

Behzad Ataie-Ashtiani

List of Publications by Year in descending order

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Version: 2024-02-01

135
papers

5,975
citations

70961

41
h-index

79541

73
g-index

142
all docs

142
docs citations

142
times ranked

4584
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation and inter-comparison of models for landslide tsunami generation. <i>Ocean Modelling</i> , 2022, 170, 101943.	1.0	18
2	A multifaceted quantitative index for sustainability assessment of groundwater management: application for aquifers around Iran. <i>Water International</i> , 2022, 47, 338-360.	0.4	8
3	Effect of DEM resolution in flood modeling: a case study of Gorganrood River, Northeastern Iran. <i>Natural Hazards</i> , 2022, 112, 2673-2693.	1.6	8
4	Quantifying lake-aquifer water exchange: the case of Lake Urmia, Iran. <i>Hydrological Sciences Journal</i> , 2022, 67, 725-740.	1.2	3
5	DNAPL flow and complex electrical resistivity evolution in saturated porous media: A coupled numerical simulation. <i>Journal of Contaminant Hydrology</i> , 2022, 248, 104003.	1.6	4
6	Editorial: Modeling-Based Approaches for Water Resources Problems. <i>Frontiers in Water</i> , 2022, 4, .	1.0	1
7	Improvement of soil moisture and groundwater level estimations using a scale-consistent river parameterization for the coupled ParFlow-CLM hydrological model: A case study of the Upper Rhine Basin. <i>Journal of Hydrology</i> , 2022, 610, 127991.	2.3	1
8	Graphitic carbon nitride-based composites for photocatalytic abatement of emerging pollutants. , 2022, , 175-214.		1
9	Comparison of statistical and MCDM approaches for flood susceptibility mapping in northern Iran. <i>Journal of Hydrology</i> , 2022, 612, 128072.	2.3	24
10	Review of assimilating GRACE terrestrial water storage data into hydrological models: Advances, challenges and opportunities. <i>Earth-Science Reviews</i> , 2021, 213, 103487.	4.0	26
11	A conjunctive management framework for the optimal design of pumping and injection strategies to mitigate seawater intrusion. <i>Journal of Environmental Management</i> , 2021, 282, 111964.	3.8	24
12	Hybrid finite volume-finite element methods for hydro-mechanical analysis in highly heterogeneous porous media. <i>Computers and Geotechnics</i> , 2021, 132, 103996.	2.3	4
13	Lake Urmia restoration success story: A natural trend or a planned remedy?. <i>Journal of Great Lakes Research</i> , 2021, 47, 955-969.	0.8	20
14	Integrated impacts of vegetation and soil type on slope stability: A case study of Kheyroud Forest, Iran. <i>Ecological Modelling</i> , 2021, 446, 109498.	1.2	17
15	Convective-reactive transport of dissolved CO ₂ in fractured-geological formations. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103365.	2.3	16
16	Land subsidence: A global challenge. <i>Science of the Total Environment</i> , 2021, 778, 146193.	3.9	102
17	The Autonomy of Science as a Civilian Casualty of Economic Warfare: Inadvertent Censorship of Science Resulting from Unilateral Economic Sanctions. <i>Science and Engineering Ethics</i> , 2021, 27, 49.	1.7	2
18	Study of the Effect of Thermal Dispersion on Internal Natural Convection in Porous Media Using Fourier Series. <i>Transport in Porous Media</i> , 2020, 131, 537-568.	1.2	11

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19	Improving model-data interaction in hydrogeology: Insights from different disciplines. <i>Journal of Hydrology</i> , 2020, 580, 124275.	2.3	3
20	Normalized difference vegetation index as the dominant predicting factor of groundwater recharge in phreatic aquifers: case studies across Iran. <i>Scientific Reports</i> , 2020, 10, 17473.	1.6	31
21	An improved Kalman filtering approach for the estimation of unsaturated flow parameters by assimilating photographic imaging data. <i>Journal of Hydrology</i> , 2020, 590, 125373.	2.3	7
22	A Fourier Series Solution for Transient Three-Dimensional Thermohaline Convection in Porous Enclosures. <i>Water Resources Research</i> , 2020, 56, e2020WR028111.	1.7	4
23	Uncertainty quantification and global sensitivity analysis of double-diffusive natural convection in a porous enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2020, 162, 120291.	2.5	19
24	Influence of lakebed sediment deposit on the interaction of hypersaline lake and groundwater: A simplified case of lake Urmia, Iran. <i>Journal of Hydrology</i> , 2020, 588, 125110.	2.3	26
25	Effect of distance-dependent dispersivity on density-driven flow in porous media. <i>Journal of Hydrology</i> , 2020, 589, 125204.	2.3	8
26	Influence of river cross-section data resolution on flood inundation modeling: Case study of Kashkan river basin in western Iran. <i>Journal of Hydrology</i> , 2020, 584, 124743.	2.3	29
27	Interaction of lake-groundwater levels using cross-correlation analysis: A case study of Lake Urmia Basin, Iran. <i>Science of the Total Environment</i> , 2020, 729, 138822.	3.9	34
28	The millennium-old hydrogeology textbook <i>The Extraction of Hidden Waters</i> by the Persian mathematician and engineer AbubakrÂMohammadÂKaraji (953â€1029â€CE). <i>Hydrology and Earth System Sciences</i> , 2020, 24, 761-769.	1.9	5
29	Discussion of "Estimation of Clear-Water Local Scour at Pile Groups Using Genetic Expression Programming and Multivariate Adaptive Regression Splines" by S. M. Bateni, H. R. Vosoughifar, B. Truce, and D. S. Jeng. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2020, 146, 07020001.	0.5	0
30	A probabilistic framework for water budget estimation in low runoff regions: A case study of the central Basin of Iran. <i>Journal of Hydrology</i> , 2020, 586, 124898.	2.3	15
31	Unstable Density-Driven Flow in Fractured Porous Media: The Fractured Elder Problem. <i>Fluids</i> , 2019, 4, 168.	0.8	8
32	Representative pumping wells network to estimate groundwater withdrawal from aquifers: Lessons from a developing country, Iran. <i>Journal of Hydrology</i> , 2019, 578, 124090.	2.3	7
33	Uncertainty analysis for seawater intrusion in fractured coastal aquifers: Effects of fracture location, aperture, density and hydrodynamic parameters. <i>Journal of Hydrology</i> , 2019, 571, 159-177.	2.3	48
34	Lake Urmia crisis and restoration plan: Planning without appropriate data and model is gambling. <i>Journal of Hydrology</i> , 2019, 576, 639-651.	2.3	57
35	Engineering nanomaterials for water and wastewater treatment: review of classifications, properties and applications. <i>New Journal of Chemistry</i> , 2019, 43, 7902-7927.	1.4	72
36	Assessment of sustainable groundwater resources management using integrated environmental index: Case studies across Iran. <i>Science of the Total Environment</i> , 2019, 676, 792-810.	3.9	39

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37	A Modeling Platform for Landslide Stability: A Hydrological Approach. <i>Water (Switzerland)</i> , 2019, 11, 2146.	1.2	10
38	On the effects of landslide deformability and initial submergence on landslide-generated waves. <i>Landslides</i> , 2019, 16, 37-53.	2.7	20
39	Impacts of groundwater depth on regional scale soil gleyization under changing climate in the Poyang Lake Basin, China. <i>Journal of Hydrology</i> , 2019, 568, 501-516.	2.3	15
40	Vulnerability mapping of coastal aquifers to seawater intrusion: Review, development and application. <i>Journal of Hydrology</i> , 2019, 570, 555-573.	2.3	68
41	Non-pumping reactive wells filled with mixing nano and micro zero-valent iron for nitrate removal from groundwater: Vertical, horizontal, and slanted wells. <i>Journal of Contaminant Hydrology</i> , 2018, 210, 50-64.	1.6	28
42	Confusion About "Convection". <i>Ground Water</i> , 2018, 56, 683-687.	0.7	4
43	Density-based global sensitivity analysis of sheet-flow travel time: Kinematic wave-based formulations. <i>Journal of Hydrology</i> , 2018, 559, 556-568.	2.3	2
44	Prediction of current-induced local scour around complex piers: Review, revisit, and integration. <i>Coastal Engineering</i> , 2018, 133, 43-58.	1.7	28
45	Semianalytical solutions for contaminant transport under variable velocity field in a coastal aquifer. <i>Journal of Hydrology</i> , 2018, 560, 434-450.	2.3	6
46	World Map of Scientific Misconduct. <i>Science and Engineering Ethics</i> , 2018, 24, 1653-1656.	1.7	19
47	On the use of COMSOL Multiphysics for seawater intrusion in fractured coastal aquifers. <i>E3S Web of Conferences</i> , 2018, 54, 00020.	0.2	11
48	Fourier series solution for an anisotropic and layered configuration of the dispersive Henry Problem. <i>E3S Web of Conferences</i> , 2018, 54, 00014.	0.2	0
49	Model-data interaction in groundwater studies: Review of methods, applications and future directions. <i>Journal of Hydrology</i> , 2018, 567, 457-477.	2.3	50
50	Discussion of "an integrated framework of extreme learning machines for predicting scour at pile groups in clear water condition" by: I. Ebtahaj, H. Bonakdari, F. Moradi, B. Gharabaghi, Z. Sheikh Khozani. <i>Coastal Engineering</i> , 2018, 142, 106-109.	1.7	2
51	A Generalized Semi-Analytical Solution for the Dispersive Henry Problem: Effect of Stratification and Anisotropy on Seawater Intrusion. <i>Water (Switzerland)</i> , 2018, 10, 230.	1.2	17
52	Chinese and Iranian Scientific Publications: Fast Growth and Poor Ethics. <i>Science and Engineering Ethics</i> , 2017, 23, 317-319.	1.7	31
53	A rigorous finite volume model to simulate subaerial and submarine landslide-generated waves. <i>Landslides</i> , 2017, 14, 203-221.	2.7	56
54	Numerical simulations of turbulent flow around side-by-side circular piles with different spacing ratios. <i>International Journal of River Basin Management</i> , 2017, 15, 227-238.	1.5	2

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55	Conceptualization of Karstic Aquifer with Multiple Outlets Using a Dual Porosity Model. <i>Ground Water</i> , 2017, 55, 558-564.	0.7	4
56	Scour hole depth prediction around pile groups: review, comparison of existing methods, and proposition of a new approach. <i>Natural Hazards</i> , 2017, 88, 977-1001.	1.6	17
57	Vulnerability assessment of urban groundwater resources to nitrate: the case study of Mashhad, Iran. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	29
58	Spring hydrograph simulation of karstic aquifers: Impacts of variable recharge area, intermediate storage and memory effects. <i>Journal of Hydrology</i> , 2017, 552, 225-240.	2.3	22
59	Fuzzy vulnerability mapping of urban groundwater systems to nitrate contamination. <i>Environmental Modelling and Software</i> , 2017, 96, 146-157.	1.9	26
60	Subaerial Landslide-Generated Waves: Numerical and Laboratory Simulations. , 2017, , 51-73.		3
61	Scour Hole Influence on Turbulent Flow Field around Complex Bridge Piers. <i>Flow, Turbulence and Combustion</i> , 2016, 97, 451-474.	1.4	43
62	Discussion of "Neuro-fuzzy GMDH systems based evolutionary algorithms to predict scour pile groups in clear water conditions" by M. Najafzadeh. <i>Ocean Engineering</i> , 2016, 123, 249-252.	1.9	10
63	Numerical modeling of subaerial and submarine landslide-generated tsunami waves "recent advances and future challenges. <i>Landslides</i> , 2016, 13, 1325-1368.	2.7	148
64	Preface: Thematic issue "Landslide-generated tsunami waves". <i>Landslides</i> , 2016, 13, 1321-1321.	2.7	1
65	Numerical modeling of subsidence in saturated porous media: A mass conservative method. <i>Journal of Hydrology</i> , 2016, 542, 423-436.	2.3	6
66	The Henry problem: New semianalytical solution for velocity-dependent dispersion. <i>Water Resources Research</i> , 2016, 52, 7382-7407.	1.7	36
67	Uncertainty analysis of wind-wave predictions in Lake Michigan. <i>China Ocean Engineering</i> , 2016, 30, 811-820.	0.6	3
68	Declaration of Conflicts of Interest in Networking Era: Raising the Bar. <i>Science and Engineering Ethics</i> , 2016, 22, 1855-1857.	1.7	0
69	Curbing Iran's academic misconduct. <i>Science</i> , 2016, 351, 1273-1274.	6.0	12
70	Sea-level rise impacts on seawater intrusion in coastal aquifers: Review and integration. <i>Journal of Hydrology</i> , 2016, 535, 235-255.	2.3	219
71	Groundwater travel time computation for two-layer islands. <i>Hydrogeology Journal</i> , 2016, 24, 1045-1055.	0.9	14
72	Efficient fuzzy Bayesian inference algorithms for incorporating expert knowledge in parameter estimation. <i>Journal of Hydrology</i> , 2016, 536, 255-272.	2.3	32

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73	Recruitment Processes in Academia: Does the Emperor Have Any Clothes?. Science and Engineering Ethics, 2016, 22, 1565-1568.	1.7	1
74	Comment on "Effects of tidal fluctuations on mixing and spreading in coastal aquifers: Homogeneous case" by MarÅa Pool et al.. Water Resources Research, 2015, 51, 4858-4858.	1.7	3
75	A robust finite volume model to simulate granular flows. Computers and Geotechnics, 2015, 66, 96-112.	2.3	17
76	Efficiency enhancement of optimized Latin hypercube sampling strategies: Application to Monte Carlo uncertainty analysis and meta-modeling. Advances in Water Resources, 2015, 76, 127-139.	1.7	63
77	A comparison of finite volume formulations and coupling strategies for two-phase flow in deforming porous media. Computers and Geotechnics, 2015, 67, 17-32.	2.3	14
78	Review: Coastal groundwater optimization"advances, challenges, and practical solutions. Hydrogeology Journal, 2015, 23, 1129-1154.	0.9	71
79	Assessment of a parallel evolutionary optimization approach for efficient management of coastal aquifers. Environmental Modelling and Software, 2015, 74, 21-38.	1.9	34
80	Evaluation of methods for estimating aquifer hydraulic parameters. Applied Soft Computing Journal, 2015, 28, 541-549.	4.1	21
81	Polynomial chaos expansions for uncertainty propagation and moment independent sensitivity analysis of seawater intrusion simulations. Journal of Hydrology, 2015, 520, 101-122.	2.3	101
82	Evolutionary algorithms for the optimal management of coastal groundwater: A comparative study toward future challenges. Journal of Hydrology, 2015, 520, 193-213.	2.3	98
83	Sampling efficiency in Monte Carlo based uncertainty propagation strategies: Application in seawater intrusion simulations. Advances in Water Resources, 2014, 67, 46-64.	1.7	44
84	Finite volume coupling strategies for the solution of a Biot consolidation model. Computers and Geotechnics, 2014, 55, 494-505.	2.3	21
85	Influence of Boundary Condition Types on Unstable Density-Dependent Flow. Ground Water, 2014, 52, 378-387.	0.7	9
86	Conceptualization of a fresh groundwater lens influenced by climate change: A modeling study of an arid-region island in the Persian Gulf, Iran. Journal of Hydrology, 2014, 519, 399-413.	2.3	49
87	Sea-level rise impact on fresh groundwater lenses in two-layer small islands. Hydrological Processes, 2014, 28, 5938-5953.	1.1	94
88	Transient free-surface seepage in three-dimensional general anisotropic media by BEM. Engineering Analysis With Boundary Elements, 2014, 46, 51-66.	2.0	24
89	Optimal Management of a Freshwater Lens in a Small Island Using Surrogate Models and Evolutionary Algorithms. Journal of Hydrologic Engineering - ASCE, 2014, 19, 339-354.	0.8	58
90	Inverse modelling for freshwater lens in small islands: Kish Island, Persian Gulf. Hydrological Processes, 2013, 27, 2759-2773.	1.1	32

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91	Discussion of "Clear-Water Local Scour around Pile Groups in Shallow-Water Flow" by Ata Amini, Bruce W. Melville, Thamer M. Ali, and Abdul H. Ghazali. Journal of Hydraulic Engineering, 2013, 139, 679-680.	0.7	9
92	Seepage analysis in multi-domain general anisotropic media by three-dimensional boundary elements. Engineering Analysis With Boundary Elements, 2013, 37, 527-541.	2.0	12
93	Seawater intrusion processes, investigation and management: Recent advances and future challenges. Advances in Water Resources, 2013, 51, 3-26.	1.7	1,046
94	Estimation of current-induced pile groups scour using a rule-based method. Journal of Hydroinformatics, 2013, 15, 516-528.	1.1	26
95	Flow Field Around Single and Tandem Piers. Flow, Turbulence and Combustion, 2013, 90, 471-490.	1.4	72
96	How important is the impact of land-surface inundation on seawater intrusion caused by sea-level rise?. Hydrogeology Journal, 2013, 21, 1673-1677.	0.9	72
97	Flow field around side-by-side piers with and without a scour hole. European Journal of Mechanics, B/Fluids, 2012, 36, 152-166.	1.2	48
98	Mathematical Forms and Numerical Schemes for the Solution of Unsaturated Flow Equations. Journal of Irrigation and Drainage Engineering - ASCE, 2012, 138, 63-72.	0.6	13
99	Three dimensional flow in anisotropic zoned porous media using boundary element method. Engineering Analysis With Boundary Elements, 2012, 36, 812-824.	2.0	7
100	Capture Zone of a Partially Penetrating Well with Skin Effects in Confined Aquifers. Transport in Porous Media, 2012, 91, 437-457.	1.2	15
101	Bench-Scaled Nano-Fe ⁰ Permeable Reactive Barrier for Nitrate Removal. Ground Water Monitoring and Remediation, 2011, 31, 82-94.	0.6	24
102	Elitist Continuous Ant Colony Optimization Algorithm for Optimal Management of Coastal Aquifers. Water Resources Management, 2011, 25, 165-190.	1.9	71
103	Numerical simulation of wave generated by landslide incidents in dam reservoirs. Landslides, 2011, 8, 417-432.	2.7	69
104	Nitrate reduction by nano-Fe/Cu particles in packed column. Desalination, 2011, 276, 214-221.	4.0	142
105	Comparison of Numerical Formulations for Two-phase Flow in Porous Media. Geotechnical and Geological Engineering, 2010, 28, 373-389.	0.8	16
106	Experimental Study of Three-Dimensional Flow Field around a Complex Bridge Pier. Journal of Engineering Mechanics - ASCE, 2010, 136, 143-154.	1.6	46
107	Experimental Investigation of Clear-Water Local Scour of Compound Piers. Journal of Hydraulic Engineering, 2010, 136, 343-351.	0.7	103
108	Assessment of nitrate contamination in unsaturated zone of urban areas: The case study of Tehran, Iran. Environmental Geology, 2009, 57, 1785-1798.	1.2	30

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109	Estimation of current-induced scour depth around pile groups using neural network and adaptive neuro-fuzzy inference system. <i>Applied Soft Computing Journal</i> , 2009, 9, 746-755.	4.1	119
110	Modification of Weakly Compressible Smoothed Particle Hydrodynamics for Preservation of Angular Momentum in Simulation of Impulsive Wave Problems. <i>Coastal Engineering Journal</i> , 2009, 51, 363-386.	0.7	11
111	Laboratory investigations on impulsive waves caused by underwater landslide. <i>Coastal Engineering</i> , 2008, 55, 989-1004.	1.7	65
112	Impulsive waves caused by subaerial landslides. <i>Environmental Fluid Mechanics</i> , 2008, 8, 263-280.	0.7	113
113	Numerical simulation of landslide impulsive waves by incompressible smoothed particle hydrodynamics. <i>International Journal for Numerical Methods in Fluids</i> , 2008, 56, 209-232.	0.9	162
114	Estimation of near-field characteristics of tsunami generation by submarine landslide. <i>Ocean Engineering</i> , 2008, 35, 545-557.	1.9	43
115	Analysis of threshold and incipient conditions for sediment movement. <i>Coastal Engineering</i> , 2008, 55, 423-430.	1.7	55
116	Modified incompressible SPH method for simulating free surface problems. <i>Fluid Dynamics Research</i> , 2008, 40, 637-661.	0.6	56
117	A higher-order Boussinesq-type model with moving bottom boundary: applications to submarine landslide tsunami waves. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 53, 1019-1048.	0.9	53
118	MODSharp: Regional-scale numerical model for quantifying groundwater flux and contaminant discharge into the coastal zone. <i>Environmental Modelling and Software</i> , 2007, 22, 1307-1315.	1.9	14
119	Experimental Investigation of Clear-Water Local Scour at Pile Groups. <i>Journal of Hydraulic Engineering</i> , 2006, 132, 1100-1104.	0.7	205
120	A stable moving-particle semi-implicit method for free surface flows. <i>Fluid Dynamics Research</i> , 2006, 38, 241-256.	0.6	96
121	A note on benchmarking of numerical models for density dependent flow in porous media. <i>Advances in Water Resources</i> , 2006, 29, 1918-1923.	1.7	6
122	Synchronous measurements of the velocity and concentration in low density turbidity currents using an Acoustic Doppler Velocimeter. <i>Flow Measurement and Instrumentation</i> , 2006, 17, 59-68.	1.0	57
123	Error analysis of finite difference methods for two-dimensional advection–dispersion–reaction equation. <i>Advances in Water Resources</i> , 2005, 28, 793-806.	1.7	25
124	Numerical errors of explicit finite difference approximation for two-dimensional solute transport equation with linear sorption. <i>Environmental Modelling and Software</i> , 2005, 20, 817-826.	1.9	18
125	A Numerical Study of Micro-Heterogeneity Effects on Upscaled Properties of Two-Phase Flow in Porous Media. <i>Transport in Porous Media</i> , 2004, 56, 329-350.	1.2	32
126	Improved MPS method for simulating water flow with irregular free surface. <i>Developments in Water Science</i> , 2004, , 1743-1753.	0.1	0

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127	Numerical modelling of two-phase flow in a geocentrifuge. Environmental Modelling and Software, 2003, 18, 231-241.	1.9	17
128	Numerical simulation of two-phase flow in a geocentrifuge. Developments in Water Science, 2002, 47, 225-232.	0.1	0
129	Effects of heterogeneities on capillary pressure-saturation relative permeability relationships. Journal of Contaminant Hydrology, 2002, 56, 175-192.	1.6	69
130	Tidal effects on groundwater dynamics in unconfined aquifers. Hydrological Processes, 2001, 15, 655-669.	1.1	94
131	Effective parameters for two-phase flow in a porous medium with periodic heterogeneities. Journal of Contaminant Hydrology, 2001, 49, 87-109.	1.6	42
132	Truncation errors in finite difference models for solute transport equation with first-order reaction. Journal of Contaminant Hydrology, 1999, 35, 409-428.	1.6	34
133	Tidal effects on sea water intrusion in unconfined aquifers. Journal of Hydrology, 1999, 216, 17-31.	2.3	261
134	Numerical and experimental study of seepage in unconfined aquifers with a periodic boundary condition. Journal of Hydrology, 1999, 222, 165-184.	2.3	51
135	COMMENT ON "REMOVING NUMERICALLY INDUCED DISPERSION FROM FINITE DIFFERENCE MODELS FOR SOLUTE AND WATER TRANSPORT IN UNSATURATED SOILS" Soil Science, 1995, 160, 442-443.	0.9	4