

Akbar A Javadi

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

2,968
citations

159358

30
h-index

205818

48
g-index

128
all docs

128
docs citations

128
times ranked

2103
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting resilient modulus of flexible pavement foundation using extreme gradient boosting based optimised models. International Journal of Pavement Engineering, 2023, 24, .	2.2	65
2	Effect of forced carbonation on the behaviour of a magnesia-stabilised clay soil. International Journal of Pavement Engineering, 2022, 23, 1691-1705.	2.2	4
3	Assessment of different agents for stabilisation of a clay soil. International Journal of Pavement Engineering, 2022, 23, 160-170.	2.2	10
4	Insights into enhanced electrokinetic remediation of copper-contaminated soil using a novel conductive membrane based on nanoparticles. Environmental Geochemistry and Health, 2022, 44, 1015-1032.	1.8	3
5	Understanding the NEEDS for ACTING: An integrated framework for applying nature-based solutions in Brazil. Water Science and Technology, 2022, 85, 987-1010.	1.2	7
6	Effects of Class C and Class F Fly Ash on Mechanical and Microstructural Behavior of Clay Soil – A Comparative Study. Materials, 2022, 15, 1845.	1.3	13
7	Role of Subgrade Reaction Modulus in Soil-Foundation-Structure Interaction in Concrete Buildings. Buildings, 2022, 12, 540.	1.4	5
8	Experimental investigation on a combination of soil electrokinetic consolidation and remediation of drained water using composite nanofiber-based electrodes. Science of the Total Environment, 2022, 836, 155562.	3.9	6
9	Remediation of a clay soil contaminated with phenanthrene by using MgO and forced carbonation. Journal of Chemical Technology and Biotechnology, 2022, 97, 2636-2647.	1.6	2
10	Effect of glycerol on the behaviour of an expansive soil during wetting and drying cycles. International Journal of Pavement Engineering, 2021, 22, 1284-1294.	2.2	4
11	Treatment of a clay soil deposited in saline water by cement. European Journal of Environmental and Civil Engineering, 2021, 25, 1521-1537.	1.0	3
12	Analysing the performance of liquid cooling designs in cylindrical lithium-ion batteries. Journal of Energy Storage, 2021, 33, 100913.	3.9	58
13	Optimization of a Horizontal Axis Tidal (HAT) turbine for powering a Reverse Osmosis (RO) desalination system using Computational Fluid Dynamics (CFD) and Taguchi method. Energy Conversion and Management, 2021, 231, 113833.	4.4	10
14	Management of saltwater intrusion in coastal aquifers using different wells systems: a case study of the Nile Delta aquifer in Egypt. Hydrogeology Journal, 2021, 29, 1767-1783.	0.9	27
15	An experimental study of a gamma-type MTD stirling engine. Case Studies in Thermal Engineering, 2021, 24, 100871.	2.8	5
16	An integrated socio-environmental framework for mapping hazard-specific vulnerability and exposure in urban areas. Urban Water Journal, 2021, 18, 530-543.	1.0	10
17	Design, fabrication and verification of a novel auxetic microstructure using topology optimization. Bulletin of Materials Science, 2021, 44, 1.	0.8	0
18	Analysing the Influential Parameters on the Monopile Foundation of an Offshore Wind Turbine. Computation, 2021, 9, 71.	1.0	4

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19	Coupled three-dimensional modelling of groundwater-surface water interactions for management of seawater intrusion in Pingtung Plain, Taiwan. <i>Journal of Hydrology: Regional Studies</i> , 2021, 36, 100850.	1.0	6
20	Surface Stabilization of Soils Susceptible to Wind Erosion Using Volcanic Ash-Based Geopolymer. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	8
21	Analysis of Inlet Configurations on the Microclimate Conditions of a Novel Standalone Agricultural Greenhouse for Egypt Using Computational Fluid Dynamics. <i>Sustainability</i> , 2021, 13, 1446.	1.6	8
22	Place-Based Citizen Science for Assessing Risk Perception and Coping Capacity of Households Affected by Multiple Hazards. <i>Sustainability</i> , 2021, 13, 302.	1.6	10
23	Investigation of Structural Behavior of Tapered Ring and Parallel Ring Linings in Tunnels. <i>Soil Mechanics and Foundation Engineering</i> , 2021, 58, 406-410.	0.2	0
24	Effect of pore water chemistry on the behaviour of a kaolin-bentonite mixture during drying and wetting cycles. <i>European Journal of Environmental and Civil Engineering</i> , 2020, 24, 895-914.	1.0	23
25	Effect of Two Organic Chemical Fluids on the Mechanical Properties of an Expansive Clay Soil. <i>Journal of Testing and Evaluation</i> , 2020, 48, 20170623.	0.4	9
26	Impact of water and solution of glycerol on the treatment of sediment by cement. <i>International Journal of Pavement Engineering</i> , 2020, 21, 322-335.	2.2	3
27	Decarbonisation Using Hybrid Energy Solution: Case Study of Zagazig, Egypt. <i>Energies</i> , 2020, 13, 4680.	1.6	4
28	Availability and Feasibility of Water Desalination as a Non-Conventional Resource for Agricultural Irrigation in the MENA Region: A Review. <i>Sustainability</i> , 2020, 12, 7592.	1.6	21
29	A Zero-Liquid Discharge Model for a Transient Solar-Powered Desalination System for Greenhouse. <i>Water (Switzerland)</i> , 2020, 12, 1440.	1.2	9
30	Optimization of the hydrodynamic performance of a vertical Axis tidal (VAT) turbine using CFD-Taguchi approach. <i>Energy Conversion and Management</i> , 2020, 222, 113235.	4.4	23
31	Three dimensional finite element modelling of metatarsal stresses during running. <i>Journal of Medical Engineering and Technology</i> , 2020, 44, 368-377.	0.8	3
32	Analysing the Material Suitability and Concentration Ratio of a Solar-Powered Parabolic trough Collector (PTC) Using Computational Fluid Dynamics. <i>Energies</i> , 2020, 13, 5479.	1.6	7
33	Experimental Analysis and Characterization of High-Purity Aluminum Nanoparticles (Al-NPs) by Electromagnetic Levitation Gas Condensation (ELGC). <i>Nanomaterials</i> , 2020, 10, 2084.	1.9	0
34	Modelling seawater intrusion in the Pingtung coastal aquifer in Taiwan, under the influence of sea-level rise and changing abstraction regime. <i>Hydrogeology Journal</i> , 2020, 28, 2085-2103.	0.9	19
35	Effect of Freezing on Stress-Strain Characteristics of Granular and Cohesive Soils. <i>Journal of Cold Regions Engineering - ASCE</i> , 2020, 34, .	0.5	34
36	Experimental and CFD Analysis of Impact of Surface Roughness on Hydrodynamic Performance of a Darrieus Hydro (DH) Turbine. <i>Energies</i> , 2020, 13, 928.	1.6	7

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37	Stabilisation of a clay soil by ion injection using an electrical field. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2020, , 1-13.	0.7	4
38	Land-Use and Legislation-Based Methodology for the Implementation of Sustainable Drainage Systems in the Semi-Arid Region of Brazil. Sustainability, 2020, 12, 661.	1.6	11
39	Study of the Effects of Vent Configuration on Mono-Span Greenhouse Ventilation Using Computational Fluid Dynamics. Sustainability, 2020, 12, 986.	1.6	29
40	Towards a Sustainable Greenhouse: Review of Trends and Emerging Practices in Analysing Greenhouse Ventilation Requirements to Sustain Maximum Agricultural Yield. Sustainability, 2020, 12, 2794.	1.6	28
41	Effective stress parameter in unsaturated soils: an evolutionary-based prediction model. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 2020, 173, 96-105.	1.1	4
42	Stress Distribution of the Tibiofemoral Joint in a Healthy Versus Osteoarthritis Knee Model Using Image-Based Three-Dimensional Finite Element Analysis. Journal of Medical and Biological Engineering, 2020, 40, 409-418.	1.0	9
43	Effect of Mono Ethylene Glycol Solution on Mechanical Behavior of a Clay Soil. Journal of Testing and Evaluation, 2020, 48, 938-954.	0.4	2
44	Electrokinetic Remediation of a Soil Contaminated with Anthracene Using Different Surfactants. Environmental Engineering Science, 2019, 36, 197-206.	0.8	5
45	Properties of sediments deposited in a fluid with different pH. Marine Georesources and Geotechnology, 2019, 37, 643-650.	1.2	4
46	Stabilisation of clay soil with polymers through electrokinetic technique. European Journal of Environmental and Civil Engineering, 2019, , 1-19.	1.0	4
47	TiO ₂ and SiO ₂ Nanoparticles Combined with Surfactants Mitigate the Toxicity of Cd ²⁺ to Wheat Seedlings. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	9
48	Smart energy solution for an optimised sustainable hospital in the green city of NEOM. Sustainable Energy Technologies and Assessments, 2019, 35, 32-40.	1.7	29
49	Analysis of the thermal efficiency of a compound parabolic Integrated Collector Storage solar water heater in Kerman, Iran. Sustainable Energy Technologies and Assessments, 2019, 36, 100564.	1.7	16
50	Management of Seawater Intrusion in Coastal Aquifers: A Review. Water (Switzerland), 2019, 11, 2467.	1.2	97
51	An Analytical Approach to Probabilistic Modeling of Liquefaction Based on Shear Wave Velocity. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 263-275.	1.0	14
52	Failure-mode analysis of loose deposit slope in Yaâ™an-Kangding Expressway under seismic loading using particle flow code. Granular Matter, 2019, 21, 1.	1.1	4
53	Developing constitutive models from EPRâ€based selfâ€learning finite element analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 401-417.	1.7	16
54	Mechanical and Leaching Behavior of a Stabilized and Solidified Anthracene-Contaminated Soil. Journal of Environmental Engineering, ASCE, 2018, 144, .	0.7	13

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55	A three-dimensional finite element analysis of the human hip. Journal of Medical Engineering and Technology, 2018, 42, 546-552.	0.8	16
56	An evolutionary modelling approach to predicting stress-strain behaviour of saturated granular soils. Engineering Computations, 2018, 35, 2931-2952.	0.7	19
57	A new approach to modeling the behavior of frozen soils. Engineering Geology, 2018, 246, 82-90.	2.9	58
58	Analysis of Soil-Compacting Effect Caused by Shield Tunneling Using Three-Dimensional Elastoplastic Solution of Cylindrical Cavity Expansion. Mathematical Problems in Engineering, 2018, 2018, 1-14.	0.6	1
59	Effect of Quality Electrolyte Fluid on Removing MTBE from a Clay Soil Using Electrokinetic Technique. Journal of Environmental Engineering, ASCE, 2018, 144, 04018102.	0.7	0
60	Baseline study in environmental risk assessment: Escalating need for computer models to be whole-system approach. Critical Reviews in Environmental Science and Technology, 2017, 47, 289-313.	6.6	3
61	Stabilization and Solidification of a Clay Soil Contaminated with MTBE. Journal of Environmental Engineering, ASCE, 2017, 143, .	0.7	12
62	ASSESSMENT OF DIFFERENT MANAGEMENT SCENARIOS TO CONTROL SEAWATER INTRUSION IN UNCONFINED COASTAL AQUIFERS. The Journal of the University of Duhok, 2017, 20, 259-275.	0.0	3
63	Simulation of seawater intrusion in the Nile Delta aquifer under the conditions of climate change. Hydrology Research, 2016, 47, 1198-1210.	1.1	48
64	A cost-effective method to protect the coastal regions from sea level rise. A case study: northern coasts of Egypt. Journal of Water and Climate Change, 2016, 7, 114-127.	1.2	7
65	Effect of thermal history on the properties of bentonite. Environmental Earth Sciences, 2016, 75, 1.	1.3	22
66	Development of a conceptual framework of holistic risk assessment " Landfill as a particular type of contaminated land. Science of the Total Environment, 2016, 569-570, 815-829.	3.9	19
67	Air losses in compressed air tunnelling: a prediction model. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2016, 169, 140-147.	0.4	6
68	Control of saltwater intrusion by aquifer storage and recovery. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2016, 169, 148-155.	0.4	2
69	Removal of MTBE from a clay soil using electrokinetic technique. Environmental Technology (United Tj ETQq1 1 0.784314 rgBT /Overlo	1.2	8
70	Assessing impacts of sea level rise on seawater intrusion in a coastal aquifer with sloped shoreline boundary. Journal of Hydro-Environment Research, 2016, 11, 29-41.	1.0	27
71	Effect of Cement on Treatment of a Clay Soil Contaminated with Glycerol. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	36
72	An evolutionary approach to modelling the thermomechanical behaviour of unsaturated soils. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 539-557.	1.7	12

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73	A surrogate model for simulationâ€œoptimization of aquifer systems subjected to seawater intrusion. Journal of Hydrology, 2015, 523, 542-554.	2.3	68
74	Multi-objective Optimization of Different Management Scenarios to Control Seawater Intrusion in Coastal Aquifers. Water Resources Management, 2015, 29, 1843-1857.	1.9	60
75	Three Dimensional Simulation of Seawater Intrusion in a Regional Coastal Aquifer in UAE. Procedia Engineering, 2015, 119, 1153-1160.	1.2	24
76	Effect of Soil Density and Suction on the Elastic and Plastic Parameters of Unsaturated Silty Soil. International Journal of Geomechanics, 2015, 15, .	1.3	5
77	A New Evolutionary Approach to Geotechnical and Geo-Environmental Modelling. , 2015, , 483-499.		1
78	Quantitative and Qualitative Assessment of Seawater Intrusion in Wadi Ham under Different Pumping Scenarios. Journal of Hydrologic Engineering - ASCE, 2014, 19, 855-866.	0.8	30
79	Experimental and Numerical Study on Velocity Fields and Water Surface Profile in a Strongly-Curved 90Â° Open Channel Bend. Engineering Applications of Computational Fluid Mechanics, 2014, 8, 447-461.	1.5	44
80	Investigation on the mechanical properties of gypsum soil. Proceedings of Institution of Civil Engineers: Construction Materials, 2014, 167, 251-257.	0.7	2
81	Roscoe and Hvorslev Surfaces for Unsaturated Silty Soil. International Journal of Geomechanics, 2014, 14, 230-238.	1.3	11
82	An EPR-based self-learning approach to material modelling. Computers and Structures, 2014, 137, 63-71.	2.4	22
83	Literature review of baseline study for risk analysis â€œ The landfill leachate case. Environment International, 2014, 63, 149-162.	4.8	58
84	Lateral load bearing capacity modelling of piles in cohesive soils in undrained conditions: An intelligent evolutionary approach. Applied Soft Computing Journal, 2014, 24, 822-828.	4.1	33
85	Model tests on reinforced sloped embankment with denti-strip inclusions under monotonic loading. KSCE Journal of Civil Engineering, 2014, 18, 1342-1350.	0.9	4
86	Improving piping resistance using randomly distributed fibers. Geotextiles and Geomembranes, 2014, 42, 15-24.	2.3	27
87	Consolidation behavior of two fine-grained soils contaminated by glycerol and ethanol. Engineering Geology, 2014, 178, 102-108.	2.9	49
88	Numerical study of soil heterogeneity effects on contaminant transport in unsaturated soil (model) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Geomechanics, 2013, 37, 278-298.	1.7	16
89	Identification of coupling parameters between shear strength behaviour of compacted soils and chemicalâ€™s effects with an evolutionary-based data mining technique. Computers and Geotechnics, 2013, 48, 107-116.	2.3	10
90	Numerical implementation of EPR-based material models in finite element analysis. Computers and Structures, 2013, 118, 100-108.	2.4	22

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91	Stabilised expansive soil behaviour during wetting and drying. International Journal of Pavement Engineering, 2013, 14, 418-427.	2.2	60
92	Comparison Between Analytical and Numerical Methods in Evaluating the Pollution Transport in Porous Media. Geotechnical and Geological Engineering, 2013, 31, 93-101.	0.8	5
93	An EPR Approach to the Modeling of Civil and Geotechnical Engineering Systems. , 2013, , 311-326.		2
94	A Study on the Mechanical Behavior of a Fiber-Clay Composite with Natural Fiber. Geotechnical and Geological Engineering, 2013, 31, 501-510.	0.8	33
95	Strength of a clay soil and soil-cement mixture with resin. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2013, 166, 108-114.	0.7	10
96	EPR-based material modelling of soils considering volume changes. Computers and Geosciences, 2012, 48, 73-85.	2.0	31
97	Incorporating the concept of equivalent freshwater head in successive horizontal simulations of seawater intrusion in the Nile Delta aquifer, Egypt. Journal of Hydrology, 2012, 464-465, 186-198.	2.3	74
98	Analysis of behaviour of soils under cyclic loading using EPR-based finite element method. Finite Elements in Analysis and Design, 2012, 58, 53-65.	1.7	21
99	A simulation-optimization model to control seawater intrusion in coastal aquifers using abstraction/recharge wells. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 1757-1779.	1.7	41
100	Modeling Groundwater Flow and Seawater Intrusion in the Coastal Aquifer of Wadi Ham, UAE. Water Resources Management, 2012, 26, 751-774.	1.9	85
101	Probabilistic evaluation of seismic liquefaction potential in field conditions. Engineering Computations, 2011, 28, 675-700.	0.7	5
102	Modelling mechanical behaviour of rubber concrete using evolutionary polynomial regression. Engineering Computations, 2011, 28, 492-507.	0.7	29
103	Effect of Resin on the Strength of Soil-Cement Mixture. Journal of Materials in Civil Engineering, 2011, 23, 969-976.	1.3	46
104	Impact of sea level rise and over-pumping on seawater intrusion in coastal aquifers. Journal of Water and Climate Change, 2011, 2, 19-28.	1.2	26
105	Mechanical Behavior of a Clay Soil Reinforced with Nylon Fibers. Geotechnical and Geological Engineering, 2011, 29, 899-908.	0.8	62
106	A Cost-Effective Method to Control Seawater Intrusion in Coastal Aquifers. Water Resources Management, 2011, 25, 2755-2780.	1.9	98
107	Stochastic finite element modelling of water flow in variably saturated heterogeneous soils. International Journal for Numerical and Analytical Methods in Geomechanics, 2011, 35, 1389-1408.	1.7	25
108	An evolutionary based approach for assessment of earthquake-induced soil liquefaction and lateral displacement. Engineering Applications of Artificial Intelligence, 2011, 24, 142-153.	4.3	70

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109	Stochastic Finite-Element Approach to Quantify and Reduce Uncertainty in Pollutant Transport Modeling. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2011, 15, 208-215.	1.2	14
110	Numerical Modeling of Hydraulic Hysteresis in Unsaturated Soils. <i>Transport in Porous Media</i> , 2010, 85, 521-540.	1.2	3
111	Evaluation of liquefaction potential based on CPT results using evolutionary polynomial regression. <i>Computers and Geotechnics</i> , 2010, 37, 82-92.	2.3	58
112	A new approach for prediction of the stability of soil and rock slopes. <i>Engineering Computations</i> , 2010, 27, 878-893.	0.7	54
113	An evolutionary-based data mining technique for assessment of civil engineering systems. <i>Engineering Computations</i> , 2008, 25, 500-517.	0.7	57
114	Critical state for overconsolidated unsaturated silty soil. <i>Canadian Geotechnical Journal</i> , 2008, 45, 408-420.	1.4	48
115	Mathematical Models to Control Saltwater Intrusion in Coastal Aquifers. , 2008, , .		10
116	Numerical Modeling of Contaminant Transport through Soils: Case Study. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008, 134, 214-230.	1.5	10
117	Patents on Contaminated Land. <i>Recent Patents on Engineering</i> , 2008, 2, 147-156.	0.3	1
118	Variation of Degree of Saturation in Unsaturated Silty Soil. , 2007, , 337-343.		1
119	A new genetic programming model for predicting settlement of shallow foundations. <i>Canadian Geotechnical Journal</i> , 2007, 44, 1462-1473.	1.4	98
120	Finite difference approach for consolidation with variable compressibility and permeability. <i>Computers and Geotechnics</i> , 2007, 34, 41-52.	2.3	64
121	Finite element modeling of contaminant transport in soils including the effect of chemical reactions. <i>Journal of Hazardous Materials</i> , 2007, 143, 690-701.	6.5	40
122	Evaluation of liquefaction induced lateral displacements using genetic programming. <i>Computers and Geotechnics</i> , 2006, 33, 222-233.	2.3	136
123	Triaxial tests of sand reinforced with 3D inclusions. <i>Geotextiles and Geomembranes</i> , 2006, 24, 201-209.	2.3	94
124	Analysis of geosynthetic reinforced soil structures with orthogonal anisotropy. <i>Geotechnical and Geological Engineering</i> , 2006, 24, 903-917.	0.8	3
125	Effect of compaction pressure on consolidation behaviour of unsaturated silty soil. <i>Canadian Geotechnical Journal</i> , 2004, 41, 540-550.	1.4	38
126	Stabilization of a clay soil by injection of different ions. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 0, , 1-51.	0.7	2