

Curriculum Vitae

Dr. Abdulvahed KHALEDI DARVISHAN

PERSONAL INFORMATION

First Name: Abdulvahed
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ACADEMIC EMPLOYMENT

<i>Current Position</i> <i>Dec 2019 - Present</i>	Associate Professor Tarbiat Modares University, Department of Watershed Management Tehran, Iran
<i>Feb 2013 – Dec 2019</i>	Assistant Professor Tarbiat Modares University, Department of Watershed Management Tehran, Iran
<i>Apr 2012 – Sep 2012</i>	Sabbatical Researcher Warsaw University of Life Sciences (WULS) - SGGW, Department of Water Engineering and Environmental Restoration Warsaw, Poland

EDUCATION

<i>Feb 2009 – Jan 2013</i>	Tarbiat Modares University Ph.D., Department of Watershed Management Thesis: Effects of Initial Soil Moisture Content on Runoff and Soil Erosion Processes
<i>Sep 2003 – Jan 2005</i>	Tarbiat Modares University M.A., Department of Watershed Management Thesis: Downstream Changes of River Bed Sediment Morphometry
<i>Sep 1999 – Jul 2003</i>	Razi University B.A., Department of Rangeland and Watershed Management

MAIN SPECIALIZATION

- Soil Erosion
- Sediment Fingerprinting

RESEARCH INTERESTS

- Soil Erosion and Sediment Yield Modelling
- Sediment Fingerprinting and Source Identification
- Sediment Budgeting
- Application of Image Processing Techniques in Soil Erosion Studies and Sediment Morphometry
- Designing and Construction of Rainfall Simulators

RESPONSIBILITIES and MEMBERSHIP

- Councilor of the World Association of Soil and Water Conservation (WASWAC), Sep. 2023 for two years.
- Member of the World Association of Soil and Water Conservation (WASWAC), 2023-2028.
- Vice President of the Watershed Management Society of Iran (WMSI), Mar. 2023 for two years.
- Member of the Board of Directors, Watershed Management Society of Iran (WMSI), from 2020.
- Executive 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.
- Member of the organizing committee of Agrosym International Symposium in Bosnia and Herzegovina (2016 to 2021)
- Member of the Editorial Board of Journal of Watershed Engineering and Management
- Member of the Editorial Board of Extension and Development of Watershed Management
- Member of the Editorial Board of AGROFOR International Journal
- Member of the scientific committee of GEA (Geo-Eco-Eco-Agro) international conference in Montenegro (2020)
- Member of the scientific committee of NIKITINSKIE READINGS international conference in Russia (2019 and 2023)

PUBLICATIONS

Books - Written

Khaledi Darvishan, A., Jafarpour, A., Janizadeh, S., Ebrahimi, Z., Avand, M., Farzi, P., Jafari, F., Ayobi Ayoblu, S., Katebi Kord, A., 2020. "Application of SWOT Analysis in Strategic Watershed Management", New Approaches in Applied Management of Watershed. Gorgan University of Agricultural Sciences & Natural Resources, 267 p.

Sadeghi, S.H., Hazbavi, Z., Gholami, L., **Khaledi Darvishan, A.**, 2017. *Soil and Water Conservation using Amendments*. Tarbiat Modares University, 467 p.

Books - Translated

Gholami, L., Amani, M., **Khaledi Darvishan, A.**, Safavian, A., 2019. Manual on small earth dams: a guide to siting, design and construction (Translated). Sari Agricultural Sciences & Natural Resources University. 179 p.

Books and Proceedings - Edited

Khaledi Darvishan, A., Sadeghi, S.H.R., Moosavi, V., (Eds), 2021. Proceeding of the 3rd International Youth Forum on Soil and water Conservation, 16-21 October 2021, 100 p.

Sadeghi, S.H.R., **Khaledi Darvishan, A.**, 2010. Proceedings of 6th National Seminar on Watershed Management and 4th National Seminar on Soil Erosion and Sediment, 28-29 April 2010, 262 p.

Peer-Reviewed Journal Articles (Published in English)

1. Karimi, N., Gholami, L., **Khaledi Darvishan, A.**, Kavian, A. 2024. Tracing suspended and bed sediments during high and low water periods using geochemical characteristics - Case study: Vazrood watershed, northern Iran. *Journal of Mountain Science* 21(2): 470-483. <https://doi.org/10.1007/s11629-023-8117-3>
2. Haji, K., **Khaledi Darvishan, A.**, Mostafazadeh, R. 2023. Soil erosion and sediment sourcing in the Hyrcanian forests, Northern Iran: an integration approach of the G2loss model and sediment fingerprinting technique. *Modeling Earth Systems and Environment*. <https://doi.org/10.1007/s40808-023-01879-z>
3. Sadeghi, S.H., Chamani, R., Silabi, M.Z., Tavosi, M., Katebikord, A., **Khaledi Darvishan, A.**, Moosavi, V., Sadeghi, P.S., Vafakhah, M. and Rekabdarkolaei, H.M., 2023. Watershed health and ecological security zoning throughout Iran. *Science of The Total Environment*, p.167123. <https://doi.org/10.1016/j.scitotenv.2023.167123>.
4. Kalehhouei, M., Sadeghi, S.H., **Khaledi Darvishan, A.**, 2023. Changeability of runoff and soil loss from inclined mid-sized plots under simulated upward wind-driven rain. *Catena*, 221, 107453. <https://doi.org/10.1016/j.catena.2023.107453>.
5. Mirchooli, F., Dabiri, Z., Strobl, J., **Khaledi Darvishan, A.**, Sadeghi, S.H., 2023. Spatial and Temporal Dynamics of Rangeland Ecosystem Services Across the Shazand Watershed, Iran. *Rangeland Ecology & Management*, 90, 45-55. <https://doi.org/10.1016/j.rama.2023.05.005>.
6. Mohammadi, M., **Khaledi Darvishan, A.**, Bahramifar, N., Alavi, S.J., 2023. Spatio-temporal suspended sediment fingerprinting under different land management practices. *International Journal of Sediment Research*, 38(4): 481-493. <https://doi.org/10.1016/j.ijsrc.2023.02.003>.
7. Kalehhouei, M., Sadeghi, S.H., **Khaledi Darvishan, A.**, 2023. Changes in raindrop properties due to wind blowing using image processing. *Catena*, 221, 106789. <https://doi.org/10.1016/j.catena.2022.106789>

8. Sedighi, F., **Khaledi Darvishan, A.**, Golosov, V., Zare, M.R., Spalevic, V., 2022. Influence of land use on changes of sediment budget components: western Iran case study. *Turkish Journal of Agriculture and Forestry*, 46(6): 838-851. <https://doi.org/10.55730/1300-011X.3046>
9. **Khaledi Darvishan, A.**, Katebikord, A., Mohamad Amini, H., Gholami, L., Filipovic, M., Spalevic, V., 2022. Evaluation of Synthetic–Colour–Contrast Aggregates for Soil Splash Measurement. *Journal of Environmental Protection and Ecology*, 23(8): 3433–3439.
10. Sadeghi, S.H., Vafakhah, M., Moosavi, V., Pourfallah Asadabadi, S., Sadeghi, P.S., **Khaledi Darvishan, A.**, Bagheri Fahraji, R., Mosavinia, S.H., Majidnia, A., Gharemahmudli, S., Moradi Rekabdarkolaei, H.R., 2022. Assessing the health and ecological security of a human induced watershed in central Iran. *Ecosystem Health and Sustainability*, 8(1): 2090447. <https://doi.org/10.1080/20964129.2022.2090447>
11. Sadeghi, S.H., Mirchooli, F. 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. <https://doi.org/10.1080/20964129.2021.2024454>
12. Gholami, L., Hasanzadeh, N., **Khaledi Darvishan, A.**, Younesi, H., 2022. Individual and combined application of powder and soluble nanoclay and biochar on hydrological responses and soil loss at plot scale. *Arabian Journal of Geoscience*, 15, 50. <https://doi.org/10.1007/s12517-021-08242-5>
13. Haji, Kh., **Khaledi Darvishan, A.**, Mostafazadeh, R., 2022. Identification of Erosion Critical Areas Based on Soil Erodibility and Terrain Influence Factors in the Iranian Part of the Caspian Sea Basin. *Agriculture and Forestry*, 68(2): 35-47.
14. Mohammadi, M., **Khaledi Darvishan, A.**, Dinelli, E., Bahramifar, N., Alavi, S.J., 2022. How does land use configuration influence on sediment heavy metal pollution? Comparison between riparian zone and sub-watersheds. *Stochastic Environmental Research and Risk Assessment*, 36: 719-734.
15. Mirchooli, F., Sadeghi, S.H., **Khaledi Darvishan, A.**, Strobl, J. 2021. Multi-dimensional assessment of watershed condition using a newly developed barometer of sustainability. *Science of the Total Environment*, 791: 148389.
16. Abdollahi, Z., Sadeghi, S.H., **Khaledi Darvishan, A.**, 2021. Detailed procedure for outdoor measurement of raindrop size distribution using photogrammetry. *Journal of Hydrology and Hydromechanics*, 69(2): 171-179.
17. Mohammadi, Sh., Balouei, F., Haji, Kh., **Khaledi Darvishan A.**, Karydas, C.G. 2021. Country-scale spatio-temporal monitoring of soil erosion in Iran using the G2 model. *International Journal of Digital Earth*, 14(8): 1019-1039.
18. Mohammadi, M., **Khaledi Darvishan, A.**, Spalevic, V., Dudic, B., Billi, P. 2021. Analysis of the Impact of Land Use Changes on Soil Erosion Intensity and Sediment Yield Using the IntErO Model in the Talar Watershed of Iran. *Water*, 13(6): 881.
19. Gholami, L., **Khaledi Darvishan, A.**, Spalevic, V., Cerda, A., Kaviani, A. 2021. Effect of storm pattern on soil erosion in damaged rangeland; field rainfall simulation approach. *Journal of Mountain Science*, 18(3): 706-715.

20. Sedighi, F., **Khaledi Darvishan, A.**, Zare, M.R., 2021. Effect of Watershed Geomorphological Characteristics on Sediment Redistribution. *Geomorphology*, 375: 107559.
21. Sedighi, F., **Khaledi Darvishan, A.**, Golosov, V., Zare, M.R., 2020. Relationship between precipitation and inventories of fallout radionuclides (^{137}Cs and ^{210}Pb) in the undisturbed soils around the world: A review. *Eurasian Soil Science*, 53(9): 332-1341.
22. Mirchooli, F., Sadeghi, S.H., **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.
23. Mirchooli, F., Kiani-Harchegani, M., **Khaledi Darvishan, A.**, Falahatkar, S. and Sadeghi, S.H., 2020. Spatial distribution dependency of soil organic carbon content to important environmental variables. *Ecological Indicators*, 116: 106473.
24. Zabihi, M., Moradi, H., Gholamalifard, M., **Khaledi Darvishan, A.** and Fürst, C., 2020. Landscape Management through Change Processes Monitoring in Iran. *Sustainability*, 12(5): 1753.
25. El Mouatassime, S., Boukdir, A., Karaoui, I., Skataric, G., Nacka, M., **Khaledi Darvishan, A.**, Sestras, P. and Spalevic, V., 2019. Modelling of soil erosion processes and runoff for sustainable watershed management: Case study Oued el Abid Watershed, Morocco. *Agriculture & Forestry*, 65(4): 241-250.
26. **Khaledi Darvishan, A.**, Mohammadi, M., Skataric, G., Popović, S.G., Behzadfar, M., Sakuno, N.R.R., Mincato, R.L. and Spalevic, V., 2019. Assessment of Soil Erosion, Sediment Yield and Maximum Outflow, Using Intero Model (Case Study: S8-Inta Shirindarreh Watershed, Iran). *Agriculture & Forestry*, 65(4): 203-210.
27. Fakhari, M.A., Lotfalian, M., Hosseini, S.A. and **Khaledi Darvishan, A.**, 2019. Using Wood-Shred, Rice-Straw and Brush-Wood-Dams with Planting Seedlings to Runoff and Erosion Control in a Forest Road Fill Slope. *Croatian Journal of Forest Engineering* 40(2): 327-339.
28. Aliramayee, R., **Khaledi Darvishan, A.** and Arabkhedri, M., 2019. Investigating the hydrological response and nutrient loss in rainfed lands in northeast of Iran using rainfall simulator. *Agriculture & Forestry*, 65(2): 99-112.
29. Mohammadi, M., **Khaledi Darvishan, A.** and Bahramifar, N., 2019. Spatial distribution and source identification of heavy metals (As, Cr, Cu and Ni) at sub-watershed scale using geographically weighted regression. *International Soil and Water Conservation Research*. 7 (3): 308-315.
30. Nikolic, G., Spalevic, V., Curovic, M., **Khaledi Darvishan, A.**, Skataric, G., Pajic, M., Kavian, A. and Tanaskovik, V., 2019. Variability of Soil Erosion Intensity Due to Vegetation Cover Changes: Case Study of Orahovacka Rijeka, Montenegro. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 47(1): 237-248.
31. **Khaledi Darvishan, A.**, Derikvandi, M., Aliramaee, R., Khorsand, M., Spalevic, V., Gholami, L. and Vujacic, D., 2018. Efficiency of Intero Model to Predict Soil Erosion Intensity and Sediment Yield in Khamsan Representative Watershed (West of Iran). *AGROFOR International journal*, 3(2): 22-31.
32. Sadeghi S.H.R., Gharemahmudli S., Kheirfam H., **Khaledi Darvishan A.**, 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: 184-193.
33. Gholami, L., Hasanzadeh, N. and **Khaledi Darvishan, A.**, 2018. Effect of Sawdust on Splash Erosion in Laboratory Condition. *Agriculture & Forestry*, 64(1): 51-56.
 34. Zabihi, M., Mirchooli, F., Motevalli, A., **Khaledi Darvishan, A.**, Pourghasemi, H.R., Zakeri, M.A., and Sadighi, F. 2018. Spatial modelling of gully erosion in Mazandaran Province, northern Iran. *Catena*, 161: 1-13.
 35. Spalevic, V., Radanovic, D., Skataric, G., Billi, P., Barovic, G., Curovic, M., Sestras P. and **Khaledi Darvishan, A.**, 2017. Ecological-Economic (Eco-Eco) Modelling in the Mountainous River Basins: Impact of Land Cover Changes on Soil Erosion. *Agriculture & Forestry*, 63(4): 9-25.
 36. Vujacic, D., Barovic, G., Djekovic, V., Andjelkovic, A., **Khaledi Darvishan, A.**, Gholami, L., Jovanovic, M. and Spalevic, V., 2017. Calculation of Sediment Yield Using the River Basin and Surface and Distance Models A Case Study of the Sheremetski Potok Watershed Montenegro. *Journal of Environmental Protection and Ecology*, 18(3): 1193-1201.
 37. **Khaledi Darvishan A.**, Behzadfar M., Spalevic V., Kalonde P., Ouallali A., and Mouatassime E.S. 2017. Calculation of sediment yield in the S2-1 watershed of the Shirindareh river basin, Iran. *Agriculture & Forestry*, 63(3): 23-32.
 38. Spalevic, V., Lakicevic, M., Radanovic, D., Billi, P., Barovic, G., Vujacic, D., Sestras, P., AND **Khaledi Darvishan, A.**, 2017. Ecological-Economic (Eco-Eco) Modelling in the River Basins of Mountainous Regions: Impact of Land Cover Changes on Sediment Yield in the Velicka Rijeka, Montenegro. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 45(2): 602-610.
 39. Katebikord, A., **Khaledi Darvishan, A.**, and Alavi, J. 2017. Changeability of Soil Erosion Variables in Small Field Plots from Different Rainfall Durations with Constant Intensity. *Journal of African Earth Sciences*, 129: 751-758.
 40. Gholami, L., **Khaledi Darvishan, A.**, and Kavian, A. 2016. Wood chips as soil conservation in field conditions. *Arabian Journal of Geosciences*, 9(19): 729: 1-11.
 41. **Khaledi Darvishan, A.**, Gholami, L., Hadi Ghorghi, J., Spalević, V., Katebikord, A. and Mohamad Amini, H. 2016. Effect of Exclosure on Runoff, Sediment Concentration and Soil Loss in Erosion Plots. *AGROFOR International journal*, 1(1): 49-57.
 42. **Khaledi Darvishan, A.**, Homayonfar, 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(5): 1293-1302.
 43. Sadeghi, S.H.R., Sharifi Moghadam, E. and **Khaledi Darvishan, A.**, 2016. Effects of subsequent rainfall events on runoff and soil erosion components from small plots treated by vinasse. *Catena*, 138: 1-12.
 44. Sadeghi, S.H.R., Gholami, L., Sharifi Moghadam, E., **Khaledi Darvishan, A.** and Homaei, M., 2015. Scale Effect on Runoff and Soil Loss Control Using Rice Straw Mulch under Laboratory Conditions. *Solid Earth*, 6: 1-8.
 45. **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(2): 165-173.

46. Sadeghi, S.H.R., Gholami, L., Homaei, M. and **Khaledi Darvishan, A.**, 2015. Reducing sediment concentration and soil loss using organic and inorganic amendments at plot scale. *Solid Earth*, 6: 445-455.
47. Gholami L., Banasik K., Sadeghi S.H.R., **Khaledi Darvishan A.** 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: 51–60.
48. Sadeghi, S.H.R., Gholami, L., **Khaledi Darvishan, A.** and Saeidi, P., 2014. A Review of the Application of the MUSLE Model World-Wide. *Hydrological Sciences Journal*, 59(1-2): 365-375.
49. **Khaledi Darvishan, A.**, Sadeghi, S.H.R., Homaei, M. and Arabkhedri, M., 2014. Measuring Sheet Erosion using Synthetic Color-Contrast Aggregates. *Hydrological Processes*, 28(15): 4463-4471.
50. Sadeghi, S.H.R., Abdollahi, Z. and **Khaledi Darvishan, A.**, 2013. Experimental Comparison of Some Techniques for Estimating Natural Raindrop Size Distribution on the South Coast of the Caspian Sea, Iran. *Hydrological Sciences Journal*, 58(6): 1374-1382.
51. Sadeghi, S.H.R., Gholami, L. and **Khaledi Darvishan, A.**, 2013. Suitability of MUSLT for Storm Sediment Yield Prediction in Chehelgazi Watershed, Iran. *Hydrological Sciences Journal*, 58(4): 892-897.
52. **Khaledi Darvishan, A.**, Sadeghi, S.H.R., Homaei, M. and Arabkhedri, M., 2012. Potential Use of Synthetic Color-Contrast Aggregates and a Digital Image Processing Technique in Soil Splash Measurements, *IAHS Publication*, No. 356: 364-368.
53. **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*, 42(1): 51-60.

Peer-Reviewed Journal Articles (Published in Persian)

1. Kamari Yekdangi, F., **Khaledi Darvishan, A.**, Aghabeigi Amin, S. 2024. Effect of correction points of the erodibility factor map on soil erosion estimation in G2 model. *Journal of New Approaches in Water Engineering and Environment*, 2(2): 158-169.
2. Chamani, R., Shekohideh, H., Zare, K., Zarei, R., Amini, H., Hemati, L., Moosavi, V., **Khaledi Darvishan, A.** 2023. Application of SWOT analysis with separation of natural and anthropogenic factors in the integrated management of the Mikhsaz Watershed, Mazandaran Province. *Watershed Engineering and Management*, 15(4): 588-602.
3. Kamari Yekdangi, F., Sarouneh, F., **Khaledi Darvishan, A.**, Moosavi, V., Aghabeigi Amin, S. 2023. Efficiency of different land use/land cover mapping methods in Kasilian representative watershed. *Ecohydrology*. 10 (3), 321-334.
4. Haji, Kh., **Khaledi Darvishan, A.**, Mostafazadeh, R., 2023. Spatiotemporal variations of the rainfall erosivity with considering snow cover correction coefficient in the Iranian part of the Caspian Sea Basin. *Journal of Watershed Management Research Journal*, 36(3): 70-89.
5. Khatibi Roudbarsara, D., **Khaledi Darvishan, A.**, Alavi, J., 2023. Evaluation of Erosion Sensitivity of Lithological Units in Vaz Watershed, Mazandaran Province Using Fingerprinting. *Journal of Water and Soil Science*, 27(2): 299-311.

6. Sadeghi, S.H., **Khaledi Darvishan, A.**, Vafakhah, M., Moradi Rekabdarkolaei, H., Hazbavi, Z., Rajabi, M., Ebrahimi Gatekesh, Z., Zaki, S.A., Pourfallah Asadabadi, S., Haji, Kh., Nasiri Khiavi, A., Mumzaei, A., Kalehhouei, K., Mehri, S., Miarnaeimi, S., Pournabi, S., 2023. Conceptualization and Evaluation of Asiabrood Watershed Health, Chalus Township. *Journal of Watershed Management Research Journal*, 14 (27): 15-25.
7. Khodamoradi, H., **Khaledi Darvishan, A.**, Sadeghi, S., 2023. Performance Evaluation of Watershed Management Measures in Reducing Soil Erosion in treated and control sub-watersheds of Khamsan Representative Watershed using 137Cs Method. *Journal of Watershed Management Research Journal*, 36(2): 2-17.
8. Sadeghi, P., **Khaledi Darvishan, A.**, 2022. Effect of Fire Treatment on Aggregate Stability and Splash Components in Laboratory Condition. *Watershed Engineering and Management*, 15(2): 185-200.
9. Karimi, N., Gholami, L., Kavian, A., **Khaledi Darvishan, A.** 2022. Determination of specific contribution of suspended sediment sources in Vaz watershed using geochemical characteristics. *Ecohydrology*, 9(4): 705-718.
10. Zarei, R., **Khaledi Darvishan, A.**, 2022. The Role of Surface Sealing on Sediment Concentration and Soil Loss in Laboratory Plots under Simulation of Subsequent Rainfalls. *Journal of Watershed Management Research Journal*, 13(26): 230-242.
11. Karimi, N., Gholami, L., Kavian, A., **Khaledi Darvishan, A.**, 2023. Separation of the Relative Contribution of Different Land Covers in Bed Sediment Yield in Vaz River Using Geochemical Characteristics. *Watershed Management Research Journal*, 35(4): 77-89.
12. Mirchooli, F., Sadeghi, S., **Khaledi Darvishan, A.**, 2022. Comparative analysis of the effect of different algorithms for calculating the topographic factor on the amount and spatial distribution of soil erosion in the Shazand Watershed, Iran. *Watershed Engineering and Management*, 14(2): 232-242.
13. Kalehhouei, M., Sadeghi, S. H., **Khaledi Darvishan, A.** 2021. Water Erosion Reactivity from Some Climatic Factors. *Extension and Development of Watershed Management*, 9(34): 20-27.
14. Zabihi Silabi, M., **Khaledi Darvishan, A.** 2021. Qualitative Evaluation of IntErO, EPM, MPSIAC and RUSLE Models in Order to Select the Optimal Models for Different Conditions for Description of Detailed-Executive Watershed Management Services. *Extension and Development of Watershed Management*, 9(32): 52-66.
15. Gholami, L., **Khaledi Darvishan, A.**, Karimi, N., 2021. Variability of Sediment Components with Application of Vermicompost and Nano-manure and Various Moisture Levels. *JWSS*. 25(3): 131-143.
16. Amjadi M, **Khaledi Darvishan A.**, 2021. Downstream Changes in Heavy Metal Concentrations and Pollution Indices of Bed Sediments in Khamsan Representative Watershed. *Journal of Watershed Management Research Journal*, 12(24): 159-169.
17. Sadeghi S.H., **Khaledi Darvishan A.**, Vafakhah M., Moradi Rekabdarkolaei H., Nasiri Khiavi A., Rajabi M.R., Miar Naeimi, S., Pournabi, S., Ebrahimi Gatgesh, Z., Zaki, S.A., 2021. Integrated and Problem-Based Management of the Watershed using Strategic Planning Framework. *Journal of Watershed Management Sciences and Engineering*. 15(52) :63-66.

18. Hasanzadeh, N., Gholami, L., **Khaledi Darvishan, A.**, Yonesi, H., 2021. Effect of Various Rates of Montmorillonite Nanoclay on Changing Runoff and Soil Loss. *JWSS*. 25(1): 219-230.
19. **Khaledi Darvishan, A.**, Faraji, J., Gholami, L., Khorsand, M. 2021. Spatio-temporal variation of soil erosion in Khamsan representative watershed using RUSLE. *Watershed Engineering and Management*, 13(3): 534-547.
20. **Khaledi Darvishan, A.**, Sadeghi, S., Homaei, M., Arabkhedri, M. 2021. Sediment Budgeting in Laboratory Plots under Rainfall Simulation. *Watershed Management Research Journal*, 34(2): 15-31.
21. Zabihi, M., Moradi, H., **Khaledi Darvishan, A.**, Gholamalifard, M. 2021. Application of InVEST Ecosystem Services Model to Prioritize Sub-watersheds of Talar in term of Soil Erosion, Sediment Retention and Yield. *Environment and Water Engineering*, 7(2): 294-304.
22. Rajabi, M., Nasiri Khiavi, A., Kalehhouei, M., Mehri, S., Mumzaei, A., Haji, K., **Khaledi Darvishan, A.** 2021. Prioritization of Integrated Watershed Management Approaches Proportionate to the Number of Strengths and Opportunities in SWOT Analysis. *Watershed Engineering and Management*, 13(2): 295-309.
23. Adami, M. **Khaledi Darvishan, A.** 2021. Evaluation of Runoff Components in Laboratory Plots with Straw Conservation Treatment. *Watershed Management Research Journal*, 34(1): 112-125.
24. Mohammadamini, H., Khaledi Darvishan, A., Alavi, J., 2020. Effects of Soil Surface Rock Fragments on Runoff Variables of Field Plots under Rainfall Simulation. *Journal of Watershed Management Research Journal*. 11(22), 243-253.
25. Zarei, R., **Khaledi Darvishan, A.** 2020. The Role of Surface Sealing Caused by Subsequent Rainfall in the Runoff Components at the Kojour Watershed Mazandaran. *Watershed Management Research Journal*, 33(4): 79-95.
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AWARDS AND HONOURS

<i>Aug 2018</i>	Award: Youth Outstanding Paper Award (Datum) 2018 - WASWAC - Moscow, Russia
<i>Aug 2014</i>	Award: Best PhD Thesis for the period 2013 selected by "Watershed Management Society of Iran (WMSI)"
<i>Feb 2013</i>	Award: First rank graduate of the PhD Degree, GPA 18.99 / 20 (Thesis: 19.79 / 20)
<i>Dec 2008</i>	Award: First Rank of the PhD Entrance Examination
<i>Feb 2005</i>	Award: First rank graduate of the MSc Degree, GPA 18.42 / 20 (Thesis: 19.28 / 20)

Jul 2003 Award: First Rank of the MSc Entrance Examination
 Jul 2003 Award: First rank graduate of the BSc Degree, GPA 18.14 / 20

GRANTS AND FELLOWSHIPS

Sep 2010 – Feb 2013 PhD Scholarship, Iran Ministry of Science, Research and Technology

RESEARCH PROJECT EXPERIENCE

2021. Co-PI. Assessment of Five-Year Rangeland Preservation Affecting Soil Sustainability Index and Soil Quality in the Dalahoo, Kermanshah Province, Iran, Soil Conservation and Watershed Management Research Institute, Iran, 74 p.
2021. Co-PI. Health Atlas of Pishkooch Watershed, Taft City, Yazd Province, Iran. Department of Natural Resources and Watershed Management of Yazd Province, 156 p.
- 2020. PI. Assessing the Environmental Diversity of Iran. Forests, Range and Watershed Management Organization of Iran.**
2019. Co-PI. 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, 167 p.
2014. Co-PI. Study on Effects of Sand and Gravel Minings on Morphometric Characteristics of Suspended and Bed Loads. Iran National Science Foundation (INSF).
2004. Co- PI. Study on Morphometrical Variations of Bed Load Sediments along Vaz River in Mazandaran Province, Tarbiat Modares University.

INVITED TALKS

- 2023 – Keynote Speaker: “Investigating the contribution of main land uses in soil erosion and sediment yield in the southern watersheds of the Caspian Sea”. Perm State Agro-Technological University, Perm, Russia, 14-17 November 2023.
- 2019 – Keynote Speaker: “Soil Erosion Researches in Khamsan Representative and Paired Watersheds (KHRPW) Approaches and Goals”. Perm State Agro-Technological University, Perm, Russia, 19-22 November 2019.
- 2020 – Keynote Speaker: “Global distribution of ^{137}Cs and $^{210}\text{Pb}_{\text{excess}}$ in the reference soil due to annual precipitation and latitudinal zoning”. University of Montenegro, Podgorica, Montenegro, 28-31 May 2020.

TEACHING EXPERIENCE

Kurdistan University

Undergraduate courses

Soil and water conservation structures	B.Sc.	Previous
Watershed management	B.Sc.	Previous

Tarbiat Modares University

Graduate courses

Sediment sourcing	Ph.D.	Ongoing
Erosion and sediment models	M.Sc.	Ongoing
Applied sedimentology	M.Sc.	Ongoing
Advanced sedimentology	M.Sc.	Previous
River management	Ph.D.	Ongoing
Mass movements	M.Sc.	Ongoing
Advanced watershed management	Ph.D.	Ongoing
Evaluation of water and soil conservation projects	M.Sc.	Ongoing
Research methodology	M.Sc.	Ongoing
Water, soil and plants relationship	M.Sc.	Previous

THESIS SUPERVISED

Thesis Title	Grade	Name of the Candidate	Defense Time
Effect of Spatial Scale on Watershed Sediment Budget	Ph.D.	Fatemeh Sedighi	2021
Temporal Variations of Sediment Source and Quality in Talar Watershed	Ph.D.	Maziar Mohammadi Khanghah	2021
Spatio-temporal variations of soil erosion and the relative contribution of sediment sources in the Iranian part of the Caspian Sea Basin	Ph.D.	Khadijeh Haji	2023
Analysis of the Erosional History using Soil Redistribution, Sediment Fingerprinting and Measurement	Ph.D.	Negin Ghaderi Dehkordi	Ongoing
Relationship between Topographic Metrics and Sediment Budget Components	Ph.D.	Reza Zarei	Ongoing
Variability of the Contribution of Suspended and Bed Sediment Sources during Storm Hydrograph	Ph.D.	Fatemeh Akbari	Ongoing
Land Use Contributions to Suspended and Bed Sediment Yields with Different Sizes in Kasilian Representative Watershed	Ph.D.	Vahid Beiranvandi	Ongoing
Comparison of Surface Runoff and Soil Loss from Field Plots with Disturbed and Undisturbed Soils	M.Sc.	Vafa Homayounfar	2014
Analyzing the Effects of Rainfall Duration on Soil Erosion Process in Field Plots under Rainfall Simulation	M.Sc.	Azadeh Katebikord	2015
Analyzing the Effects of Soil Surface Rock Fragments on Soil Erosion Process in Field Plots under Rainfall Simulation	M.Sc.	Hero Mohammadamini	2015
Effect of Rainfall Intensity and Slope on Infiltration, Runoff, Soil and Nutrient Loss in Rainfed Lands (Case Study: Kalaleh Region, Golestan Province)	M.Sc.	Ramyar Aliramayee	2016

Analyzing the Monthly, Seasonal and Annual Sediment Delivery Ratio at Plot Scale	M.Sc.	Mohammad Derikvandi	2016
Accuracy assessment of the estimation of monthly, seasonal and annual soil erosion and sediment delivery ratio using RUSLE model in GIS Environment	M.Sc.	Mohsen Khorsand	2017
The Role of Surface Sealing on Runoff and Soil Loss in Subsequent Rainfalls	M.Sc.	Reza Zarei	2018
Effect of Straw Conservation Treatment on Runoff and Soil Loss Changes in Surface Roughness	M.Sc.	Mostafa Adami	2018
Spatial Changeability of Performance of Watershed Management Measures in Reducing Soil Erosion in Khamsan Representative Watershed using Cs- 137 Method	M.Sc.	Hamid khodamoradi	2019
Etimating Spatial Variations of Sedeiment Delivery Ratio in Khamsan Representative Watershed using WaTEM/SEDEM	M.Sc.	Jalal Faraji	2019
Evaluation of the Estimates of WaTEM/SEDEM and 137Cs in the Khamsan Representative Watershed using Sediment Measurements in Check Dam Reservoirs	M.Sc.	Elaheh Fathi Dareh Nijeh	2019
Evaluation of sediment delivery ratio estimating methods in Khamsan representative watershed	M.Sc.	Nasrin Azami	2019
Relationship Analysis between Sediment Delivery Ratio and Sediment Structural Connectivity Index in the Khamsan Representative Watershed	M.Sc.	Bita Mahmoudi	2019
Spatial Distribution and Source Identification of Heavy Metals in Khamsan Representative Watershed, Iran	M.Sc.	Mohammad Amjadi	2020
Effect of Fire on Aggregate Stability and Splash Erosion Components under Laboratory Conditions	M.Sc.	Padidehossadat Sadeghi	2020
Tracing soil erosion and main sediment sources in a small watershed using n-alkanes	M.Sc.	Shahrbanoo Pourbakhshi	2022
Downstream Changes of the Contribution of Erosion Types in Bed Sediment Yield in Vaz River	M.Sc.	Donya Khatibi Rudbarsara	2022
Spatial Variations of Bed Sediment Quality Indices in Vaz River, Mazandaran Province	M.Sc.	Somayeh Pooram Nitlakh	2023
Contribution of Factors Affecting Annual Soil Erosion and Sediment Yield in Kasilian representative Watershed by Combining the Results of G2 Model and Geodetector Statistical Method	M.Sc.	Faezeh Kamari Yekdangi	2023
Spatiotemporal Analysis of Monthly Soil Erosion and Sediment Yield using RUSLE and TLSM Models in Kasilian Watershed	M.Sc.	Fatemeh Sarouneh	2023
Effect of Combined Application of Sawdust and Polyvinyl Acetate in Controlling Surface Runoff and Soil Loss in Small Experimental Plots under Rainfall Simulation	M.Sc.	Arasteh Payfeshordeh	Ongoing

Abdulvahed Khaledi Darvishan

February 2024