil potential in water conservation using wastes-produced porous biochar. *In Abstract Proceedings: 14th National Conference on Rainwater Catchment Systems*, Faculty of Natural Resources, Tarbiat Modares University, Noor, Iran, 15 and 16, February 2026.

IX) RESEARCH PROJECT LEADER/COLEADER:

1. **Sadeghi, S.H.R.**, 1983. Rangeland and Watershed Management Project, Bachelor Thesis, Semnan, Iran.
2. **Sadeghi, S.H.R.**, 1994 Soil Erosion and Sediment Study, Valasht, Iran.
3. **Sadeghi, S.H.R.**, 1995. Hydrologic Study of Hasan Gavdari, Ilam, Iran.
4. **Sadeghi, S.H.R.**, National Project of Soil Erosion Map of Iran, Tehran, Iran, 1997.
5. **Sadeghi, S.H.R.**, 2003. Design of mechanical treatments for five case studies in Markazi Province, Iran.
6. **Sadeghi, S.H.R.**, 2003. Soil Erosion studies for Four cases in Markazi Province, Iran.
7. **Sadeghi, S.H.R.**, 2004. Study on Spatial Variation of Erosivity Index in Mazandaran Province, Financed by Mazandaran Management and Planning Organization.
8. **Sadeghi, S.H.R.**, 2004. Study on Morphometrical Variations of Bed Load Sediments along Vaz River in Mazandaran Province, Tarbiat Modares University, 103p.
9. **Sadeghi, S.H.R.** (Co-Researcher), 2004. Flood forecasting in Southern Coast of Caspian Sea using Synoptic locations, Tarbiat Modares University, 132p.
10. **Sadeghi, S.H.R.** (Co-Researcher), 2009. Studies on Runoff and Sediment Yield in Haraz Watershed Project, 200p.
11. **Sadeghi, S.H.R.** (Co-Researcher), 2010. Studies on Water Quality Sampling and Limnology of Garsha Power House Project.
12. **Sadeghi, S.H.R.** (Co-Researcher), 2010. Limnologic Studies of Seymareh River Project.
13. **Sadeghi, S.H.R.** (Co-Researcher), 2010. Studies on Water Quality Sampling and Limnology of Dez Chain Power Houses Project.
14. **Sadeghi, S.H.R.**, 2014. Study on Effects of Sand and Gravel Minings on Morphometric Characteristics of Suspended and Bed Loads, Iran National Science Foundation (INSF).
15. **Sadeghi, S.H.R.**, 2015. Temporal and Spatial Variations of Relationship between Suspended Sediment Concentration and Some of Contaminants of Zayandeh-Rud River, Iran Water Resources Management CO.,.
16. **Sadeghi, S.H.R.** et al., 2019. Soil and Water Loss Control through Inoculation of Some Soil Microorganisms, Iran National Science Foundation (INSF).
17. **Sadeghi, S.H.R.** et al., 2019. Report of Study and Synthesis of Strategic Plan for Integrated Management of Pilot Watersheds of Asiabrood and Bararood, Chalus City, Ministry of Jihad-e-Agriculture(FRWO), Department of Natural Resources and Watershed Management of Mazandaran Province–Nowshahr, 167p.



18. **Sadeghi, S.H.R.** et al., 2020. Essentials, approaches and methods for assessment of watershed health and sustainability, Integrated Watershed Management National Master Plan, 144p.
19. **Sadeghi, S.H.R.** et al., 2020. Selection of Representative Watersheds in Homogeneous Regions of the Country, Integrated Watershed Management National Master Plan, 163p.
20. **Sadeghi, S.H.R.** et al., 2021. Controllability of Soil Erosion Induced by Freezing-Thawing Process, Iran National Science Foundation (INSF), 91p.
21. **Sadeghi, S.H.R.** et al., 2022. Soil and Water Conservation using Porous Biochar Amendment Produced from Vinasse Wastes of Sugarcane Industries, Center for International Scientific Studies and Collaboration, Jundishapur Program, 79p.
22. **Sadeghi, S.H.R.** et al., 2021. Health Atlas of Pishkooch Watershed, Taft City, Yazd Province, Iran. Department of Natural Resources and Watershed Management of Yazd Province, 156p.
23. **Sadeghi, S.H.R.** et al., 2021. Conceptual Modeling of Soil-Water-Energy-Food Nexus in Adaptive Watershed Management, Iran National Science Foundation (INSF), 95p.
24. **Sadeghi, S.H.R.** (Co-Researcher), 2021. Assessment of Five Year Rangeland Preservation Affecting Soil Sustainability Index and Soil Quality in the Dalahoo, Kermansha Province, Iran, Soil Conservation and Watershed Management Research Institute, Iran, 74p.
25. **Sadeghi, S.H.R.** et al., 2022. Automatic Device for River Suspended Sediment Measurement based on Optics and Optical Spectrum Technology, Iran Water Resources Management Company, Iran Ministry of Energy, 72p.
26. **Sadeghi, S.H.R.** et al., 2025. Controllability of Soil and Water Loss in Saline Soils using Microorganisms, Iran National Science Foundation (INSF), 101p.

X) BOOKS (TRANSLATED, WRITTEN AND EDITED):

- 1) **Sadeghi, S.H.R., 1995.** Land Degradation, New South Wales, Australia, Publication of Jihad-e-Sazandegi, Iran.
- 2) **Sadeghi, S.H.R., 1996.** Watershed Management Field Manual, Road Design and Construction, Conservation Guide 13/5, FAO, Publication of Jihad-e-Sazandegi, Iran.
- 3) Taleb Bidokhti, N., Shahoe, S., Behnia, A., Behboodi, F., **Sadeghi, S.H.R.**, Malek, A. and Sharifi, F., 2003. A Glossary on Soil Erosion and Sediment, National Committee of Soil Erosion and Sediment, Associated with National Committee of Hydrology (UNESCO), 386p.
- 4) **Sadeghi, S.H.R.** and Yasrebi, B., 2008. Soil and Water Conservation in Forest Watersheds, UNESCO-Iran, Iranian Watershed Management Society, Jihad-e-Agriculture Ministry, Iranian National Commission on Soil Erosion and Sediment Yield, In corporation with Taleb Bidokhti, N., Shahoe, S., Soufi, M. and Behboodi, F., 107p.
- 5) Arabkhedri, M. and Kamali, K., 2008. Traditional Techniques of Soil and Water Conservation in Iran, UNESCO-Iran, Iranian Watershed Management Society, Jihad-e-Agriculture Ministry, Iranian National Commission on Soil Erosion and Sediment Yield, In corporation with **Sadeghi, S.H.R.**, Soufi, M., Behnia, A.K., Taleb Bidokhti, N. and Behboodi, F., 109p.
- 6) **Sadeghi, S.H.R., 2009.** Manual on Design, Implementation and Maintenance of Flood and sediment Control Structures (Check Dams), Presidency Strategies Planning Deputy and Forest, Rangeland and Watershed Management Organization, 76p.
- 7) **Sadeghi, S.H.R.** and Khaledi Darvishan, 2010. Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment, Apr. 28–29, 2010: 262p.
- 8) **Sadeghi, S.H.R., 2010.** Study and Measurement of Water Erosion, Tarbiat Modares Press, 200p.
- 9) **Sadeghi, S.H.R.** and Najafi, S., 2014. Sources Ascription for Fluvial Sediments in Watersheds (Concepts, Methods and New Technologies), Tarbiat Modares University Press, 256p.
- 10) **Sadeghi, S.H.R.** and Hazbavi, Z., 2015. Proceedings of Thesis and Dissertations, National Festival on Water, Soil and Environments Technologies, Iran, 160p.
- 11) **Sadeghi, S.H.R.,** Sadoddin, A., Hazbavi, Z., Ghonchehpour, D., Mahmoodi, Z. and Kazemi Kia, S., 2016. Natural Resources, Water and Environment Organizations in Different Countries in the World, Watershed Management Society of Iran and National Mega-Project on Integrated Watershed Management of Iran, 51p.
- 12) **Sadeghi, S.H.R.,** Hazbavi, Z., Gholami, L. and Khaledi Darvishan, A.V., 2017. Soil and Water Conservation using Amendments, Tarbiat Modares University Press, 1st edition, 467p.



- 13) Kiani-Harchegani M., **Sadeghi S.H.R.**, Ghahramani A., 2019. Intra-storm Variability of Coefficient of Variation of Runoff and Soil Loss in Consecutive Storms at Experimental Plot Scale. *In: Chalov S., Golosov V., Li R., Tsyplenkov A. (eds) Climate Change Impacts on Hydrological Processes and Sediment Dynamics: Measurement, Modelling and Management. Springer Proceedings in Earth and Environmental Sciences. Springer: 98-103.*
- 14) **Sadeghi, S.H.R.**, Sharifi Moghadam, E., Mohseni Saravi, M., 2019, New Approaches in Applied Management of Watershed, Gorgan University of Agriculture and Natural Resources Press. 267 pp.
- 15) **Sadeghi, S.H.R.**, 2019. Watershed Management in the 21st Century. *In Watershed Hydrology, Management and Modeling (pp. 152-161). CRC Press.*
- 16) **Sadeghi, S.H.R.**, Hazbavi, Z., Gholami, L. and Khaledi Darvishan, A.V., 2017. Soil and Water Conservation using Amendments, Tarbiat Modares University Press, 2nd edition, 499p.
- 17) **Sadeghi, S.H.R.**, Sadoddin, A., Asadi Nalivan, O., Hazbavi, Z., Zare Garizi. A. and Moaeri, M.H., 2020. Watershed Health and Sustainability (Principles, Approaches and Assessment Methods), Tarbiat Modares University Press, 233p.
- 18) Bashiri, M., **Sadeghi, S.H.R.** and Rangavar, A.S., 2021. Runoff and Sediment Analysis based on Data From Sub-Watershed and Erosion Plots with Different Lengths, *In: Mahmood Arabkhedri and Hamzeh Noor (eds) Experimental Erosion and Sediment Research (Sanganeh Soil Conservation Research Site); Research, Education and Extension Opportunities, Soil Conservation and Watershed Management Research Institute; Chapter 6: 127-149.*
- 19) **Sadeghi, S.H.R.** and Sharifi Moghadam, E., 2021. Integrated Watershed Management Vis-a-Vis Water–Energy–Food Nexus. *In: The Water–Energy–Food Nexus, S.S. Muthu (Editor), Springer, Singapore, Chapter 3:69-96.*
- 20) **Sadeghi, S.H.R.** and Hazbavi, Z., 2022. Land Degradation in Iran, *In: Li, R., Napier T.L., El-Swaify, A., Sabir, M. and Rienzi, E. (Editors-in-Chief), Global Degradation of Soil and Water Resources (Regional Assessment and Strategies); Chapter 20:342-380.*
- 21) **Sadeghi, S.H.R.** and Parvizi, Y., 2022. Study and Measurement of Water Erosion, Tarbiat Modares University Press, 420p.

XI) RESEARCH STUDENTS SUPERVISED:

a) Master Theses

- 1) Toufighi, B., 2002. Study on Temporal Variation of Sediment Yield in Zarrinderakht Watershed in Chaharmahal and Bakhtiari, Iran, Master Thesis, Tarbiat Modares University.
- 2) Nikpour, A., 2002. Development of Sediment Yield Dynamic Model in Kasilian Watershed, Iran. Master Thesis, Tarbiat Modares University.
- 3) Jalalirad, R., 2003. Flood Zoning in a part of Tehran Urban Watershed using Remote Sensing. Iran, Master Thesis, Tarbiat Modares University.
- 4) Mozayyan, M., 2003. Study on Relationship between different components of Rainfall and Runoff in Kasilian River.
- 5) Frootan, E., 2003. Evaluation of Implemented Watershed Management Projects in Part of Kan Watershed in Tehran Province.
- 6) Najafi, D.A., 2003. Prioritization of Esfahan and Sirjan Subwatersheds in Generation of Sediment Using Regional Analysis.
- 7) Razaghian, H., 2004, Study on Effects of Spatial and Temporal Distributions of Rainfall on Flood Characteristics in a part of Gorganrud Watershed.
- 8) Jalili, Kh., 2004, Land Use Optimization of Brimvand Watershed for Soil Erosion Minimization using Linear Programming.
- 9) Hajigholizadeh, M., 2004, Study on Effects of Human Interferes ob Flood Behavior in a Part of Tehran Kan Watershed.
- 10) Khaledi Darvishan, A.V., 2005. Relationship between Watershed Hydrologic Characteristics with Bed Load Morphometry in Vaz River, Iran.
- 11) Shojaee, Gh.R. 2005. Relationship between Land Use Changes and Soil Erosion and Sediment Yield in part of ZayandehRud Watershed.
- 12) Aghabeigi Amin, S., 2005. Temporal and Spatial Variation Pattern of Suspended Sediment in Important Sub-watersheds of Haraz River, Iran



- 13) Yasrebi, B., 2005. Prioritization of Main Sub-watersheds of Haraz River Based on Runoff Generation.
- 14) Azari, M., 2006. Simulation of Hydrological and Hydraulic Behavior of Jaghargh Watershed for Flood Control
- 15) Mahmoodi, M., 2006. Study on Temporal and Spatial Variation of Roughness Coefficient in Part of Kardeh River
- 16) Noormohammadi, F., 2006. Allometry and Sediment Yield of Gullies in Dareshahr Region, Ilam Province, Iran.
- 17) Gholami, L., 2007. Development of Storm-Wise Sediment Yield Prediction Model in a Part of Gheshlagh Watershed, Kurdistan Province, Iran
- 18) Afzali, A., 2007. Regional of Modeling Synthetic Unit Hydrograph Components with Physiographic Parameters of Watershed.
- 19) Bashari Seghaleh, M., 2007. Role of Experimental Plot Length in Accuracy of Soil Erosion Estimation
- 20) Saeidi, P., 2008. Investigating Relationship between Sedimentgraph and Hydrograph Components in Educational Forest Watershed of Tarbiat Modares, Iran.
- 21) Kiani Harchegani, M., 2008. Feasibility of Suspended Sediment Estimation using Heavy Metals in University Tarbiat Modares, Educational Forest Watershed, Iran.
- 22) Salavati, B., 2008. Flood Generation Modeling in Kurdistan Province Watersheds.
- 23) Yaghmaei, H., 2008. Relationship between Suspended Sediment Concentration using Some of Physicochemical Characteristics of Water.
- 24) Moatamednia, M., 2009. Relationship between Unit Hydrograph and Rainfall Components in Kasilian Watershed.
- 25) Tavassoli, A., 2009. Dynamics of Runoff Coefficient in Storm Basis for Neishabour Bar Watershed, Iran
- 26) Noor, H., 2009. Instantaneous Unit Sediment Graph Modeling in Kojur Watershed
- 27) Fazli, S., 2009. Rainfall, Runoff and Suspended Sediment Modeling in Representative Khamsan Watershed
- 28) Mohammadpour, K., 2009. Comparison of Infiltration, Runoff and Sediment Yield, Microrelif and Vegetation Cover in Grazed and Excluse Nowshahr Summer Rangeland
- 29) Raeisi, M.B., 2009. Accuracy of Time-Area Method in Sedimentgraph Development in Kojor Watershed
- 30) Zarif, M.S., 2009. Effects of Slope Steepness and Aspect on Surface Runoff Formation and Sediment Yield in Kojor Forest Watershed
- 31) Solaimankhani, Z., 2010. Comparison of Temporal Variation of Runoff and Sediment Yielded from Application of Rainfall Simulation between Small Plots Installed in Range and Reclaimed Forest Lands of Kodir Area.
- 32) Khazayee, M., 2010. Influence of Forest Disturbance on Runoff Generation, Sediment Yield and Nutrient Losses.
- 33) Gholami Gohareh, R., 2010. Influence of Surface Fire in Range and Reclaimed Forest Lands of Kodir Area on Temporal Variation of Infiltration, Runoff and Sediment.
- 34) Rostami, M., 2010. Temporal Variability of Effective Discharge for Suspended Sediment Transport in Kojur Forest Watershed.
- 35) Najafi, S., 2011. Determination of Erosion Types Contribution in Sediment Yield using Fingerprinting Method.
- 36) Abdollahi, Z., 2011. Designing Nozzles and Testing Rainfall Characteristic in Large Soil Erosion and Sediment Simulator.
- 37) Kheirfam, H., 2012. Determination and Evaluation of the Temporal Variation of Bed Load to Suspended Load Ratio in Kojour River.
- 38) Ghaffari, Gh. A., 2012. Moisture Depletion Pattern in Gully Erosion.
- 39) Hazbavi, Z., 2013. Soil Erosion Control by Application of Polyacrylamide to Minimize its Residues in Runoff and Sediment.
- 40) Zakeri, M.A., 2013. Temporal Variability of Wash and Bed Material Loads in Kojour River.
- 41) Abdi, M., 2013. Variation of Hydroclimatic Behavior of Urmia City Watershed.



- 42) Gharemahmudli, S., 2013. Temporal Variability of Amount and Morphometric Characteristics of Suspended and Bed Loads Resulted from Different Sand and Gravel Minings.
- 43) Zabihi, M., 2014. Rainfall Erosivity Index Zoning for Different Return Periods in Iran.
- 44) Sharifi Moghadam, E., 2014. Analyzing Effect of Vinasse Application to Soil Erosion Control during Consequent Rainfalls.
- 45) Davoodi Moghadam, D., 2014. Effect of Different Slope Aspects on Surface Runoff Generation, Soil and Nutrient Loss in Kakhk Treated and Representative Watersheds.
- 46) Zeinab Karimi, 2015. Effectability of Runoff Generation and Soil Loss in Small Plots from Powder and Solute Application of Different Levels of Polyacrylamide.
- 47) Mohammad Hossein Ghavimi Panah, 2017. Controllability of Surface Runoff Generation and Soil Loss from Biochar Application Produced from Industrial Sewage Sludge
- 48) Seyedeh Saba Mousavifar, 2017. Controllability of Soil Loss and Surface Runoff from Compound Application of Vermicompost and Silica Nanoparticles.
- 49) Fatemeh Pourhossein, 2017. Soil Surface Organic Carbon Loss from Rangeland Ecosystems (Case Study: Gonbad Watershed in Hamedan Province, Iran), In collaboration with Dr. B. Attaeian, Faculty of Natural Resources and Environmental Science, Malayer University.
- 50) Milad Hatefi, 2018. Changeability of Runoff and Soil Loss from Effect of Rangeland Vegetation Cover in Small Experimental Plots Subjected to Freezing-Thawing Cycle.
- 51) Mahya Sadeghi Satri, 2019. Controlability of Surface Runoff and Soil Loss from Soil Micro-Organisms Inoculation under Natural Storm Events during Erosive Period.
- 52) Somayeh Zare, 2019. Effectability of Runoff Generation and Soil Loss in Small Experimental Plots Treated by Residual Fines and Nanofibers Amendments Produced from Old Corrugated Containers.
- 53) Mostafa Zabihi Seilabi, 2020. Variability of Runoff and Sediment Yield from Suitable Allocation of Various Land Uses in Prioritized Sub-watersheds of the Glazchai Watershed, Oshnavieh, Iran.
- 54) Masoumeh Ashgevar Haydari, 2021. Effectability of Runoff Generation and Soil Loss during Successive Storms from Experimental Plots Induced by Rill Erosion and Inoculated by Soil Microorganisms.
- 55) Mahmood Sharifi Moghani, 2021. Feasibility Study of Runoff and Soil Loss Control in Marl Soils using Sulfur Different Residues.
- 56) Elnaz Farzadfar, 2021. Inhibitability of Soil Loss during Splash and Interrill Erosions due to Application of Molecular Sieve Produced through Gas Refining Process.
- 57) Nastaran Naderi Marangalo, 2024. Effectability of Runoff and Soil Loss from *Trifolium pratense* Phenology in Small Laboratory Plots
- 58) Masoumeh Havasi, 2024. Controllability of Runoff and Soil Loss in Small Laboratory Plots from *Agropyron desertorum* Phenology.

b) Ph.D. Dissertations

- 1) **Vaezi, A.R., 2007.** Modeling of Spatial and Temporal Variations of Erodibility on Agricultural Soils Using Geostatistics. (Coadvised by Dr. H.A. Bahrami)
- 2) **Khaledi Darvishan, A., 2013.** Simulation of Runoff Generation and Soil Erosion Processes in Different Antecedent Soil Moisture Contents.
- 3) **Ebrahimi Mohammadi, Sh., 2013.** Spatial and Inter/Intra Storm Variations of Hydrograph, Suspended Sedimentgraph and Particulate Pollutograph in Main Flows to Zarivar Lake.
- 4) **Behzadfar, M., 2014.** Effectability of Runoff and Sediment Yield from Soils Induced by Freezing and Melting Cycle from Amount and Application Time of Different Soil Amendments.
- 5) **Gholami, L., 2014.** Process Simulation of Soil Erosion Control by Applying Amendments in Different Rainfall Intensities.
- 6) **Mostafazadeh, R., 2014.** Effects of Different Management Scenarios of Landscape Metrics on Storm Runoff and Sediment Variations.
- 7) **Mohammadi, S., 2016.** Analysis of Infiltration, Runoff Generation and Sediment Yield Processes in Petroleum Contaminated Soils. (Coadvised by Professor M. Homaeae)
- 8) **Saeidi, P., 2016.** Development and Application of Allometric Models of Hydrograph and Sediment Graph in Simulation of Temporal Variation of Storm Suspended Sediment.
- 9) **Kiani Harchegani, M., 2016.** Comparative Analysis of Effective Sediment Size Distribution during Erosion Process Evolution.



- 10) **Kheirfam, H., 2016.** Feasibility of Controlling Surface Runoff Generation and Soil Loss through Inoculation of Some Soil Microorganisms.
- 11) **Davudi Rad, A.A., 2017.** Adaptive Management based on Zero Net Land Degradation Approach in Shazand Watershed - Markazi Province.
- 12) **Najafi, S., 2017.** Structural and Functional Connectivity of Sediment Yield Process in Different Scenarios of Landscape Management in Taham-Chai Watershed, Zanjan Province, Iran
- 13) **Hazbavi, Z., 2018.** Customization of Watershed Health Dynamic Models.
- 14) **Yaghmaei, H., 2018.** Modeling Human Induced Land Degradation in Qomrood Watershed, Iran
- 15) **Adhami, M., 2018.** Watershed Hydrologic Response to Game Theory based Best CoManagement Practices
- 16) **Kazemi Kia, S., 2019.** Selection of Representative Watershed in Homogeneous Regions of Iran Based on Watershed Index and Multi Fractal Analysis
- 17) **Moradi Dasht Pagerdi, M., 2019.** Effectability of Simulation Precision of Watershed Hydrograph and Sedimentgraph from Changes in Raster and Vector Scales
- 18) **Mirchooli, F. 2020.** Watershed Sustainability Modeling
- 19) **Sharifi Moghaddam, E., 2020.** Conceptual Modeling of Soil-Water-Energy-Food Nexus in Adaptive Watershed Management
- 20) **Gharemahmudli, S., 2021.** Controllability of Surface Runoff and Soil Loss from Small Experimental Plots through Bacteria and Cyanobacteria Inoculation under Freezing-Thawing Processes (Coadvised by Prof. A. Najafinejad, Gorgan University of Agricultural Science and Natural Resources)
- 21) **Jafarpour, A., 2021.** Studying Behavior of Rill Erosion Process due to Inoculation of Soil Microorganism at Experimental Plots.
- 22) **Farzi, P., 2021.** Conceptual Modeling of Watershed Resilience Index.
- 23) **Ebrahimi Gatekesh, Z., 2022.** Application of Adaptive Management for the Watersheds.
- 24) **Katebi Kord, A., 2022.** Simulating Contribution of Isochrone Segments of Watershed in Sedimentgraph.
- 25) **Kalehhoee, M., 2023.** Variations of Components of Splash and Interrill Erosions under Concurrent Simulation of Rainfall and Wind.
- 26) **Mumzai, A., 2023.** Studying Behavior of Runoff Generation and Soil Loss in a Gasoil Contaminated Soil due to Inoculation of Soil Microorganism under Rainfall Simulation.
- 27) **Riyahi, M.R., 2024.** Conceptual Modeling of Watershed Governance and Sustainable Development Relationship.
- 28) **Poorfallah, S., 2025.** Effect of Application of the Water-Energy-Food Nexus on the Watershed Health.
- 29) **Zabihi Silabi, M., 2025.** Conceptual Modeling of Watershed Elasticity.
- 30) **Nasiri, Z., 2025.** Conceptual Modeling and Assessing Coupling Coordination Degree between Watershed Development and Ecosystem Services.
- 31) **Zaki, S.A., 2025.** Similarity Analysis of Soil Erosion and Suspended Sediment Yield Trends in Representative Watersheds of the Iranian Territory of the Caspian Sea Basin.
- 32) **Bahlakeh, M., 2025.** Conceptual Modeling of Watershed Viability.

c) Postdoctoral Fellow

- 1) Kiani Harchegani, M., 2019. Conceptualization and Application of Land Degradation Neutrality (LDN) in Watershed Management.
- 2) Gharemahmudli, S., 2025. Controllability of Soil and Water Loss in Saline Soils using Microorganisms.

XII RESEARCH STUDENTS CO SUPERVISED:

a) M.Sc. Theses

- 1)Ghanbari, S. 1996. The Role of Vegetation Cover on Soil Conservation, Master Thesis, Tarbiat Modares University.
- 2)Sadatinezhad, S.J. 1997. Statistical Comparison of Different Methods for Data Generation of Precipitation in Isfahan Province, Master Thesis, Tarbiat Modares University.
- 3)Samadnejhad, A.,2002. Study on Main Factors Affecting on Formation of Gully Erosion: A case Study in Fars Province, Iran, Master Thesis, Tarbiat Modares University.



- 4) Saadati, H., Effect of Land Use on Simulating Daily Discharge Flow using SWAT Mathematical Model (Case Study: Kasilian Catchment Area), Master Thesis, Tarbiat Modares University.
- 5) Abdollahi, Kh., 2002. Runoff Modeling using IUGH, Iran, Master Thesis, Tarbiat Modares University.
- 6) Hasanlou, M.R., 2003. Study of Roles of Geomorphological Factors on Water Erosion in a Part of Zanjanroud Watershed.
- 7) Khedri Tazhan, B., 2004, Application of Fuzzy Logic in Prioritization of Watershed Management Measures in Azadbar Karaj Basin, Iran.
- 8) Sohaili, E., 2004, Study on Distribution and Causes of Tunnel Erosion in Southern Fars, Iran
- 9) Behzadfar, M. 2004. Study on Relationship between Precipitation Parameters and Erosivity Factor in Khuzestan Province, Iran.
- 10) Ghaderi, B., 2005. Comparison between Free Grazing and Planted Rangeland in View Point of Runoff and Sediment Generation (Case Study: Spring-Autumn Rangeland of Matash, Talesh).
- 11) Razavi, S.L., 2005. Role of Depth, Duration, Intensity and Temporal Distribution of Storm in Accuracy of Estimated Runoff with SCS Model.
- 12) Fazelpoor Aghdaei, M.R., 2005. Study on Land Use Change on Desertification of Ardakan City Area using Remote Sensing.
- 13) Izanloo, H., 2006. Temporal and Spatial Prioritization of Flood Occurrence in Kooshkabad Watershed in Khorasan Razavi Province using HEC-HMS.
- 14) Solgi, A., 2008. Evaluation of Forest Soil Disturbance Caused by Skidder HSM904
- 15) Talebi, Sh., 2008. Application of Landscape Ecology Concepts in Assessment of Land Use Change Effect on Flood Occurrence in Neka Watershed
- 16) Asadi, H., 2008. Evaluation of Different Methods for Time-Area Curve Development Resulted from Instantaneous Unit Hydrograph in Kassilian Watershed.
- 17) Agh Kakli, B.M., 2009. Effects of Harvesting Slashes on Soil Disturbance in Forest Skidding Trails.
- 18) Bakhshi Tiregani, M., 2010. Erodibility and Sediment Productivity in Rangeland and Agricultural Land uses and Different Seasons using Rainfall Simulator.
- 19) Asadollahi, Z., 2011. Modeling Daily Sediment Variation in Kojur Forest Watershed.
- 20) Ahmadi, E., 2012. Effects of Soil Temperature and Moisture on Sediment Yield in Quaternary Formations of Shahr Kahneh Watershed, Ghochan.
- 21) Fakher Nikcheh, A. 2013. Evaluation and Comparison of Infiltration Models to Simulate Flood Hydrograph.
- 22) Homayoonfar, V., 2014. Comparison of Surface Runoff and Soil Loss from Field Plots with Disturbed and Undisturbed Soil
- 23) Karamizad, F., 2014. Spatial Variation of Runoff Generation using Geostatistics in Sarab Watershed, Ilam Province.
- 24) Zenali, V., 2017. Effect of Changes in Residential Areas on Dynamics of Storm Runoff Coefficient in the Amameh Watershed.
- 25) Khodamoradi, H., 2019. Spatial Changeability of Performance of Watershed Management Measures in Reducing Soil Erosion in Khamsan Representative Watershed using Cs-137 Method.
- 26) Mahmoodi, B., 2019. Analysis of Relationship between Sediment Delivery Ratio and Sediment Connectivity Index in Khamesan Representative Watershed.
- 27) Payfeshorkeh, A., 2024. Effect of Combined Application of Sawdust and Polyvinyl Acetate in Controlling Surface Runoff and Soil Loss in Small Experimental Plots under Rainfall Simulation.

b) Ph.D. Dissertations

- 1) Mohammadi Golrang, B., 2015. Technical and Social Evaluation of Implemented Watershed Management Practices in the Kushk-Abad Watershed of Kardeh Dam Basin, Iran, Supervisor: Professor Sea Food Lai, UPM, Malaysia.
- 2) Abdolahi, Z., 2018. Spatial and Temporal Variation in Quality of the Suspended Sediment in a Reach of Zanjanrud River, Supervisor: Dr. A. Kavian, Sari University of Agricultural Science and Natural Resources, Sari, Iran.
- 3) Rostami Mang Halati, K., 2021. Efficiency of Check Dams in Sediment Control from Different Land-Uses in Some Watersheds of West of Iran, Kermanshah Province, Iran. Supervisor: Professor A. R. Vaezi, Zanjan University, Zanjan, Iran.



- 4) Nasiri Khiavi, A., 2023. Flood Management through Conjunct Use of Hydrological and Strategic Planning Models.
- 5) Ghavimi Panah, M.H., 2023. Evaluating Effect of Soil and Water Conservation Measures on Watershed Health of Kan Watershed, Supervisors: Drs. L. Gholami and Prof. A. Kaviani, Sari University of Agricultural Science and Natural Resources, Sari, Iran.
- 6) Chamani, R., 2023. Effect of Hydrologic Services Changes Resulted from Effective Watershed Management Measures on Watershed Health, Supervisor: Prof. M. Vafakhah, Tariat Modares University, Iran.
- 7) Rajabi, M.R., 2024. Predicting the Effect of Hydro-Climatic and Land Use Dynamic Variables on Watershed Health Change.
- 8) Tavosi, M., 2025. Integrated Conceptualization of Water Security at Watershed Scale, Supervisor: Prof. M. Vafakhah, Tariat Modares University, Iran.

XIII) COURSES TAUGHT:

1) Soil Conservation	B.Sc.(10 Groups)
2) Flood Control	M.Sc.(10 Groups)
3) Small Dams	M.Sc.(14 Groups)
4) Integerated Management of Watersheds	M.Sc. (19 Groups)
5) Rangeland Hydrology	M.Sc.(6 Groups)
6) Advanced Soil Conservation	M.Sc.(6 Groups)
7) Soil Erosion and Sediment Models	M.Sc.(19 Groups)
8) Biologic Management of Soil Erosion	M.Sc.(5 Groups)
9) Advanced Forest Hydrology	Ph.D.(1 Group)
10) Advanced Soil and Water Conservation Engineering	Ph.D.(8 Groups)
11) Management of Watersheds	Ph.D.(6 Groups)
12) Simulation for Watershed Management	Ph.D.(10 Groups)
13) Bio-Engineering Ecology	Ph.D.(5 Groups)
14) Watershed Health and Sustainabiliy Evaluation	Ph.D.(6 Groups)

XIV) NAMES AND ADDRESSES OF SOME REFERENCES:

- 1) **M. Mahdavi**
Professor, Natural Resources Faculty of Tehran University, Karadj, Iran, E-mail: mahdavi@ut.ac.ir
- 2) **D.E. Walling**
Professor, School of Geography, University of Exeter, EXETER, UK, E-mail: D.E.Walling@exeter.ac.uk
- 3) **J.K. Singh**
Professor, Department of Soil and Water Conservation Engineering, College of Technology, G.B. Pant University of Agriculture and Technology, Uttranchal, India, E-mail: jksingh2002@rediffmail.com
- 4) **Takahisha Mizuyama**
Professor, SABO (Soil Erosion Lab), Kyoto University, Japan. E-mail: mizuyama@kais.kyoto-u.ac.jp
- 5) **Vijay P. Singh**
Professor, Department of Biological and Agricultural Engineering and Zachry Department of Civil Engineering, Texas A and M University, College Station, Texas, U.S.A., E-mail: vsingh@tamu.edu
- 6) **Michael Maerker**
Professor, Soil Erosion and Feedback Group, Landscape Functioning, Leibniz Centre for Agricultural Landscape Research (ZALF), Müncheberg, Germany

XV) HOLDING AND PARTICIPATING IN WORKSHOPS

- 1) Workshop Convener of SWAT Model, Lorestan University Iran, 2012.
- 2) Workshop Convener of Permissible Erosion: Concepts, Rates and Estimation Methods, SCWMRI, Iran, Jan. 22, 2013.
- 3) Workshop Convener of Ecohydrology: A Necessary Tool for Proper Managment of Natural Resources, Malayer University Iran, 2015.
- 4) Workshop Convener of Unique Amendments for Soil and Water Conservation, EGU 2017, Vienna, Austria, Apr. 24, 2017.



- 5) Workshop Convenor for Standards and Challenges on Evaluation of Watershed Health and Sustainability in Iran in 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment, Ardabil, Iran, 2018.
- 6) Attending International Workshop on Advanced Training Course on Integrated Watershed Management, IRTCES, Beijing, China, Jul. 27 to Aug. 3, 2009.
- 7) Attending National Workshop on Urban Watershed-Estimation of Floods in Urban Watershed by using SWMM Model, Esfahan, Iran, Apr. 27, 2011.
- 8) Attending and presenting a paper in United Nations/Pakistan International Workshop on "Integrated Use of Space Technologies for Food and Water Security", Islamabad, Pakistan, Mar. 11 to 15, 2013.
- 9) Attending Workshop on "Cultural Missions of Academic Staffs in Education Processes", Tarbiat Modares University, Iran, Jan. 10, 2012.
- 10) Attending and presenting a paper entitled "An Overview on Effectibility of Soil Erosion Process from Climate Change in Iran" in Workshop on "Global Warming, Climate Change and Natural Resources", Tarbiat Modares University, Iran, Apr. 22, 2013.
- 11) Attending Workshop on "Study and Designing of National Project on Integrated Watershed Management", Kalak Education Institute of Professor Javanshir, Iran, Jan. 25 and 26, 2012.
- 12) Attending Workshop on "Study and Designing of National Project on Integrated Watershed Management", Guilan University, Iran, Apr. 24 and 25, 2013.
- 13) Attending Workshop on "Study and Designing of National Project on Integrated Watershed Management", Shiraz University, Iran, Jun. 19 and 20, 2013.
- 14) Attending Workshop on "Study and Designing of National Project on Integrated Watershed Management", Sari University of Agricultural Science and Natural Resources, Jul. 8 and 9, 2013.
- 15) Attending National Workshop on Urban Watershed-Estimation of Floods in Urban Watershed by using SWMM Model, Esfahan, Iran, Apr. 27, 2011.
- 16) Attending Workshop on "Drought and Climate Change", Yazd University, Oct. 29, 2013.
- 17) Establishing Demonstration Stall for Suspended and bed load instruments at National Festival on Water, Soil and Environments Technologies, May 2015.
- 18) Attending Workshop on "Intrepreneurship", Tarbiat Modares University, Jan. 27, 2018.
- 19) Attending Workshop on "Integrated Management of the Watersheds", Soil Conservation and Watershed Management Research Institute, June 19, 2018.
- 20) Attending Brain Storming Virtual Workshop on "Combating Desertification and Drought for Food, Feed and Fiber", International Soil Conservation Organization (ISCO) and Soil Conservation Society of India, June 17, 2020.
- 21) Attending Practical Methods and Scheduling of Paired and Representative Watersheds of Iran, Soil Conservation and Watershed Management Research Institute, Iran, July 28, 2020.
- 22) Attending Workshop on "Rédaction de proposition dans le programme Jean Monnet", Tarbiat Modares University, December. 17, 2020.
- 23) Attending Workshop on "Monitoring the Representative and Paired Watersheds: Managerial Approaches and Future Studies", Water Management Research Center of University of Mohaghegh Ardabili & Scientific Committee of Range and Watershed Management, University of Mohaghegh Ardabili, December. 28, 2021.
- 24) Attending Workshop on "Using Hydrological Modelling to Support Water Resource Planning: Examples for Climate Change Adaptation", Water Management Research Center of University of Mohaghegh Ardabili, & Scientific Committee of Range and Watershed Management, University of Mohaghegh Ardabili, Jan. 21, 2021.
- 25) Attending Workshop on "Best-Worst Multi-Criteria Decision-Making", Tarbiat Modares University and Delft University, June 23, 2021.
- 26) Establishing workshop on "Automatic Device for River Suspended Sediment Measurement based on Optics and Optical Spectrum Technology", Ministry of Energy, Iran, December 22, 2021.
- 27) Holding International Workshop on "Assessing The Health and Sustainability of Wetland" Ramsar Convention, Iran, April 18 and 19, 2022.



- 28) Attending Workshop on challenges and countermeasures of reservoir sedimentation titled "Global Reservoir Sedimentation Risks and Governance Strategies" in the 28th ICOLD CONGRESS & 93rd Annual Meeting in Chengdu, China, May 17-22, 2025.
- 29) Holding International Workshop on "Feasibility of Soil and Water Conservation using Morph-Genetic Porous Carbon (Featuring Scientific Concepts and Practical Session)" Faculty of Natural Resources, Tarbiat Modares University, Iran, June 18, 2025.

XVI) RESPONSIBILITIES and MEMBERSHIPS

- 1) Member of many National Commissions
- 2) One of the establishers of Watershed Management Association in, 1996.
- 3) Representative of Watershed Management Association in Mazandaran Province since 2001.
- 4) Chief, Water Research Committee, Mazandaran Province, Iran, 2004-2005.
- 5) Secretary, 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment, Apr. 28–29, 2010, Noor, Iran
- 6) Member of Editorial Board, Quarterly Magazine of Environment, Jihad-e-Daneshgahi, Iran, 2004.
- 7) Editor-in-Chief, ECOPERSIA, Tarbiat Modares University (<http://ecopersia.journals.modares.ac.ir/>).
- 8) Consultant in Watershed Management Devision, Mahab-e-Ghods Co., Iran since 2007.
- 9) Member of Steering Committee of Soil Conservation and Watershed Management Research Institute of Iran since 2013.
- 10) Member of Editorial Board, Journal of Watershed Management Science and Engineering since 2006.
- 11) Member of Assessment Council (MSRT Representative), Sari Agricultural and Natural Resources University, Iran, 2020-2022.
- 12) Convener of Researches, Theses and Dissertations Division, National Festival on Water, Soil and Environments Technologies, May 2015.
- 13) Member of Steering Committee of Soil Conservation and Watershed Management Research Institute of Iran since 2013.
- 14) Member of High Commission on Agriculture, Water and Natural Resources, Ministry of Science, Researches and Technology of Iran since November 2019.
- 15) Selected Head of the Department, Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University, 2002.
- 16) Selected Head of the Department, Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University, 2006.
- 17) Head of the Department of Watershed Management Engineering, Tarbiat Modares University, May 2015-May 2019.
- 18) Member of Planning Committee of Natural Resources, Ministry of Science, Research and Technology of Iran since 2014.
- 19) Member of editorial board of Land Degradation and Development since June 2016.
- 20) Member of Chair Committee of Soil Conservation and Watershed Management Research Institute of Iran since 2017.
- 21) Member of Steering Committee of Soil Conservation and Watershed Management Research Institute of Iran since 2013.
- 22) Main Member of Society of Development of Water, Drought, Soil Erosion and Environment, Iranian Presidency Deputy of Development and Technology since 2011.
- 23) Committee Member of National and International Seminars
- 24) Member of Science Development Society of Iran since 2011.
- 25) Member of Editorial Board, Journal of Water and Soil Researches, since Jun. 23, 2008.
- 26) Member of Editorial Board, Journal of Soil and Water Science since 2009.
- 27) Member of Editorial Board, Journal of Water and Soil Knowledge since 2008.
- 28) Member of Editorial Board, International Journal of Natural Resources and Marine Sciences since 2010.
- 29) Chairman of the International Wing of the Soil Conservation Society of India since 2010.
- 30) Member of Assessment Council, Tarbiat Modares University, 2010-2014.
- 31) Chief of Natural Resources Committee of Assessment Council, Tarbiat Modares University, 2010-2014.



- 32) Member of Committee on Development and Technology of Water, Drought, Soil Erosion and Environment, Presidency Science and Technology Chapter since 2010.
- 33) Member of committee on Higher Education Planning in Mazandaran Province, 2010.
- 34) Member of Editorial Board, Australian Journal of Basic and Applied Science since Oct. 2013.
- 35) Member of Editorial Board, Journal of Agricultural Science and Technology, Tarbiat Modares University since Jul. 2014.
- 36) Associate Editor, International Soil and Water Conservation Research (ISWCR) since 2017.
- 37) Associate Editor, Land Degradation, and Development since 2018.
- 38) Chief of Natural Resources Committee of Assessment Council, Tarbiat Modares University, 2018-2022.
- 39) Member of Tarbiat Modares University Press Council since 2018.
- 40) Head of the Department of Watershed Management Engineering, Tarbiat Modares University from Oct. 2, 2018 to Nov. 11, 2020.
- 41) Superior Researcher at country level (Iran), 2018.
- 42) Superior innovator of "Design and Manufacturing of 1st Automatic Suspended Sediment Sampler of Iran" at Technology Development Council of Water, Drought, Erosion and Environment, Vice Presidency for Science and Technology of Iran, 2018.
- 43) Member of Permanent Commission of Soil Conservation and Watershed Management Institute, Iran, since 2012.
- 44) Member of Scientific Committee on Adaptation to Dry and Drought of Soil Conservation and Watershed Management Institute, Iran, since 2012.
- 45) Member of Assessment Council, Agricultural Research, Education and Extension, Iran since 2012.
- 46) Member of Editorial Board, Geographical Studies of Arid Zones, Sabzevar Tarbiat Moalem University since 2010.
- 47) Editor-in-Chief, ECOPERSIA, Tarbiat Modares University (<http://ecopersia.journals.modares.ac.ir/>) since 2011.
- 48) Manager in Charge, Iranian Journal of Ecohydrology since 2014.
- 49) Head of Planning and Expansion Committee of Natural Resources, Ministry of Science, Research and Technology of Iran from July 2019 to January 2023..
- 50) Distinguished Extension Awardee(DEA)in Soil and Water Conservation, 2019, WASWAC, New Delhi, India
- 51) Deputy President for WASWAC since Jan. 1, 2020
- 52) Manager in Charge, Journal of Degradation and Rehabilitation of Natural Land since March 2020
- 53) Project Manager, Internal Evaluation of Watershed Management Engineering Department financed by Evaluation and Education Organization of Iran
- 54) Developer of instant three dimensional small gravolometer, 2006.
- 55) Associate Editor, International Journal of Ecology and Development since Jul. 10, 2008.
- 56) World Association of Soil and Water Conservation (WASWC) Vice President for Iran since 2009.
- 57) Editor, World Association of Soil and Water Conservation (WASWC) Bulletin since 2010.
- 58) Consulting Professor in Cultural affairs at Tarbiat Modares University, 2012.
- 59) President of Iranian Society of Watershed Management Science and Engineering, 2012-2020.
- 60) Collaborating in Development of National Strategic Plan of Higher Education in Oceanography and Marine Science of Iran since 2013.
- 61) General secretary 3rd International Youth Forum of World Association of Soil and Water Conservation, Faculty of Natural Resources, Tarbiat Modares University, Iran, October 16-21, 2021.
- 62) Member of Editorial Committee, Bulletin of Soil and Water Conservation for 2021-2024.
- 63) Member of Editorial Board, Indian Journal of Soil Conservation since 2021.
- 64) Member of Scientific Committee of the 16th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Development), IRAN, Shiraz University, 2022.
- 65) Member of the Scientific Committee of the 5th National Conference on Soil Conservation and Watershed Management, SCWMRI, IRAN, April, 2022.
- 66) Member of Academy of Science of IR of Iran since July 2022.



- 67) Manager in Charge, Iranian Journal of Watershed Management Science and Engineering since 2022.
- 68) Member of Assessment Council, Tarbiat Modares University since 2022.
- 69) Chief of Natural Resources Committee of Assessment Council, Tarbiat Modares University since 2022.
- 70) Member of the Scientific Committee of 5th National Conference on Soil Conservation and Watershed Management, Tehran, Iran, May 17 and 18, 2022.
- 71) Member of the Research Proposal Evaluation Committee of the Mazandaran Provincial Management and Planning Organization (Secretariat of the Provincial Education, Research, Technology and Innovation Working Group), Iran, January 2, 2023.
- 72) Member of the Scientific Committee of 17th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Food Security), IRAN, Jiroft University, February 2023.
- 73) Member of the Scientific Committee of 2nd Asian Web Conference on “Managing Hill Resources and Diversities for Zero Hunger and Climate Resilience” New Delhi in collaboration with Central Agricultural University, Imphal, India, 12 and 13 February, 2021.
- 74) Member of the Scientific Committee of 6th National Conference on Soil Conservation and Watershed Management, Tehran, Iran, July 26 and 27, 2023.
- 75) Member of the Scientific Committee of 18th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Rehabilitation and Restoration of Soil and Water Resources), IRAN, Kashan, 6 and 7, March 2024.
- 76) Member of the Scientific Committee of 5th International Conference on Water Resource, Environmental Protection & Sustainable Development (WRES2024), Shanghai, China, December 6-8, 2024.
- 77) Member of the Scientific Committee of 13th National Conference Rainwater Catchment Systems, Gorgan, Iran, November 20-21, 2024.
- 78) Member of Assessment Council, Tarbiat Modares University, 2022-2024.
- 79) Chief of Natural Resources Committee of Assessment Council, Tarbiat Modares University, 2022-2024.
- 80) Member of Natural Resources Committee of Assessment Council, Tarbiat Modares University, Since 2024.
- 81) Member of the Scientific Committee of 19th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management in Coastal Watershed), University of Hormozgan, IRAN, 12 and 13, February 2025.
- 82) Member of Assessment Council (MSRT Representative), Sari Agricultural and Natural Resources University, Iran, since 2025.

XVII) INVENTION, LABORATORY OPERATION and FAIRS

- 1) Establishment of Watershed Management Laboratory, Faculty of Natural Resources, Tarbiat Modares University, Noor, Iran.
- 2) Establisher of Ph.D. Program in Watershed Management Science and Engineering, 2007.
- 3) Design, construction and establishment of Hydrometry station at the main outlet of Tarbiat Modares University Educational and Research Forest Watershed, Iran, 2010.
- 4) Design and Construction of Large Rainfall and Soil Erosion Simulation Laboratory of Tarbiat Modares University in Cooperation with A.V. Khaledi Darvishan and L. Gholami, 2012.
- 5) Innovation of “Bed Load Sampler” with certificate No. of 302147 dated Jun. 11, 2014.
- 6) Innovation of “Produce Biochar for Soil Conservation from Wastes of Sugarcane Factories with Emphasized on Decreasing Environmental Pollution of Waste” with certificate No. of 87671 dated Jan. 6, 2016.
- 7) Participation in the exhibition of specialized achievements of Iran Water Resources Management Company and the specialized exhibition related to the 2021 Research and Technology Festival of the Ministry of Energy, Iran, 2021.
- 8) Innovation of “The process of soil conservation and runoff control using lignocellulosic nanofibers” with certificate No. of 108335 dated Dec. 3, 2022.

XVIII) AWARDS



- 1) Selected Paper in National Seminar on Policies and optimum Utilization of Lands, Iran, 1992.
- 2) Golden Medalist (1st Division) in Bachelor Degree having O.G.P. 18.49 out of 20.
- 3) Golden Medalist (1st Division) in Master Degree having O.G.P. 18.13 out of 20.
- 4) Representative of Foreign students at G.B. Pant University, India for three years.
- 5) Inclusion in Leading Educators in the World 2005, International Biographical Center, Britain, Coded LE/INV and dated Mar. 4, 2005.
- 6) Inclusion in Who's Who in Science and Engineering, United States of America, 2005-2006, Coded EB08D.
- 7) Selected Professor at Tarbiat Modares University in educational year 2004-2005 and 2008-2009.
- 8) Honoring with the "Leadership Award" from Soil Conservation Society of India during International Conference on Conservation Farming Systems and Watershed management in Rainfed Areas for Rural Employment and Poverty Eradication, New Delhi, India, Feb. 12-16, 2008
- 9) Gold Medalist-2014 from Soil Conservation Society of India during International Conference on Natural Resources Management for Food Security and Rural Livelihoods, India, New Delhi, 10-13 Feb. 2015.
- 10) Selected Professor at Tarbiat Modares University introduced for National Competition (Not decided), 2015.
- 11) Superior Researcher of Mazandaran Province, Iran, 2015.
- 12) Selected book (Soil and Water Conservation using Amendments) in Superior Contests held at 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment, Ardabil, Iran, 2018.
- 13) Honoring with the author of selected book (2010) from Tarbiat Modares University.
- 14) Superior Researcher of Mazandaran Province, 2008.
- 15) Superior in Education for 2019 at Tarbiat Modares University
- 16) Superior Researcher at Tarbiat Modares University, 2006, 2009 and 2021.
- 17) Superior Researcher of Mazandaran Province, 2020.
- 18) Selected Associate Editor, Journal of Water and Soil Conservation, Gorgan University of Agricultural Science and Natural Resources, Iran, 2020.
- 19) Superior Professor at Tarbiat Modares University, 2021.
- 20) Author of Top Book of the Year 2021, 3rd National Book Contest in Agriculture and Natural Resources of Iran (Sadeghi et al., 2020. Watershed Health and Sustainability (Principles, Approaches and Assessment Methods), Tarbiat Modares University Press).
- 21) National top scientist in cooperation with society and industry in 2021, Ministry of Science, Research and Technology of Iran.
- 22) Distinguished Professor of Iran, 2021.
- 23) Scientist below 2%-2021, 2022, 2023, and 2024.
- 24) Superior Professor in publishing quality papers (Q1) in ISI journals, 2022.
- 25) Top 5% of Professors in publishing papers in ISI journals at Tarbiat Modares University, 2022.
- 26) Top 5% of Professors in publishing papers in ISI journals at Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University, 2022.
- 27) Awarded the prestigious award University of Tehran, Iran, 2024.
- 28) Awarded the Iran's Scientific Leader award-Iran National Scientific Foundation, 2024.
- 29) Superior Professor in producing the largest number of papers and the most qualitative papers in top 10% of the WoS Journals List, Tarbiat Modares University, 2024.
- 30) Scientific Steward of the Soil in Iran, Commemoration of World Soil Day, Tehran, 2025.

XIX) KEYNOTE SPEAKER

- 1) Keynote speaker, New Approaches in natural Resources Management, National Conference on Advanced Research of Natural Recourses Management, Apr. 16, 2015, Malayer University Iran.
- 2) Key Speaker Speech on Watershed Management in 21st Century for Developing Countries in 13th National Conference on Watershed Management Sciences and Engineering of Iran and 3rd National Conference on Conservation of Natural Resources and Environment, Ardabil, Iran, 2018.
- 3) Key speaker for the Year Soil Day 2019 at Malayer University, Iran.



- 4) Key speaker for the Year Soil Day 2019 at Sari Agricultural and Natural Resources University, Iran.
- 5) Invited Speaker for National Research Week, Kurdistan University, Iran, Dec. 7, 2020.
- 6) Keynote Speaker, Virtual Global Summit on Degraded Land Management to Restore Our Earth, International Soil Conservation Organization (ISCO), Entitled: Integrity: A Must to Sustainably Restore the Degraded Globe, April 22, 2021.
- 7) Keynote Speaker, Adaptive Approach: A Need for the Smart Watershed Management in Developing Countries, 2nd International Web-Conference of ANRCM on Smart Agriculture for Resource Conservation and Ecological Stability, India, 29 and 31 October, 2021.
- 8) Keynote Speaker, Developed Barometer of Sustainability as a Tool of Monitoring Watershed Sustainability and Ecosystem Services, in 1st International Scientific Conference on Environments of Marshes and Surface Water, Thi-Qar University, Iraq, 17 and 18 November 2021.
- 9) Keynote Speaker, "Natural Resources Management in Drought and Economic Crises" on the occasion of Natural Resources Week, Razi University, March 7, 2022.
- 10) Invited Speaker (Sadeghi, S.H.R, Sharifi Moghani, M., Farzadfar, E., Tanha Ziarati, M. and Bahramifar, N.) "Soil Conservation using Molecular Sieve and Sulfur Refinery Wastes" in 1st International Seminar on Soil Conservation, Industry and Food Security, Siraf Port, Bushehr Province, Iran, December 5, 2022.
- 11) Invited Speaker (Sadeghi, S.H.R, Mumzaei, A., Zarei Darki, B., Homae, M., Fallah, A.R. and Kheirfam, H. "Feasibility of using Soil Microorganisms in Soil and Water Conservation in Soils Contaminated with Petroleum" in 1st International Seminar on Soil Conservation, Industry and Food Security, Siraf Port, Bushehr Province, Iran, December 5, 2022.
- 12) Invited Speaker, "Necessity of the Watershed Health Assessment in Hydrology" in Online Young Scientist School MEGAPOLIS 2022, MSU–Lomonosov Moscow State University, Russia, WASWAC–World Association of Soil and Water Conservation and IAHS–International Association of Hydrological Sciences, December 1-6, 2022.
- 13) Keynote speaker, "Conservation Agriculture and Bio-Management" at the 23rd Research and Technology Week, Gorgan University of Agricultural Sciences and Natural Resources, December 18, 2022.
- 14) Keynote Speaker, Challenges and needs in watershed management in Iran, 17th National Conference on Watershed Management Sciences and Engineering of Iran, Iran, March 2023.
- 15) Keynote Speaker, "Current needs in Iran's Watershed Management" in 6th National Conference on Soil Conservation and Watershed Management, Tehran, Iran, July 26 and 27, 2023.
- 16) Keynote Speaker, "Soil-Water-Energy-Food Nexus for Soil Sustainable Management" in 18th Iranian Soil Congress, Agricultural Sciences and Natural Resources University of Khuzistan (Ramin), Mollasani, Iran, January 30- February 1, 2024.
- 17) Keynote Speaker, the 5th International Conference on Water Resource, Environmental Protection & Sustainable Development (WRES2024), Shanghai, China, December 6-8, 2024.
- 18) Key speaker for the World Soil Day 2024 at Mazandaran Province Agricultural and Natural Resources Research Center, Iran.
- 19) Key speaker at the World Soil Day 2025 in commemoration of World Soil Day, Tehran.
- 20) Keynote speaker, in the 1st Iran Conference on Ecohydrology Engineering, College of Interdisciplinary Science and Technology, December 17, 2025, University of Tehran, Iran.

Professor Dr. Seyed Hamidreza Sadeghi

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