

Saeed Shojaei
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Overview

- PhD in the field of natural resources
- researcher experience on hydrology and water quality
- Total working experience of 10 years in different laboratories in Iran
- Total teaching experience of 6 years in Sweden, Iran and Turkey
- Interdisciplinary skill sets in advanced modeling methods, RS & GIS, soil and water analysis, and pollution

Appointments

Researcher (soil erosion)	1/2021-present
Location: University of Tehran, Iran	

Education

PhD in Natural Resources	9/2015-10/2020
Location: Yazd University, Iran	
Advisors: Prof. M. Hakimzadeh & Prof. H. Sodaizadeh & Prof. M. Jafari	
Thesis: New laboratory techniques in making organic-mineral mulch to control wind and water erosion and its use in global scale	

MSc in Range and Watershed Management	9/2012 – 10/2014
Location: University of Tehran, Iran	
Advisors: Prof. M. Jafari & Prof. Gh. R. Zehtabian & Prof. H. Khosravi	
Thesis: The effect of Unconventional water utilization on soil reclamation or destruction in arid areas	

BSc in Natural Resource Management	9/2007- 9/2012
Location: University of Zabol, Iran	

Awards

Ranked among the top 1% in Iranian University Entrance Exam (Masters: 2012-2013)
Ranked among the top 1% in Iranian University Entrance Exam (PhD: 2014-2015)
Ranked 5th in the Mathematical Olympiad (2003-2004)

Patent

Reduce water consumption (Bathtub Multifunction)

Professional Skills

Python, MATLAB, GIS & RS, ENVI, IDRISI, ArcView, SPSS, Expert choose, Design Expert, Fractalyse, Genxpro (GP & GEP), HEC_HMS, Auto CAD, SAS, Google earth, ELWIS

Funding

Research grant from University of Tehran, Iran	1/2021-present
PhD scholarship from Yazd University, Iran	9/2015-10/2020

Publications

1. Aliabad, F. A., Malamiri, H. R. G., **Shojaei**, S., Sarsangi, A., Ferreira, C. S. S., & Kalantari, Z. (2022). Investigating the Ability to Identify New Constructions in Urban Areas Using Images from Unmanned Aerial Vehicles, Google Earth, and Sentinel-2. *Remote Sensing*, 14(13), 3227.
2. Yang, J., Shojaei, S., & **Shojaei**, S. (2022). Removal of drug and dye from aqueous solutions by graphene oxide: Adsorption studies and chemometrics methods. *NPJ Clean Water*, 5(1), 1-10.
3. Mansournoghaddam, M., Ghafarian Malamiri, H. R., Arabi Aliabad, F., Fallah Tafti, M., Haghani, M., & **Shojaei**, S. (2022). The Separation of the Unpaved Roads and Prioritization of Paving These Roads Using UAV Images. *Air, Soil and Water Research*, 15, 11786221221086285.
4. **Shojaei**, S., Ashofteh, P., Dwijendra, N. K. A., Melesse, A. M., Shahvaran, A. R., Shojaei, S., & Homayoonnezhad, I. (2022). Impacts on Global Temperature During the First Part of 2020 Due to the Reduction in Human Activities by COVID-19. *Air, Soil and Water Research*, 15, 11786221221101901.

5. Ardakani, A. H. H., **Shojaei**, S., Shahvaran, A. R., Kalantari, Z., Cerdà, A., & Tiefenbacher, J. (2022). Selecting potential locations for groundwater recharge by means of remote sensing and GIS and weighting based on Boolean logic and analytic hierarchy process. *Environmental Earth Sciences*, 81(1), 1-19.
6. Manzouri, F., Zare, M., & **Shojaei**, S. (2022). Exploring the potential of spatial artificial neural network in estimating topsoil salinity changes of in arid lands. *Spatial Information Research*, 1-12.
7. Purabadeh, A., Mehdizadeh, B., Shojaei, S., Farahani, M. D., & **Shojaei**, S. (2022). Synthesis of zero-valent iron nanoparticles for ultrasonic assisted dye removal: Modeling and optimization. *Iranian Journal of Public Health*, 51(2), 471.
8. Shojaei, S., **Shojaei**, S., Band, S. S., Farizhandi, A. A. K., Ghoroghi, M., & Mosavi, A. (2021). Application of Taguchi method and response surface methodology into the removal of malachite green and auramine-O by NaX nanozeolites. *Scientific reports*, 11(1), 1-13.
9. Pourabadeh, A., Baharinikoo, L., Nouri, A., Mehdizadeh, B., & **Shojaei**, S. (2021). The optimisation of operating parameters of dye removal: application of designs of experiments. *International Journal of Environmental Analytical Chemistry*, 101(9), 1320-1329.
10. **Shojaei**, S., Jafarpour, A., Shojaei, S., Gyasi-Agyei, Y., & Rodrigo-Comino, J. (2021). Heavy metal uptake by plants from wastewater of different pulp concentrations and contaminated soils. *Journal of Cleaner Production*, 296, 126345.
11. Malamiri, H. R. G., Aliabad, F. A., **Shojaei**, S., Morad, M., & Band, S. S. (2021). A study on the use of UAV images to improve the separation accuracy of agricultural land areas. *Computers and Electronics in Agriculture*, 184, 106079.
12. Shojaei, S., **Shojaei**, S., Nouri, A., & Baharinikoo, L. (2021). Application of chemometrics for modeling and optimization of ultrasound-assisted dispersive liquid-liquid microextraction for the simultaneous determination of dyes. *NPJ Clean Water*, 4(1), 1-8.
13. Shojaei, S., Nouri, A., Baharinikoo, L., Farahani, M. D., & **Shojaei**, S. (2021). Removal of the hazardous dyes through adsorption over nanozeolite-X: Simultaneous model, design and analysis of experiments. *Polyhedron*, 196, 114995.
14. **Shojaei**, S., Ardakani, M. A. H., Sodaiezhadeh, H., Jafari, M., & Afzali, S. F. (2021). New laboratory techniques (novel) in making organic-mineral mulch to control wind and water erosion and its use in global scale. *Spatial Information Research*, 29(1), 97-107.
15. Shojaei, S., & **Shojaei**, S. (2021). Optimization of process conditions in wastewater degradation process. In *Soft Computing Techniques in Solid Waste and Wastewater Management* (pp. 381-392). Elsevier.
16. Pourabadeh, A., Baharinikoo, L., Shojaei, S., Mehdizadeh, B., Davoodabadi Farahani, M., & **Shojaei**, S. (2020). Experimental design and modelling of removal of dyes using nano-zero-valent iron: a simultaneous model. *International Journal of Environmental Analytical Chemistry*, 100(15), 1707-1719.
17. **Shojaei**, S., Kalantari, Z., & Rodrigo-Comino, J. (2020). Prediction of factors affecting activation of soil erosion by mathematical modeling at pedon scale under laboratory conditions. *Scientific Reports*, 10(1), 1-12.
18. Forozan, G., Elmi, M. R., Talebi, A., Mokhtari, M. H., & **Shojaei**, S. (2020). Temporal-spatial simulation of landscape variations using combined model of markov chain and automated cell. *KN-Journal of Cartography and Geographic Information*, 70(2), 45-53.
19. **Shojaei**, S., Ardakani, M. A. H., & Sodaiezhadeh, H. (2020). Simultaneous optimization of parameters influencing organic mulch test using response surface methodology. *Scientific reports*, 10(1), 1-11.
20. Nhu, V. H., Rahmati, O., Falah, F., **Shojaei**, S., Al-Ansari, N., Shahabi, H., ... & Ahmad, B. B. (2020). Mapping of groundwater spring potential in karst aquifer system using novel ensemble bivariate and multivariate models. *Water*, 12(4), 985.
21. Mehr, H. V., Saffari, J., Mohammadi, S. Z., & **Shojaei**, S. (2020). The removal of methyl violet 2B dye using palm kernel activated carbon: thermodynamic and kinetics model. *International Journal of Environmental Science and Technology*, 17(3), 1773-1782.
22. Ardakani, A. H. H., **Shojaei**, S., Siasar, H., & Ekhtesasi, M. R. (2020). Heuristic evaluation of groundwater in arid zones using remote sensing and geographic information system. *International Journal of Environmental Science and Technology*, 17(2), 633-644.
23. **Shojaei**, S., Ardakani, M. A. H., Sodaiezhadeh, H., Jafari, M., & Afzali, S. F. (2019). Optimization using response surface method (RSM) to investigate the compaction of mulch. *Modeling Earth Systems and Environment*, 5(4), 1553-1561.
24. **Shojaei**, S., Ardakani, M. A. H., & Sodaiezhadeh, H. (2019). Optimization of parameters affecting organic mulch test to control erosion. *Journal of environmental management*, 249, 109414.
25. Rastegaripour, F., Saboni, M. S., Shojaei, S., & Tavassoli, A. (2019). Simultaneous management of water and wastewater using ant and artificial neural network (ANN) algorithms. *International Journal of Environmental Science and Technology*, 16(10), 5835-5856.
26. Piri, I., Moosavi, M., Taheri, A. Z., Alipur, H., **Shojaei**, S., & Mousavi, S. A. (2019). The spatial assessment of suitable areas for medicinal species of Astragalus (*Astragalus hypsogeton* Bunge) using the Analytic Hierarchy Process (AHP)

and Geographic Information System (GIS). *The Egyptian Journal of Remote Sensing and Space Science*, 22(2), 193-201.

27. **Shojaei**, S. (2019). Optimization of process variables by the application of response surface methodology for dye removal using nanoscale zero-valent iron. *International Journal of Environmental Science and Technology*, 16(8), 4601-4610.
28. Arabi Aliabad, F., **Shojaei**, S., Zare, M., & Ekhtesasi, M. R. (2019). Assessment of the fuzzy ARTMAP neural network method performance in geological mapping using satellite images and Boolean logic. *International journal of environmental science and technology*, 16(7), 3829-3838.
29. Aliabad, F. A., & **Shojaei**, S. (2019). The impact of drought and decline in groundwater levels on the spread of sand dunes in the plain in Iran. *Sustainable Water Resources Management*, 5(2), 541-555.
30. **Shojaei**, S., **Shojaei**, S., & Pirkamali, M. (2019). Application of Box–Behnken design approach for removal of acid black 26 from aqueous solution using zeolite: modeling, optimization, and study of interactive variables. *Water Conservation Science and Engineering*, 4(1), 13-19.
31. Poudineh, Z., Fakheri, B. A., Sirosmehr, A. R., & **Shojaei**, S. (2018). Genetic and morphological diversity of fennel by using ISSR marker and biplot analysis. *Indian Journal of Plant Physiology*, 23(3), 564-572.
32. Ardakani, A. H. H., **Shojaei**, S., Ekhtesasi, M. R., & Ardakani, A. P. (2018). Evaluation of the quantitative and qualitative relationship between springs and geological formations using geostatistics as well as Boolean logic in Iran. *Arabian Journal of Geosciences*, 11(14), 1-12.
33. Poudineh, Z., Fakheri, B. A., Sirosmehr, A. R., & **Shojaei**, S. (2018). Effect of drought stress on the morphology and antioxidant enzymes activity of *Foeniculum vulgare* cultivars in Sistan. *Indian Journal of Plant Physiology*, 23(2), 283-292.
34. **Shojaei**, S., Alipur, H., Ardakani, A. H. H., Nasab, S. N. H., & Khosravi, H. (2018). Locating Astragalus hypsogeton Bunge appropriate site using AHP and GIS. *Spatial Information Research*, 26(2), 223-231.
35. Fathizad, H., Tazeh, M., Kalantari, S., & **Shojaei**, S. (2017). The investigation of spatiotemporal variations of land surface temperature based on land use changes using NDVI in southwest of Iran. *Journal of African Earth Sciences*, 134, 249-256.
36. Eslami, Z., **Shojaei**, S., & Hakimzadeh, M. A. (2017). Exploring prioritized sub-basins in terms of flooding risk using HEC_HMS model in Eskandari catchment, Iran. *Spatial Information Research*, 25(5), 677-684.
37. **Shojaei**, S., & **Shojaei**, S. (2017). Experimental design and modeling of removal of Acid Green 25 dye by nanoscale zero-valent iron. *Euro-Mediterranean Journal for Environmental Integration*, 2(1), 1-7.
38. Khanamani, A., Fathizad, H., Karimi, H., & **Shojaei**, S. (2017). Assessing desertification by using soil indices. *Arabian journal of geosciences*, 10(13), 1-10.
39. Fathizad, H., Pakbaz, N., Sodaiezhadeh, H., & **Shojaei**, S. (2017). Exploring canola planting area using AHP associated with GIS in Meymeh–Zarinabad of Iran. *Spatial Information Research*, 25(3), 371-379.
40. Dehghani, A. A., Bahremand, A. R., & **Shojaei**, S. (2017). Intelligent estimation of flood hydrographs using an adaptive neuro–fuzzy inference system (ANFIS). *Modeling Earth Systems and Environment*, 3(1), 1-9.
41. **Shojaei**, S., **Shojaei**, S., & Sasani, M. (2017). The efficiency of eliminating Direct Red 81 by Zero-valent Iron nanoparticles from aqueous solutions using response surface Model (RSM). *Modeling Earth Systems and Environment*, 3(1), 1-7.
42. **Shojaei**, S., Khammarnia, S., **Shojaei**, S., & Sasani, M. (2017). Removal of reactive red 198 by nanoparticle zero valent iron in the presence of hydrogen peroxide. *Journal of Water and Environmental Nanotechnology*, 2(2), 129-135.
43. Cheshmidari, M. N., Hatefi Ardakani, A. H., Alipor, H., & **Shojaei**, S. (2017). Applying Delphi method in prioritizing intensity of flooding in Ivar watershed in Iran. *Spatial Information Research*, 25(2), 173-179.
44. Arast, M., Zehtabian, G., Jafari, M., Khosravi, H., & **Shojaee**, S. (2017). Effects of urban wastewater, saline water, and brackish water on some soil properties (case study: Qom Plain). *Iranian Journal of Range and Desert Research*, 23(3).
45. **Shojaei**, S., & Jafari, M. (2017). Effects of irrigation with ABSAR supplement on the growth of *Panicum eruciferum*. *Iranian Journal of Range and Desert Research*, 24(2).
46. **Shojaei**, S., Zehtabian, G., Jafari, M., & Khosravi, H. (2017). Evaluating the application of wastewater in different soil depths (Case study: Zabol). *Pollution*, 3(1), 113-121.
47. Piri, I., Khanamani, A., **Shojaei**, S., & Fathizad, H. (2017). Determination of the best geostatistical method for climatic zoning in Iran. *Applied Ecology and Environmental Research*, 15(1), 93-103.
48. Alipur, H., Zare, M., & **Shojaei**, S. (2016). Assessing the degradation of vegetation of arid zones using FAO–UNIP model (case study: Kashan zone). *Modeling Earth Systems and Environment*, 2(4), 1-6.
49. Hamidy, N., Alipur, H., Nasab, S. N. H., Yazdani, A., & **Shojaei**, S. (2016). Spatial evaluation of appropriate areas to collect runoff using Analytic Hierarchy Process (AHP) and Geographical Information System (GIS)(case study: the catchment “Kasef” in Bardaskan. *Modeling Earth Systems and Environment*, 2(4), 1-11.

50. Arast, M., Zehtabian, G. H., Jafari, M., Khosravi, H., & **Shojaei, S.** (2016). Simulation of changes trend in soil chemical properties Irrigated with wastewater using Gene expression programming model. *Natural Ecosystems of Iran*, 7(2), 23-34.
51. Tavili, A., Arast, M., & **Shojaei, S.** (2016). Effect of different treatments on seed dormancy breaking and germination stimulation of *Ammodendron persicum*. *Iranian Journal of Seed Research*, 2(2).
52. **Shojaei, S.** (2016). Evaluation of pH and EC changes in wastewater application in different depths of soil. *J Res Ecol*, 4(2), 340-346.

Book

1. **Shojaei, S. Shojaei, S.** Optimization of process conditions in wastewater degradation process. ([Elsevier Book](#))
Publication Date: 30-Sep-21 ISBN: 603284
2. **S Shojaei, I** Homayonnezhad. Soil Science In View of Natural Resources
Norouzi Press –Iran ISBN: 978-600-364-654-4
3. **I Hmayonnezhad, S Shojaei, S A** Mosavi, P Amirian. Soil and Water Analysis Laboratory Methods
Norouzi Press –Iran ISBN: 978-600-364-910-1
4. **S Shojaei, S A** Mosavi, N Pakbaz. General Soil, Water, Plant Relationship
Norouzi Press –Iran ISBN: 978-600-364-530-1

Selected Conference Presentations

*Denote oral presentation

1. Nasiri, A., Shirokova, V., Zareie, S., & **Shojaei, S.** (2017). Assessment of the status and intensity of water erosion in the river basin Delichai (Iranian territory) using GIS model. *International Multidisciplinary Scientific GeoConference: SGEM*, 17, 89-96.
2. **I Piri, S Shojaei, I** Homayoonnezhad. Evaluation of Long-term Changes in Wastewater Application in Different Depths of Soil. 15th International Conference on Environmental Science and Technology Rhodes, Greece, 31 Aug to 2 Sep 2017 https://cest2017.gnest.org/sites/default/files/presentation_file_list/cest2017_00429_poster_paper.pdf

Teaching Experience

- Lecture, Payame Noor University. (2014-2018)
Course Level: Undergraduate.
Course Titles: Soil and water conservation, Weather and Climatology, Relationships between Livestock & Rangeland, Plant Identification Lab, Watershed, water and soil conservation, Applied Statistics and Probability, Forestry and etc.

International Collaborative Activities

- Creating course syllabus, Lund University (2019-2020)
Course Title: RS & GIS Applied to Changes in the Environment
Course Level: BSc, MSc and PhD

National Collaborative Activities

- Researcher manager, Islamic Azad University, Iran (2018-2019)
Iranian project funded from Islamic Azad University.
Project duties: Assessment the effect of using wastewater for reclamation or destruction of soil

Conference Organization

- Selected Conference Presentations
 1. Scientific and the organizing committee for 3rd International Symposium of Engineering Applications on Civil Engineering and Earth Sciences 2021 (IEACES2021), Karabuk University, Turkey
 2. Member of the local organizing committee and reviewer 1st International Conference on Water Security 2018. 17 - 20 June 2018, Hyatt Regency Toronto, Toronto, Canada
 3. Member of organizing committee for The 2nd International Conference on Computer Science and Application Engineering. October 22 to 24, 2018 in Hohhot, China (<http://www.csaconf.org/2018/OR.aspx>)
 4. Scientific and the local organizing committee and reviewer for 4th International Conference on New findings in Agriculture Science, Natural Resources and the Environment. (Level 1) 17- June- 2018 Tehran (<http://newconf.ir/fa/>)

Journal Review Activities

Journal of Cleaner Production, Geography and Sustainability, Journal of Mountain Science, International Journal of Environmental Analytical Chemistry, Advances in Civil Engineering, Journal of Spatial Information Science, Earth

Sciences Research Journal, Acta Geophysica, Hydrogeology Journal, Arabian Journal of Geosciences, Results in Engineering, Journal of Environment and Water Engineering, Coloration Technology, Environment Development and Sustainability, Egyptian Journal of Basic and Applied Sciences, International journal of Environmental Science and Technology, Spatial Information Research, Sustainable Water Resources Management, Frontiers in Plant Science, Environmental Monitoring and Assessment, Journal of Molecular Liquids, Cogent Engineering

Journal Editor

- Spatial Information Research
- Frontiers in Environmental Science

Additional Information

- Spoken and Written Languages: Farsi (mother tongue), English (fluent), Spanish (beginner)
- A valid driving licence.