

ACADEMIC, RESEARCH & EXECUTIVE CV

Dr. Reza Ghazavi

Professor | Department of Nature Engineering
Faculty of Natural Resources and Earth Sciences, University of Kashan
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1. Personal and Contact Information

Information	Details
First Name	Reza
Last Name	Ghazavi
Academic Rank	Professor
Place of Birth	Isfahan, Iran
Institution	University of Kashan
Specialization	Watershed Science and Engineering – Water Resources Management
Postal Address	University of Kashan, Faculty of Natural Resources and Earth Sciences, Department of Watershed Management
Email	ghazavi@kashanu.ac.ir; rghazavi@yahoo.com
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Scopus Author ID	35317337200
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University Profile	https://faculty.kashanu.ac.ir/ghazavi/fa

2. Education

Degree	Field	Institution	Year
Ph.D.	Watershed Science and Engineering – Water and Soil Conservation	University of Rennes, France	2009 (Sal Hijri 1388)
M.Sc.	Natural Resources Engineering – Watershed Science and Engineering	Tarbiat Modares University, Iran	1997 (Sal Hijri 1376)
B.Sc.	Natural Resources Engineering – Rangeland and Watershed Management	University of Yazd, Iran	1995 (Sal Hijri 1374)

3. Language Skills

Language	Proficiency
Persian	Native
English	Good
French	Good
Arabic	Beginner

4. Academic and Executive Experience

4.1 University Appointments

- Professor, Department of Watershed Management, Faculty of Natural Resources and Earth Sciences, University of Kashan (2020–present).
- Dean, Faculty of Natural Resources and Earth Sciences, University of Kashan (2020–2026).
- Associate Professor, Department of Watershed Management, Faculty of Natural Resources and Earth Sciences, University of Kashan (2013–2020).
- Vice-Dean for Education, Faculty of Natural Resources and Earth Sciences, University of Kashan (2012).
- Director of Student Affairs, University of Kashan (2011–2014).
- Faculty Member, Department of Rangeland and Watershed Management, Faculty of Agriculture and Natural Resources, University of Shiraz (1998–2011).
- Vice-Dean for Student and Cultural Affairs, Faculty of Agriculture and Natural Resources, University of Shiraz (2009–2011).

5. Academic Activities

- Development and teaching of more than 30 course materials at B.Sc., M.Sc., and Ph.D. levels.
- Supervision and advising of M.Sc. theses and Ph.D. dissertations.
- Supervision of undergraduate projects.
- Review of research proposals.
- Implementation of research projects.
- Peer review of domestic and international scientific and research journal manuscripts.

6. Research Expertise and Interests

- Management and utilization of unconventional water resources
- Water and soil conservation
- Water erosion
- Rainwater-harvesting surfaces and runoff collection
- Effects of land-use change and urbanization on runoff and evapotranspiration
- Urban hydrology
- Artificial aquifer recharge, with emphasis on surface-water/groundwater interactions
- Watershed management

7. Teaching Experience

7.1 Undergraduate Courses

- Aerial Photograph Interpretation
- Introduction to Aerial Photographs
- Hydrology
- Watershed Management
- Meteorology and Climatology
- Watershed Engineering Structures
- Water and Soil Conservation
- Principles of Water and Soil Management

7.2 M.Sc. and Ph.D. Courses

- Management and Utilization of Unconventional Water Resources
- Advanced Water and Soil Conservation
- Urban Hydrology
- Advanced Watershed Management
- Flood Control
- Urban Water Resources Management
- Urban Hydrology

8. Research Projects

Project Title	Role	Location	Start	End
Effectiveness Assessment of Watershed and Aquifer Management Operations in the Khavesh Watershed, Delijan County	Principal Investigator	Markazi Province	2020	2021
Flood Management Study of the Matinabad Watershed, Natanz County		Isfahan Province	2023	2025
Executive Studies for Flood Control and Mitigation, Site Selection, and Design of an Earth Dam in the Ab-Shirin Watershed	Principal Investigator	Isfahan Province	2020	2020
Assessment of Pollution Risk in Major Watersheds of Ardabil Province Using the WRASTIC Model and Development of an Operational Pollution-Control Program	Principal Investigator	Ardabil Province	2015	2017
Investigation of the Effects of Polymeric Superabsorbents—Perlite, Zeolite, and Polyacrylamide—on Soil Erosion, Infiltration, and Runoff Generation	Principal Investigator	Kashan	2013	2014
Assessment and Modeling of Quantitative and Qualitative Changes in Groundwater Resources of the Kashan Plain under Different Precipitation Storage Methods	Principal Investigator	Kashan	2011	2014
Comparison of DRASTIC and GODS Models for Assessing Groundwater Pollution Potential: A Case Study of Abarkuh Plain	Principal Investigator	Kashan	2012	2013
Investigation of Flood-Spreading Effects on Soil Physical Properties, Groundwater-Level Fluctuations, and Groundwater Quality in the Haji-Tahereh Area, Darab	Principal Investigator	Fars Province	2000	2013

9. Ph.D. Student Supervision

Student	Dissertation Title
Ali Maafi Raberi	Feasibility Assessment of Urban Runoff Harvesting and Site Selection for Storage Reservoirs
Heidar Ebrahimi	Assessment of the Interactive Effects of Doyraj Dam Construction and Excessive Groundwater Abstraction on the Mousian Plain Aquifer
Sahar Babaei	Effects of Urban Runoff Storage on Groundwater Quality and Quantity
Mehdi Zarei	Effects of Land-Use Changes on Groundwater Resources
Rasoul Imani	Feasibility of Using Urban Runoff for Urban Green-Space Development
Abdolhossein Mohammadi	Assessment of the Effects of Using Urban Wastewater on Water Quality in Lakes and Groundwater Resources
Mohsen Yousefi	Assessment of the Effects of Climate Change on Precipitation, Runoff, and Peak Discharge Patterns in Arid and Semi-Arid Regions

Foad Naserabadi	Assessment of the Effects of Management Activities on Groundwater Resources
Behnam Farid	Risk Analysis of Pollution and Changes in Quantity and Quality of the Aras River under Climate and Land-Use Change
Zohreh Zohairi	Assessment of the Effects of Climate Change on Watershed Runoff
Hossein Afshari	Effects of Watershed Management Activities on Water Resources with Emphasis on Passive Defense
Danial Sayad	Assessment of Flood Potential in Upstream Basins and Risk Management Analysis of Urban-Basin Infrastructure: A Case Study of Kashan City
Saeed Alizadeh	Prediction of Land-Subsidence Risk Using a Groundwater-Resilience Approach in Urban Areas: A Case Study of the Marvdasht Plain
Mohammad Rahmati	Assessment of Economic Damage Caused by Land-Use Change to Water- and Sediment-Related Ecosystem Services
Babak Ghaderi	Development of a New Management Strategy for Identifying Optimal Sites for Watershed-Management Structures Using Hierarchical Analysis and Machine-Learning Approaches

10. M.Sc. Theses

Student	Thesis Title
Hasan Zabarjadi	Investigation of Factors Affecting Gully-Erosion Expansion: A Case Study of the Qahvard-Hasan Zabarjadi Area
Abdolghafar Maleki	Simulation of Daily and Monthly Discharge Using the SWAT Model: A Case Study of the Rowzeh-Chay Watershed
Omid Moradi	Effects of Climate Change on Water and Soil Resources: A Case Study of Kurdistan Province
Arash Fazeli	Assessment of the Effects of Land-Use Change on Surface Runoff Using GIS: A Case Study of the Beheshtabad Sub-Basin
Mehdi Alipour	Determination of Flood-Generation Potential in Watersheds Using the HEC-HMS Model: A Case Study of the Beheshtabad Basin
Issa Sadeghi	Site Selection of Areas Suitable for Rainfall-Runoff Storage Using GIS
Mitra Mohammadi	Assessment of the Effects of Rainfall Characteristics on Urban Runoff Quality
Zahra Khadem al-Rasoul	Zoning and Assessment of Tourism Potential in the Desert Areas of Fars Province
Leila Fouadian	Determination of an Appropriate Method for Estimating Runoff in Urban Basins Using GIS
Abbas Ghaffari	Assessment of Climate-Change Effects on the Beheshtabad Watershed Using SWAT
Majid Ramezani	Assessment of Groundwater Pollution Potential in Rafsanjan County Using DRASTIC, GODS, and Fuzzy Logic Models
Farzaneh Fadaei	Assessment of the Effect of Irrigation Water on the Performance of Superabsorbents
Shahrzad Rahimi	Assessment of Groundwater Vulnerability for Identifying Suitable Groundwater-Recharge Sites in Urban Watersheds

11. Selected Publications

Authors	Title	Journal	Publication Date
Saeed Alizadeh, Reza Ghazavi, Ebrahim Omidvar	Prediction of Watershed Resilience in the Marvdasht Plain Using a Hybrid WoE-Based Framework	Watershed Research	22/06/2026
Babak Ghaderi Vangah, Reza Ghazavi, Siamak Dakhani, Omid Asadi Nelivan	Selection of the Optimal Sites for Watershed-Management Structures in Gilan Province Using the Maximum Entropy Model	Rainwater Harvesting Systems	20/05/2026

Babak Ghaderi Vangah, Reza Ghazavi, Siamak Dakhani,omid Asadi	Identification of the Most Suitable Sites for Watershed-Management Structures in Humid and Semi-Humid Regions Using the Analytic Hierarchy Process (AHP)	Hydrogeomorphology	12/04/2026
Foad Naserabadi, Reza Ghazavi, Mehdi Zakeri Nia	Assessment of the Effects of Water-Supply Management Programs on Water Balance Using MODFLOW and WEAP Models	Irrigation and Drainage	09/02/2026
Zohreh Zohairi Hashemabadi, Reza Ghazavi, Ebrahim Omidvar	Evaluating the Hydrologic Control of Check Dam Systems under Combined Climate and Land-Use Change Scenarios in a Semi-arid Watershed, Iran	ECOPERSIA	18/11/2025
Roya Gahramani, Reza Ghazavi, Morad Darabi, Roya Ahmadi	Strategic Analysis of the Farmeshgan Watershed Using an Integrated AHP-SWOT Approach for Sustainable Natural-Resource Management	Journal of Watershed Extension and Development	13/10/2025
محمد رحمتی, Siamak Dakhani, Reza Ghazavi, Alireza Daneshi, Hamid Nouri	Assessment of the Effects of Land-Use Change on Soil Retention Using the InVEST Model	Integrated Watershed Management	10/09/2025
Adel Soltani, Reza Ghazavi, Siamak Dakhani	Analysis of Participation Levels Based on the Demographic Characteristics of the Benchaleh Watershed, Kermanshah Province	Watershed Research	21/06/2025
Zahra Farahnakian, Reza Ghazavi	Selection of an Appropriate Method for Rainfall Hyetograph Extraction in Arid Regions Using Hourly Rainfall Data under Climate Change	Ecohydrology	22/09/2024
رویا احمدی, Hoda Ghasemiah, Reza Ghazavi	Assessment of Meteorological and Hydrological Drought Conditions: A Case Study of Sub-Basins of the Central Plateau Basin	Hydrogeomorphology	16/09/2024
Foad Naserabadi, Reza Ghazavi, Mehdi Zakeri Nia	Assessment of the Effects of Climate Change on the Quantitative Status of Groundwater in the Dehgolan Aquifer Using MODFLOW	Journal of Watershed Management	14/09/2024
Masoud Motaghian, Reza Ghazavi, Seyed Hassan Alavi Nia	Development of the Best Management Plan for Integrated Management of the Doabi Watershed in Tehran Province Using SWOT and QSPM Matrices	Hydrogeomorphology	17/04/2024
Adel Soltani, Reza Ghazavi, Siamak Dakhani	Investigation of the Effects of Legal and Participatory Norms and Beliefs on the Participation Index and Watershed Residents' Behavior: A Case Study of the Benchaleh Watershed, Ravansar County	مدیریت جامع حوزه های آبخیز	24/03/2024
Seyed Mehdi Sadat Rasoul, Ebrahim Omidvar, Reza Ghazavi	Comparison of Rainfall Interception by Tree Species in Urban Green Space of the Hashtgerd Watershed	Rangeland and Watershed Management Journal	19/02/2024
Seyed Meysam Davoudi, Siamak Dakhani, Reza Ghazavi	Effects of Watershed-Management Projects on Global Development Indicators	Iranian Watershed Management	06/02/2024
Behnam Faridigloo, Reza Ghazavi	Effects of Land Use Changes and Human Activities on the Temporal and Spatial Variations of Water Quality in the Aras Border River	Desert Ecosystem Engineering	11/10/2023
Reza Ghazavi, Ebrahim Omidvar	Assessment of the Effects of Watershed Check-Dam Construction on Peak Discharge and Flood Volume	Technical Strategies in Water Systems	09/09/2023
Yazdan Yarahmadi, Reza Ghazavi, Hoda Ghasemiah	Assessment of the Performance of Surface-Drainage Networks and Nodes for Urban Runoff Control Using SWMM in Western District 6 of Tehran	Watershed Research	22/06/2023
Masoud Motaghian, Seyed Hassan Alavi Nia, Reza Ghazavi	Assessment of Watershed-Management Measures in Altering Watershed Hydrological Behavior in Arid and Semi-Arid Regions	مطالعات جغرافیائی مناطق خشک	12/06/2023
Reza Ghazavi, Zahra Farahnakian, Siamak Dakhani, Ebrahim Omidvar	Assessment of the Effects of Climate Change on Temperature, Rainfall, and Intensity–Duration–Frequency Curves in Arid Regions: A Case Study of the Kashan Watershed	مدلسازی و مدیریت آب و خاک	26/04/2023
Reza Ghazavi, Hoda Ghasemiah, Ebrahim Omidvar	Improvement of Intensity–Duration–Frequency Curves Using Genetic Algorithms and Particle Swarm Optimization in the Lake Urmia Basin	Desert Ecosystem Engineering	20/03/2023
Seyed Meysam Davoudi, Siamak Dakhani, Reza Ghazavi	Assessment of the Effects of Watershed-Management Structures in Arid and Semi-Arid Areas of Isfahan Province from Economic, Social, and Natural Perspectives	علوم و فنون آبخاکی	11/03/2023
Yazdan Yarahmadi, Reza Ghazavi, Hoda Ghasemiah	Assessment of Urban Runoff Collection Network Performance in Semi-Arid Regions under Climate Change	Ecohydrology	22/12/2022

Ebrahim Aghabigi, Seyed Abbas Hosseini, Saman Javadi Pirbazari, Reza Ghazavi	Investigation of the Hydraulic Connection between the Kashan Aquifer and the Adjacent Salt Lake and Identification of the Source of Salinization in the Aquifer	Iranian Water Research Journal	01/11/2022
Ebrahim Aghabigi, Seyed Abbas Hosseini, سامان جوادى, Reza Ghazavi	Field studies, ion analysis, and modeling of Kashan plain aquifer to predict the source of salinization	Environ Monit Assess	24/10/2022
Danial Sayad, Reza Ghazavi, Ebrahim Omidvar	Development of Appropriate Management Strategies for Urban Infrastructure against Floods from a Passive-Defense Perspective Using SWOT and QSPM: A Case Study of Kashan City	Modeling and soil water Management	11/04/2022
Yazdan Yarahmadi, Reza Ghazavi, Hoda Ghasemiah	Assessment of SWMM Performance for Identifying Flood-Prone Nodes in the Drainage Network under Climate Change: A Case Study of Eastern District 6 of Tehran Municipality	Journal of Meteorology and Atmospheric Sciences	19/03/2022
Rasoul Imani, Reza Ghazavi, Abazer Esmaeili Oori	Trend Analysis, Modeling, and Forecasting of Monthly Rainfall Using Stochastic Time-Series Models: A Case Study of Ardabil Synoptic Station	Quarterly Journal of Geographical Studies of Arid Regions	01/12/2021
Sahar Babaei Hesaar, Reza Ghazavi, Mehdi Erfanian	Quantifying the impact of urban runoff injection on groundwater enhancement in a semi-arid environment using SWMM and MOFLOW Model	GLOBAL NEST J	26/11/2021
Danial Sayad, Reza Ghazavi, Ebrahim Omidvar	Preparation and Analysis of a Flood-Hazard Map Using the HEC-RAS Hydraulic Model and RAS Mapper: A Case Study of the Sook-Cham River, Kashan	Geography and Environmental Hazards	23/10/2021
Zahra Nasarian Asl, Reza Ghazavi, Danial Sayad	Development and Prioritization of Management Strategies for Sustainable Ecotourism in the Venai Watershed Using SWOT and QSPM	Geography and Environmental Sustainability	02/10/2021
Yazdan Yarahmadi, Reza Ghazavi, Hoda Ghasemiah	Extraction of Intensity–Duration–Frequency (IDF) Curves and Analysis of Rainfall Trends under Climate Change: A Case Study of Mehrabad Synoptic Station	Dryland	22/09/2021
Reza Ghazavi, عبدالحسين محمدى, Ruhollah Mirzaei Mohammadabadi	The Effects of Municipal Treated Wastewater and Sludge on Some Vegetative Characteristics of Nitraria Schoberi	Journal of Applied Research in Water and Wastewater (JARWW)	14/09/2021
Fatemeh Karimi, Reza Ghazavi, Ebrahim Omidvar	Assessment of the Effects of Gypsum Particle Amount and Size on the Amendment of Saline-Sodic Soils	Local Research of Erosion	11/08/2021
Hossein Afshari, Reza Ghazavi, Siamak Dakhani	A Framework for Identifying Factors Influencing Crisis Management with Emphasis on Runoff	Journal of Water and Soil Sciences	10/08/2021
Danial Sayad, Reza Ghazavi, Ebrahim Omidvar	Assessment of SWAT Performance for Estimating Daily Discharge in Ungauged Basins Using a Regionalization Approach in Arid Regions	Hydrogeomorphology	28/02/2021
Behnam Faridgigloo, Reza Ghazavi, Siamak Dakhani	Assessment of the Effect of Climate Change on the Discharge of the Aras River: A Case Study of Ardabil Province	Iranian Water Resources Research	20/12/2020
Reza Ghazavi, Rasoul Imani, اباذر اسمعيلى اورى	Development and application of a new index-overlay method to assess urban runoff vulnerability to contamination (evaluation in the Ardabil city, Iran	ARAB J GEOSCI	06/10/2020
Zohreh Zohairi Hashemabadi, Reza Ghazavi, Ebrahim Omidvar, Ali Akbar Davoodi Rad	Comparison of LARS-WG and SDSM Downscaling Models for Predicting Temperature and Precipitation Changes under RCP Scenarios	Quarterly Journal of Geographical Studies of Arid Regions	21/09/2020
Seyed Meysam Davoudi, Reza Ghazavi	Determination of Appropriate Management Strategies for Water Resources in the Urban Natanz Watershed Using the SWOT Matrix	Journal of Hydrogeomorphology	30/05/2020
Foad Naserabadi, Reza Ghazavi, مهدى زاکرى نيا	Hydrological Modeling of the Telvar River Watershed under Climate Change	Iranian Water Research	25/04/2020
Zohreh Ebrahimi Khosravi, Abbasali Vali, Reza Ghazavi, Mohammad Khosraveshi	Assessment of Changes in Groundwater Level and Water Storage Volume in the Western Aquifers of Gavkhouni Wetland during 1992–2013	Iranian Water Research	13/02/2020
Reza Ghazavi, Rasoul Imani, اباذر اسمعيلى عورى	Assessment of the Performance of Different Data-Stationarization Methods Using ARIMA-Family Models	Soil and water	14/01/2020
Mohsen Yousefi Malekshah, Reza Ghazavi, Seyed Javad Sadatinejad	Evaluating the Effect of Climate Changes on Runoff and Maximum Flood Discharge in the Dry Area (Case Study: Tehran-Karaj Basin)	ECOPERSIA	21/12/2019
عبدالحسين محمدى, Reza Ghazavi, Ruhollah Mirzaei	Assessment of Vegetation-Cover Change Patterns Using MODIS Imagery and Their Relationship with Rainfall	Rangeland and Watershed	08/12/2019

Mohammadabadi, Hamidreza Naseri			
Reza Ghazavi, Ebrahim Omidvar, Hadiseh Jeyhooni Naeini	Assessment of the Effect of Zeolite on Soil Water-Retention Curve Model Coefficients in Sandy and Loamy Textures	Water and Soil Sciences	06/11/2019
Reza Ghazavi, Sahar Babaei Hesaar, مهدی عرفانیان	Prioritization of Urban Sub-Basins Susceptible to Flooding Using PCA as a New Weighting Technique	Journal of Natural Environmental Hazards	09/07/2019
Mohsen Yousefi Malekshah, Reza Ghazavi, Seyed Javad Sadatinejad	Assessment of the Effects of Future Climate Change on Temperature, Rainfall, and Intensity–Duration–Frequency Curves in Arid Regions: A Case Study of the Tehran–Karaj Basin	Ecohydrology	27/06/2019
Somayeh Yousefzadeh, Reza Ghazavi, Siamak Dakhani	Assessment of the Effects of Meteorological Droughts on the Quantity and Persistence of Surface Runoff in Arid Regions: A Case Study of Kerman Province	Quarterly Journal of Geographical Studies of Arid Regions	19/06/2019
Reza Ghazavi, Rasoul Imani, Ruhollah Mirzaei Mohammadabadi, Babak Khayyat Rostami	Assessing the Efficiency of WRATIC Method in Determining the Vulnerability of Surface Water Resources in Semi-Arid Region Using the NSFQI	Int. J. Hydrology Science and Technology	13/06/2019
مسعود سمیعی, Reza Ghazavi, Abbasali Vali, Mohammad Pakparvar	Evaluation of the effect of land use change on runoff using supervised classified satellite data	GLOBAL NEST J	16/03/2019
Arash Fazeli Farsani, Reza Ghazavi	Assessment of the Effect of Land-Use Change on Surface Runoff Potential Using the SWAT Model	Soil and water Research	13/02/2019
Reza Ghazavi, Abbas Ghaffari Gosheh, Siamak Dakhani	Assessment of the Effects of Future Climate Change on Suspended-Sediment Yield in Watersheds: A Case Study of the Shahrekord Watershed	Journal of Watershed Management	03/12/2018
Behnam Faridgigloo, Reza Ghazavi	Assessment of the Role of Physicochemical Properties of Gully Soils and Environmental Factors in the Upstream Basin in Gully-Erosion Expansion	Soil and Water	12/11/2018
مسعود سمیعی, Reza Ghazavi, محمد پاکپور, Abbasali Vali	Mapping spatial variability of soil salinity in a coastal area located in an arid environment using geostatistical and correlation methods based on the satellite data	Desert	11/10/2018
Reza Ghazavi, Meysam Nadimi Shahraki, Ebrahim Omidvar, Rasoul Imani	Assessment of the Effects of Future Climate Change on Changes in the Flow of the Heruchay River in Ardabil Using SWAT and LARS-WG	Hydrogeomorphology	11/09/2018
Reza Ghazavi, Heidar Ebrahimi	Estimation of Artificial Groundwater Recharge by Flood Water Spreading System in an Arid Region Using Inverse Modeling and SCS Method; A case Study of Mosian Plain	Ecopersia	11/08/2018
Issa Sadeghi Soodjani, Reza Ghazavi	Site Selection for Rainfall Storage Using GIS and the Analytic Hierarchy Process (AHP)	Geography and Environmental Planning	11/08/2018
Reza Ghazavi, Ebrahim Omidvar, Farzaneh Fadaei	Effects of Perlite, Zeolite, and A200 Superabsorbents on Soil Surface Erosion and Sediment Yield	Iranian Water Research	11/07/2018
Reza Ghazavi, Sahar Babaei Hesaar, Mehdi Erfanian	Recharge Wells Site Selection for Artificial Groundwater Recharge in an Urban Area Using Fuzzy Logic Technique	WATER RESOUR MANAG	11/06/2018
Ali Maafi Raberi, Reza Ghazavi	Urban Flood Estimation and Evaluation of the Performance of an Urban Drainage System in a Semi-Arid Urban Area Using SWMM	WATER ENVIRON RES	11/06/2018
Reza Ghazavi	Investigation of the Relationship between Rainfall Characteristics and Urban Runoff Quality in Arid Regions: A Case Study of the Maqsoud-Beyg Urban Watershed, Tehran	مطالعات جغرافیایی مناطق خشک	11/05/2018
Reza Ghazavi, Mina Arast	Effects of Irrigation with Treated Wastewater on Selected Physical and Chemical Characteristics of Forage Maize	فصلنامه علوم و تکنولوژی محیط زیست	11/05/2018
Sahar Babaei Hesaar, Reza Ghazavi, Mehdi Erfanian	Urban flood simulation and prioritization of critical urban sub-catchments using SWMM model and PROMETHEE II approach	PHYS CHEM EARTH	11/02/2018
Reza Ghazavi, Heidar Ebrahimi	Hydrological Impacts of Large Reservoir Dam and Land Subsidence on Downstream Groundwater Resources using Mathematical Modeling	Desert Ecosystem Engineering Journal	11/01/2018

Reza Ghazavi, Ali Albu Ali	Impacts of Climate Variation and Groundwater Declination on Groundwater Quality in an Arid Environment	Biological Forum – An International Journal	11/12/2017
Reza Ghazavi, Majid Ramezani Sarbandi	Assessment of the Effects of Changes in Rainfall and Groundwater Abstraction on the Quantity and Quality of Aquifer Water: A Case Study of the Rafsanjan Plain	Hydrogeomorphology	11/11/2017
Reza Ghazavi, Seyed Mohammad Mehdi Mousavian	Assessment of Climate Anomalies Using the SDSM Downscaling Model in Tabas County	Conventional Natural Resources	11/09/2017
Reza Ghazavi, Siamak Dakhani, Mostafa Mortazavi, Majid Ramezani Sarbandi	Assessment of Groundwater Pollution Potential Using DRASTIC and GOD Models in a GIS Environment: A Case Study of the Rafsanjan Plain	Hydrogeomorphology	11/06/2017
Rasoul Imani, Reza Ghazavi	Assessment of the Effects of Urban Expansion on the Quantity and Quality of Water in the Balkhlu-Chay River, Ardabil	Urban-Regional Geography and Planning	11/06/2017
Reza Ghazavi, Ali Maafi Raberi, محسن احدنژاد	Effects of Rainfall Intensity - Duration - Frequency Curves Reformation on Urban Flood Characteristics in Semiarid Environment	Ecopersia	11/06/2017
Zohreh Ebrahimi Khosravi, Abbasali Vali, Mohammad Khosraveshi, Reza Ghazavi	Assessment of the Role of Desiccated Areas of Gavkhouni Wetland in Dust Generation Using Landsat Imagery and Storm Data: A Case Study of Isfahan City	Iranian Journal of Rangeland and Desert Research	11/06/2017
مسعود سمیعی, Reza Ghazavi, Mojtaba Pakparvar, Abbasali Vali	Assessment of the Effects of Climate Change on Changes in Lake Maharloo Water Level Using Satellite-Image Processing	Quarterly Journal of Remote Sensing and GIS in Natural Resources	11/06/2017
Reza Ghazavi, Seyed Javad Sadatinejad	Mitigation of the groundwater stresses via surface water harvesting in an arid environment	Journal of Biodiversity and Environmental Sciences	11/06/2017
Ali Maafi Raberi, Reza Ghazavi, Mohsen Ahadnejad Reveshty	Sensitivity analysis of SWMM model parameters for urban runoff estimation in semi-arid area	Journal of Biodiversity and Environmental Sciences	11/05/2017
مسعود سمیعی, Reza Ghazavi, Mojtaba Pakparvar, Abbasali Vali	Assessment of the Effects of Climate Change on Changes in Lake Maharloo Water Level Using Satellite-Image Processing	Quarterly Journal of Remote Sensing and GIS in Natural Resources	11/04/2017
Abbasali Vali, Zohreh Ebrahimi Khosravi, Mohammad Khosraveshi, Reza Ghazavi	Determination of the Relative Importance of Multiple Hydroclimatic Parameters in Gavkhouni Wetland Desiccation Using Artificial Neural Networks and Remote-Sensing Data	Journal of Desert Ecosystem Engineering	11/12/2016
مهدی زارعی, Reza Ghazavi, Abbasali Vali, خداداد عبدالحی	Impact of Land use Change on Precipitation and Temperature Trends in an Arid Environments	Biological Forum – An International Journal	11/12/2016
مهدی زارعی, Reza Ghazavi, Abbasali Vali, خدایار عبدالحی	Estimating Groundwater Recharge, Evapotranspiration and Surface Runoff using Land-use data: A Case Study in Northeast Iran	Biological Forum – An International Journal	11/10/2016
Reza Ghazavi, Heidar Ebrahimi	Impacts of land-use change on groundwater resources using remote sensing and numerical modeling	Journal of Biodiversity and Environmental Sciences (JBES)	11/10/2016
Seyed Hadi Sadeghi, Ali Albu Ali, Reza Ghazavi	Assessment of Temporal and Spatial Trends in Water-Quality Parameters of the Kashan Plain Using Geostatistical Methods	Soil and Water	11/08/2016
Reza Ghazavi, Mina Arast	Assessment of the Effects of Urban Wastewater Irrigation on the Accumulation of Selected Chemical Elements and Ecological Characteristics of Eucalyptus camaldulensis Dehnh.	نشریه "حفاظت زیست بوم گیاهان"	11/08/2016
زهرا خادمه الرسول, Reza Ghazavi, سیدحجت موسوی	Feasibility of Sustainable Desert Ecotourism Development in the Shiraz Desert	Range and Desert Researches	11/06/2016
Heidar Ebrahimi, Reza Ghazavi, Haji Karimi	Estimation of Groundwater Recharge from the Rainfall and Irrigation in an Arid Environment Using Inverse Modeling Approach and RS	WATER RESOURCES MANAGEMENT	11/06/2016
Ali Albu Ali, Reza Ghazavi, Seyed Javad Sadatinejad	Assessment of Drought Effects on Groundwater Resources Using the SPI Index	Desert Ecosystem Engineering	11/06/2016
Abbasali Vali, Zohreh Ebrahimi Khosravi, محمدخسروشاهی, Reza Ghazavi	Land use change detection using GIS and RS techniques casestudy: The South east of Zayanderood Basin, Esfahan, Iran	Journal of Biodiversity and Environmental Sciences (JBES)	11/06/2016
Sahar Babaie Hesaar, Reza Ghazavi	Comparison of Time-Series and Neural-Network Models with Emission-Scenario Results for Rainfall Prediction	Journal of Water and Soil	11/10/2015

Mojtaba Soleimani Sardo, Fatemeh Rostaee Sadrabadi, Abolfazl Ranjbar Fardouei, Reza Ghazavi, Abbasali Vali	Assessment and Mapping of Land Degradation Sensitivity to Desertification: A Case Study of the Yazd-Ardakan Plain	Soil and water Research	12/09/2015
Reza Ghazavi	The application effects of natural zeolite on soil runoff, soil drainage and some chemical soil properties in arid land area	International Journal of Innovation and Applied Studies	11/09/2015
مید علی وصالی, Reza Ghazavi, Mohammad Hossein Rostami, Esmail Heidari, Reza Bagheri	Selection of the Best Rainfall Interpolation Method for Iran	International Bulletin of Water Resources & Development	11/09/2015
Reza Ghazavi, یعقوب یزدانی مقدم, Abbasali Vali, سیدجواد ساداتی نژاد	Site Selection of Suitable Areas for Rainfall Harvesting Using GIS: A Case Study of the Kashan Plain	Geography and Environmental Planning	06/07/2015
Arash Fazeli Farsani, Reza Ghazavi, Mohammad Reza Farzaneh	Assessment of Land-Use Classification Algorithms Using Image-Fusion Techniques: A Case Study of the Beheshtabad Sub-Basin	Quarterly Journal of Remote Sensing and GIS in Natural Resources	11/06/2015
Reza Ghazavi, Zohreh Ebrahimi Khosravi	Assessing groundwater vulnerability to contamination in an arid environment using DRASTIC and GOD models	INT J ENVIRON SCI TE	11/04/2015
Mohammad Mirzavand, Reza Ghazavi	A Stochastic Modelling Technique for Groundwater Level Forecasting in an Arid Environment Using Time Series Methods	WATER RESOUR MANAG	11/03/2015
مقدم یزدانی مقدم, Abbasali Vali, Reza Ghazavi	Assessment of Geostatistical Methods for Groundwater-Quality Zoning in the Kashan Plain	Geography and Environmental Planning	06/12/2014
Mohammad Mirzavand, Reza Ghazavi, Seyed Javad Sadatinejad, Hoda Ghasemiah, Abbasali Vali	Assessment of the Kashan Plain Aquifer Using Electrical Resistivity with a Schlumberger Array	Desert Ecosystem Eng.	11/06/2014
Reza Ghazavi	Flood zone investigation and soil erosion potential mapping in Kashan watershed using GIS	Journal of Middle East Applied Science and Technology	11/05/2014
Reza Ghazavi	Identification and classification of suitable water recharge/harvesting site in an arid environment	Journal of Middle East Applied Science and Technology	11/05/2014
Mohammad Reza Shekari, سیدجواد ساداتی نژاد, Abbasali Vali, Hoda Ghasemiah, Reza Ghazavi	Application of Two Artificial Neural-Network Methods, MLP and RBF, for Estimating Wind-Borne Sediment: A Case Study of the Kersia Plain, Darab	Environmental Erosion Research	11/03/2014
Reza Ghazavi, Abbasali Vali	The Effect of Planted Saltbush (Atriplex lentiformis) on Edaphic Factors in Grazed and Ungrazed Area	Ecopersia	10/06/2013
Reza Ghazavi, Abbasali Vali, Mohammad Najafi Qeiri	Differences in Soil Properties and Vegetation Cover in an Arid Environment Revegetated with Atriplex lentiformis: A Case Study	Arid Land Research and Management,	19/09/2012
Reza Ghazavi, Abbasali Vali, Yaser Maghami, Zhaleh Abdi, Siamak Sharafi	Comparison of EPM, MPSIAC, and PSIAC Models for Estimating Erosion and Sediment Using GIS	Geography and Development	10/08/2012
Reza Ghazavi, Abbasali Vali, سعید اسلامیان	Impact of Flood Spreading on Groundwater Level Variation and Groundwater Quality in an Arid Environment	Water Resources Management	01/02/2012
Z.Thomas, Reza Ghazavi, P. Merot, A. Granier	Modelling and observation of hedgerow transpiration effect on water balance components at the hillslope scale in Brittany	Hydrological Processes	16/01/2012
Abbasali Vali, Mohammad Hossein Ramsh, Abdollah Seif, Reza Ghazavi	Comparison of Artificial Neural-Network and Regression Models for Predicting Suspended-Sediment Load: A Case Study of the Samandegan Watershed	Geography and Environmental Planning	11/01/2012
Reza Ghazavi, Abbasali Vali, Majid Mohammad Esmaeili	Assessment of the Effects of Check-Dam Construction on Channel Morphology and Sediment Deposition: A Case Study of the Abjavan Watershed, Fars	Iranian Water Research	05/01/2012
Reza Ghazavi, Abbasali Vali, Reza Ghasemi Fasaee, Seyed Saeed Eslamian	Soil physicochemical properties and vegetation pattern in an arid environment affected by a salt diaper	AFRICAN JOURNAL OF AGRICULTURAL RESEARCH	12/11/2011
Yaser Maghami, Reza Ghazavi, Abbasali Vali, Siamak Sharafi	Assessment of Different Interpolation Methods for Water-Quality Zoning Using GIS: A Case Study of Abadeh County	Geography and Environmental Planning	06/08/2011

Reza Ghazavi, Abbasali Vali, مجید محمد اسماعیلی	Assessment of the Effects of Hedgerow Planting on Selected Soil Hydraulic Properties	Iranian Water Research	06/07/2011
Reza Ghazavi, Abbasali Vali, سعید اسلامیان	Impact of Flood Spreading on Infiltration Rate and Soil Properties in an Arid Environment	Water Resources Management	26/01/2010
Reza Ghazavi, زهرا توماس, Y. Hamon, J. C. Marie, M. Corson, P. Merot	Hedgerow impacts on soil-water transfer due to rainfall interception and root-water uptake	Hydrological Processes	17/07/2008
سیدعلی وصالی, Abbasali Vali, Reza Ghazavi, Masoud Nayeb Abbasi, Mahboobeh Behzadi	Assessment of Desertification Status in Bahabad County from the Perspective of Water and Irrigation Criteria	Journal of Forest and Rangeland	11/01/1970
Reza Ghazavi, Sahar Babaei Hesaar	Assessment of the Consistency of Emission Scenarios in Predicting Minimum and Maximum Temperatures: A Case Study of Synoptic Stations in the Lake Urmia Basin	Quarterly Journal of Geographical Research	0000-00-11
Rasoul Imani, Reza Ghazavi	Assessment of the Effects of Urban Expansion on the Quantity and Quality of Water in the Balkhlu-Chay River, Ardabil	Quarterly Journal of Urban-Regional Geography and Planning	0000-00-11
Reza Ghazavi, Abbas Ghaffari Gosheh, Siamak Dakhani	Assessment of the Effects of Future Climate Change on Suspended-Sediment Yield in Watersheds: A Case Study of the Shahrekord Watershed	Journal of Watershed Management	0000-00-11

12. Additional Selected Publications

Reference	Title	Journal / Details
Vali, A. B.; Ebrahimi, Z.; Khosroshhi, M.; Ghazavi, R. (2016).	Land use change detection using GIS and RS techniques: Case study of the southeast of Zayanderood Basin, Esfahan, Iran.	Journal of Biodiversity and Environmental Sciences (JBES).
Ebrahimi, H.; Ghazavi, R.; Kahimi, H. (2016).	Estimation of Groundwater Recharge from the Rainfall and Irrigation in an Arid Environment Using Inverse Modeling Approach and RS.	Water Resources Management.
Ghazavi, R. (2015).	The application effects of natural zeolite on soil runoff, soil drainage and some chemical soil properties in arid land area.	International Journal of Innovation and Applied Studies.
Ghazavi, R. (2014).	Flood zone investigation and soil erosion potential mapping in Kashan watershed using GIS.	Journal of Middle East Applied Science and Technology.
Ebrahimi, Z.; Ghazavi, R. (2015).	Assessing groundwater vulnerability to contamination in an arid environment using DRASTIC and GOD models.	International Journal of Environmental Science and Technology. DOI: 10.1007/s.13762-015-0813-2
Ghazavi, R. (2014).	Identification and classification of suitable water recharging/harvesting sites in an arid environment using GIS.	Journal of Middle East Applied Science and Technology.
Mirzavand, M.; Ghazavi, R. (2014).	A Stochastic Modelling Technique for Groundwater Level Forecasting in an Arid Environment Using Time Series Methods.	Water Resources Management. DOI: 10.1007/s11269-014-0875-9
Zebarjadi, H.; Ghazavi, R. (2014).	The role of land use, lithological units and slope in gully erosion.	Journal of Middle East Applied Science and Technology, 11(3), 289–295.
Fazeli Farsani, A.; Farzaneh, M. R.; Ghazavi, R.; Fazeli Farsani, I. (2014).	Statistical downscaling of daily mean temperature in Shahrekord Station, Iran: An assessment of climate change impacts in a semiarid region.	Journal of Middle East Applied Science and Technology, 23(2), 124–129.
Ghazavi, R.; Vali, A. B. (2013).	The effect of planted saltbush (<i>Atriplex lentiformis</i>) on edaphic factors in grazed and ungrazed area.	International Journal of Natural Resources and Marine Sciences, 2, 113–122.
Ghazavi, R.; Vali, A. B.; Eslamian, S. (2012).	Impact of flood spreading on infiltration rate and soil properties.	Water Resources Management, 1651–1663.
Ghazavi, R.; Vali, A. B. (2012).	Changes in soil properties and vegetation cover in an arid environment re-vegetated with <i>Atriplex lentiformis</i> .	Journal of Arid Land Research, 26, 355–365.

Thomas, Z.; Ghazavi, R.; Merot, P.; Granier, A. (2012).	Modelling and observation of hedgerow transpiration effect on water balance components at the hillslope scale in Brittany.	Hydrological Processes, 26, 4001–4014.
Ghazavi, R.; Vali, A. B.; Ghasemi, R.; Eslamian, S. (2011).	Soil physicochemical properties and vegetation pattern in an arid environment affected by a diapiric salt dome.	African Journal of Agricultural Research, 6(26), 5761–5768.
Ghazavi, R.; Thomas, Z.; Hamon, Y.; Merot, P. (2011).	Soil water movement under a bottomland hedgerow during contrasting meteorological conditions.	Hydrological Processes, 25, 1431–1442.
Ghazavi, R.; Vali, A. B.; Eslamian, S. (2010).	Impact of flood spreading on infiltration rate and soil properties in an arid environment.	Water Resources Management, 24(11), 2781–2793.
Ghazavi, R.; Thomas, Z.; Hamon, Y.; Marie, J. C.; Corson, M.; Merot, P. (2008).	Hedgerow impacts on soil-water transfer due to rainfall interception and root-water uptake.	Hydrological Processes, 22(24), 4723–4735.

13. Major Conference Papers and Presentations

- Effect of data classification on the analysis of long-term trends in discharge and sediment.
- Introduction of the WLTR index for assessing surface-runoff vulnerability in urban watersheds.
- Assessment of drainage-water quality from saline soils amended with gypsum.
- Calibration and validation of runoff-estimation methods.
- Runoff estimation using empirical methods.
- Prioritization of watersheds for watershed-management interventions.
- Assessment of surface-water pollution sensitivity using WRASTIC.
- Groundwater pollution mitigation management.
- Application of unconventional water resources in green-space development.
- Use of domestic runoff for green-space development.
- Assessment of gully-erosion susceptibility.
- Wind-flow and aerodynamic studies of barchan dunes.
- Ecotourism potential assessment.
- Passive defense of qanats.
- Climate-change studies.
- Wind-erosion studies.
- Water and soil modeling.

14. International Conference Papers and Presentations

- Reza Ghazavi, Narges Seghazadeh.2016. The Role of Natural Resources in Water Resources Management. International Conference on Agriculture, Environment and Natural Resources in the third millennium.
- Reza Ghazavi, Narges Soghozadeh, Omid Asadi Nilianan.2016. Introduction of Watershed Management for Watersheds. Eleventh National Conference on Watershed Management in Iran. Pp.8.
- Reza Ghazavi, Narges Seghazadeh, Omid Asadi Nilian.2016. Estimation of discharge using experimental methods. Eleventh National Conference on Watershed Management in Iran.p.p. 7.
- Reza Ghazavi, Masoud Samii. 2016. Calibration and Validation of Experimental Methods for Estimating Runoff in a Watershed (Case Study: Cam Fars Province). p.p. 9.
- Rasool Imani, Reza Ghazavi, Roohollah Mirzaei , Aref Anvar.2016. Estimation of the sensitivity of surface water pollution

- using the WRASTIC index (Case study: Givi Dam. Ardebil). First International Conference on Water, Environment and Sustainable Development. P.p.10.
- Rasoul Imani , Reza Ghazavi , Roohollah Mirzaii , Aref Anvar. 2016. Estimation of Surface Water Pollution Sensitivity Using USGS Index (Case Study: Givi Dam Dam Basin, Ardebil). . The 2nd International Congress on Land, Space and Clean Energy, focusing on natural resource management, agriculture and sustainable development. Pages 14.
- Abbas Ghaffari Corner, Reza Ghazavi, Javad Ghaffari.2015. Investigation of the Climate Indicators in Climate Change Conditions Using the LARS-WG Model (Case Study: Shahrekord Plain Basin). International Conference on Agriculture, Environment and Tourism. Pages 12.
 - Rasoul Imani, Ali Albaali , Reza Ghazavi.2015. Saturation Moisture and Soil Capacity Zoning Using Transitional Functions and Land Statistics Method in Balkhlochai Basin. The 2nd National Conference on Water, Human and Earth. Pages 10.
 - Majid Ramezani Sarbandi, Reza Ghazavi, Seyyed Mostafa Mortazavi .2015. Provide management plan for exploitation of groundwater resources based on the potential of aquifer contamination (Case study of Rafsanjan Plain). International Conference on Environment and Natural Resources. p 5.
 - Majid Ramezani Sarbandi , Reza Ghazavi , Siamak Dokhani. 2015. Management of Groundwater Pollution Reduction Using Water Resource Potential . International Conference on Environment and Natural Resources. Pages 7.
- Abbas Ghaffari , Reza Ghazavi , Siamak Dokhani , Jafar Ghaffari Corner. 2015. Application of SWAT model in basin runoff estimation in future periods affected by climate change. Second International Conference on Environment and Natural Resources. Pages 6.
- Omid Moradi, Kamran Chipi, Reza Ghazavi .2014. The Effect of Climate Change on Economic and Social Indicators of Watershed in Sanandaj. National Conference on Climate Change and Engineering for Sustainable Development of Agriculture and Natural Resources. P. 22.
 - Zahra Khademat Al Rasoul, Reza Ghazavi , Seyyed Hojjat Mousavi.2014. Study of Ecotourism Potential of Flower Field. First National Conference on Tourism and Green Tourism. P. 12.
 - Hassan ZabbarJedi, Reza Ghazavi, Mohsen Shah Abadi , Adel Zarei .2014. Investigating the Gully erosion potential using hydrothermal climate coefficients and soil moisture deficit (Case study: Ghahrood watershed in Hamadan). Second National Conference on Agriculture and Sustainable Natural Resources. Pages 8.
 - Fazli Farsani Arash, Ghazavi Reza, Farzaneh Mohammad Reza .2013. The effect of climate change on temperature increase at synoptic station in Shahrekord. First National Agricultural and Sustainable Natural Resources Conference. Tehran, Iran.
 - Ghazavi Reza, Zarbeedi Hasan .2013. Investigating the role of land use, lithology and land plots in gully erosion. The first conference on environment, energy, and biological protection. Tehran. Iran.
 - Fazeli Farsani Arash, Ghazavi Reza, Bagheri Mohammad Hossein, Fazli Farsani Iman .2013. Estimation of the accuracy of most similarity algorithms and backup carriers in estimating land use using remote sensing. First National Agricultural and Sustainable Natural Resources Conference.
 - Ghazavi R, Vali A.2010. Modulation of Wind Sedimentation on Geomorphic Slopes Levels "Second National Conference on Wind Erosion and Dust Storm in Yazd University. Yazd, Iran
 - Ghazavi R, Vali AB, Mousavi, S. 2010. Evaluation of Allometric Relations Between Morphometric Parameters of Barkhan Hills "Second National Conference on Wind Erosion and Dust Storm in Yazd University. Yazd. Iran.

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- Ghazavi R, Vali A. 2011. Utilization of Environmental Capabilities in Urban and Rural Areas for the Management of Water Resources and Sustainable Development "The First Urban Sustainable Development Conference of Guilan University.
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- Vali A, Ghazavi R "Geomorphic modeling suspended sediment yield of river system by radial neural network. " 6th International Congress of ESSC (2011). Greece.
- Ghazavi R, Vali A "Soil physicochemical properties and vegetation cover in an arid environment revegetated with Atriplex " 6th international congress of ESSC (2011). Greece.
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- Vali A, Ghazavi R "Artificial neural networks simulation of groundwater level in a flood spreading system " 6th International Congress of ESSC (2011). Greece.
- Ghazavi R, Vali .A.B . Ghasemi,R. 2010 Investigation the impact of flood spreading project on groundwater level. The first international Applied Geology Conferance .Mashad. Iran
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15. Summary of Scientific and Research Capabilities

Water and Water Resources

- Water resources management
- Unconventional water resources management
- Aquifers and groundwater
- Artificial aquifer recharge
- Surface-water/groundwater interactions
- Water quality and pollution

Hydrology and Floods

- Watershed hydrology
- Urban hydrology
- Runoff modeling
- Flood control
- Rainfall analysis and IDF curves
- SWAT
- SWMM
- HEC-RAS

Watershed Management

- Performance assessment of watershed-management measures
- Watershed-management structures
- Integrated watershed management
- Strategic watershed planning
- Watershed-resident participation
- Sustainable natural-resource management

Climate Change and Drought

- Climate-change analysis
- Climate-scenario modeling
- Meteorological and hydrological drought
- Effects of climate change on runoff and water resources
- Effects of climate change on aquifers

GIS, Remote Sensing and Modeling

- GIS
- Remote sensing
- Spatial models
- DRASTIC and GODS
- WRASTIC
- InVEST
- MODFLOW
- WEAP
- SWAT
- SWMM
- AHP, SWOT and QSPM methods
- MaxEnt
- WoE