

Amir H Alavi

List of Publications by Year in descending order

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182
papers

14,609
citations

28190

55
h-index

20307

116
g-index

188
all docs

188
docs citations

188
times ranked

9347
citing authors

#	ARTICLE	IF	CITATIONS
1	Cuckoo search algorithm: a metaheuristic approach to solve structural optimization problems. <i>Engineering With Computers</i> , 2013, 29, 17-35.	3.5	1,671
2	Krill herd: A new bio-inspired optimization algorithm. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 4831-4845.	1.7	1,537
3	Machine learning in geosciences and remote sensing. <i>Geoscience Frontiers</i> , 2016, 7, 3-10.	4.3	716
4	Firefly algorithm with chaos. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013, 18, 89-98.	1.7	702
5	Mixed variable structural optimization using Firefly Algorithm. <i>Computers and Structures</i> , 2011, 89, 2325-2336.	2.4	673
6	Bat algorithm for constrained optimization tasks. <i>Neural Computing and Applications</i> , 2013, 22, 1239-1255.	3.2	442
7	Internet of Things-enabled smart cities: State-of-the-art and future trends. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 129, 589-606.	2.5	264
8	A new multi-gene genetic programming approach to nonlinear system modeling. Part I: materials and structural engineering problems. <i>Neural Computing and Applications</i> , 2012, 21, 171-187.	3.2	246
9	Nonlinear Genetic-Based Models for Prediction of Flow Number of Asphalt Mixtures. <i>Journal of Materials in Civil Engineering</i> , 2011, 23, 248-263.	1.3	235
10	An effective krill herd algorithm with migration operator in biogeography-based optimization. <i>Applied Mathematical Modelling</i> , 2014, 38, 2454-2462.	2.2	213
11	Prediction of principal ground-motion parameters using a hybrid method coupling artificial neural networks and simulated annealing. <i>Computers and Structures</i> , 2011, 89, 2176-2194.	2.4	208
12	A robust data mining approach for formulation of geotechnical engineering systems. <i>Engineering Computations</i> , 2011, 28, 242-274.	0.7	207
13	Multi-stage genetic programming: A new strategy to nonlinear system modeling. <i>Information Sciences</i> , 2011, 181, 5227-5239.	4.0	198
14	Stud krill herd algorithm. <i>Neurocomputing</i> , 2014, 128, 363-370.	3.5	194
15	Chaotic cuckoo search. <i>Soft Computing</i> , 2016, 20, 3349-3362.	2.1	190
16	A new predictive model for compressive strength of HPC using gene expression programming. <i>Advances in Engineering Software</i> , 2012, 45, 105-114.	1.8	183
17	An evolutionary approach for modeling of shear strength of RC deep beams. <i>Materials and Structures/Materiaux Et Constructions</i> , 2013, 46, 2109-2119.	1.3	181
18	Hybrid krill herd algorithm with differential evolution for global numerical optimization. <i>Neural Computing and Applications</i> , 2014, 25, 297-308.	3.2	160

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19	An improved NSGA-III algorithm with adaptive mutation operator for Big Data optimization problems. <i>Future Generation Computer Systems</i> , 2018, 88, 571-585.	4.9	160
20	Formulation of flow number of asphalt mixes using a hybrid computational method. <i>Construction and Building Materials</i> , 2011, 25, 1338-1355.	3.2	158
21	A new multi-gene genetic programming approach to non-linear system modeling. Part II: geotechnical and earthquake engineering problems. <i>Neural Computing and Applications</i> , 2012, 21, 189-201.	3.2	153
22	Behavior of crossover operators in NSGA-III for large-scale optimization problems. <i>Information Sciences</i> , 2020, 509, 470-487.	4.0	151
23	Opposition-based krill herd algorithm with Cauchy mutation and position clamping. <i>Neurocomputing</i> , 2016, 177, 147-157.	3.5	148
24	A comprehensive review of krill herd algorithm: variants, hybrids and applications. <i>Artificial Intelligence Review</i> , 2019, 51, 119-148.	9.7	136
25	A new improved krill herd algorithm for global numerical optimization. <i>Neurocomputing</i> , 2014, 138, 392-402.	3.5	132
26	Monarch butterfly optimization: A comprehensive review. <i>Expert Systems With Applications</i> , 2021, 168, 114418.	4.4	131
27	Elephant Herding Optimization: Variants, Hybrids, and Applications. <i>Mathematics</i> , 2020, 8, 1415.	1.1	127
28	A novel improved accelerated particle swarm optimization algorithm for global numerical optimization. <i>Engineering Computations</i> , 2014, 31, 1198-1220.	0.7	124
29	A hybrid method based on krill herd and quantum-behaved particle swarm optimization. <i>Neural Computing and Applications</i> , 2016, 27, 989-1006.	3.2	123
30	Multi expression programming: a new approach to formulation of soil classification. <i>Engineering With Computers</i> , 2010, 26, 111-118.	3.5	119
31	A chaotic particle-swarm krill herd algorithm for global numerical optimization. <i>Kybernetes</i> , 2013, 42, 962-978.	1.2	114
32	Novel Approach to Strength Modeling of Concrete under Triaxial Compression. <i>Journal of Materials in Civil Engineering</i> , 2012, 24, 1132-1143.	1.3	111
33	Metaheuristic Algorithms in Modeling and Optimization. , 2013, , 1-24.		110
34	New formulation for compressive strength of CFRP confined concrete cylinders using linear genetic programming. <i>Materials and Structures/Materiaux Et Constructions</i> , 2010, 43, 963-983.	1.3	102
35	A hybrid computational approach to derive new ground-motion prediction equations. <i>Engineering Applications of Artificial Intelligence</i> , 2011, 24, 717-732.	4.3	102
36	A new hybrid method based on krill herd and cuckoo search for global optimisation tasks. <i>International Journal of Bio-Inspired Computation</i> , 2016, 8, 286.	0.6	101

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37	Continuous health monitoring of pavement systems using smart sensing technology. <i>Construction and Building Materials</i> , 2016, 114, 719-736.	3.2	100
38	Modeling of maximum dry density and optimum moisture content of stabilized soil using artificial neural networks. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 368-379.	1.1	98
39	Empirical modeling of plate load test moduli of soil via gene expression programming. <i>Computers and Geotechnics</i> , 2011, 38, 281-286.	2.3	94
40	An intelligent structural damage detection approach based on self-powered wireless sensor data. <i>Automation in Construction</i> , 2016, 62, 24-44.	4.8	89
41	Piezoelectric Sensing Techniques in Structural Health Monitoring: A State-of-the-Art Review. <i>Sensors</i> , 2020, 20, 3730.	2.1	88
42	Learning-based elephant herding optimization algorithm for solving numerical optimization problems. <i>Knowledge-Based Systems</i> , 2020, 195, 105675.	4.0	87
43	A new prediction model for the load capacity of castellated steel beams. <i>Journal of Constructional Steel Research</i> , 2011, 67, 1096-1105.	1.7	85
44	An overview of smartphone technology for citizen-centered, real-time and scalable civil infrastructure monitoring. <i>Future Generation Computer Systems</i> , 2019, 93, 651-672.	4.9	84
45	Energy-based numerical models for assessment of soil liquefaction. <i>Geoscience Frontiers</i> , 2012, 3, 541-555.	4.3	82
46	Permanent deformation analysis of asphalt mixtures using soft computing techniques. <i>Expert Systems With Applications</i> , 2011, 38, 6081-6100.	4.4	79
47	New machine learning-based prediction models for fracture energy of asphalt mixtures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 135, 438-451.	2.5	77
48	Nonlinear modeling of shear strength of SFRC beams using linear genetic programming. <i>Structural Engineering and Mechanics</i> , 2011, 38, 1-25.	1.0	77
49	Design equations for prediction of pressuremeter soil deformation moduli utilizing expression programming systems. <i>Neural Computing and Applications</i> , 2013, 23, 1771-1786.	3.2	72
50	Error Metrics and Performance Fitness Indicators for Artificial Intelligence and Machine Learning in Engineering and Sciences. <i>Architecture, Structures and Construction</i> , 2023, 3, 499-517.	0.7	72
51	Detection of fatigue cracking in steel bridge girders: A support vector machine approach. <i>Archives of Civil and Mechanical Engineering</i> , 2017, 17, 609-622.	1.9	67
52	Artificial intelligence-enabled smart mechanical metamaterials: advent and future trends. <i>International Materials Reviews</i> , 2021, 66, 365-393.	9.4	63
53	Linear genetic programming for shear strength prediction of reinforced concrete beams without stirrups. <i>Applied Soft Computing Journal</i> , 2014, 19, 112-120.	4.1	60
54	Formulation of shear strength of slender RC beams using gene expression programming, part I: Without shear reinforcement. <i>Automation in Construction</i> , 2014, 42, 112-121.	4.8	59

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55	Genetic programming and orthogonal least squares: a hybrid approach to modeling the compressive strength of CFRP-confined concrete cylinders. <i>Journal of Mechanics of Materials and Structures</i> , 2010, 5, 735-753.	0.4	58
56	New prediction models for concrete ultimate strength under true-triaxial stress states: An evolutionary approach. <i>Advances in Engineering Software</i> , 2017, 110, 55-68.	1.8	58
57	An evolutionary computational approach for formulation of compression index of fine-grained soils. <i>Engineering Applications of Artificial Intelligence</i> , 2014, 33, 58-68.	4.3	57
58	Real-Time Detection of Cracks on Concrete Bridge Decks Using Deep Learning in the Frequency Domain. <i>Engineering</i> , 2021, 7, 1786-1796.	3.2	56
59	Artificial intelligence in seismology: Advent, performance and future trends. <i>Geoscience Frontiers</i> , 2020, 11, 739-744.	4.3	54
60	Internet of things-based fog and cloud computing technology for smart traffic monitoring. <i>Internet of Things (Netherlands)</i> , 2021, 14, 100175.	4.9	54
61	LÃ©vy-Flight Krill Herd Algorithm. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-14.	0.6	52
62	Fatigue cracking detection in steel bridge girders through a self-powered sensing concept. <i>Journal of Constructional Steel Research</i> , 2017, 128, 19-38.	1.7	51
63	A comprehensive review of self-powered sensors in civil infrastructure: State-of-the-art and future research trends. <i>Engineering Structures</i> , 2021, 234, 111963.	2.6	49
64	A Multi-Stage Krill Herd Algorithm for Global Numerical Optimization. <i>International Journal on Artificial Intelligence Tools</i> , 2016, 25, 1550030.	0.7	48
65	A web server for comparative analysis of single-cell RNA-seq data. <i>Nature Communications</i> , 2018, 9, 4768.	5.8	48
66	Towards automatic detection of atrial fibrillation: A hybrid computational approach. <i>Computers in Biology and Medicine</i> , 2010, 40, 919-930.	3.9	47
67	Krill herd algorithm for optimum design of truss structures. <i>International Journal of Bio-Inspired Computation</i> , 2013, 5, 281.	0.6	47
68	Damage detection using self-powered wireless sensor data: An evolutionary approach. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 82, 254-283.	2.5	46
69	Development of prediction models for shear strength of SFRCB using a machine learning approach. <i>Neural Computing and Applications</i> , 2019, 31, 2085-2094.	3.2	46
70	New Ground-Motion Prediction Equations Using Multi Expression Programming. <i>Journal of Earthquake Engineering</i> , 2011, 15, 511-536.	1.4	45
71	Buckling analysis of graphene-reinforced mechanical metamaterial beams with periodic webbing patterns. <i>International Journal of Engineering Science</i> , 2018, 131, 1-18.	2.7	44
72	Genetic-based modeling of uplift capacity of suction caissons. <i>Expert Systems With Applications</i> , 2011, 38, 12608-12618.	4.4	43

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73	Genetic programming in civil engineering: advent, applications and future trends. <i>Artificial Intelligence Review</i> , 2021, 54, 1863-1885.	9.7	43
74	Multifunctional meta-tribomaterial nanogenerators for energy harvesting and active sensing. <i>Nano Energy</i> , 2021, 86, 106074.	8.2	43
75	Formulation of elastic modulus of concrete using linear genetic programming. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 1273-1278.	0.7	40
76	Explicit formulation of bearing capacity of shallow foundations on rock masses using artificial neural networks: application and supplementary studies. <i>Environmental Earth Sciences</i> , 2015, 73, 3417-3431.	1.3	40
77	Formulation of shear strength of slender RC beams using gene expression programming, part II: With shear reinforcement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 95, 367-376.	2.5	40
78	An empirical model for shear capacity of RC deep beams using genetic-simulated annealing. <i>Archives of Civil and Mechanical Engineering</i> , 2013, 13, 354-369.	1.9	39
79	New design equations for estimation of ultimate bearing capacity of shallow foundations resting on rock masses. <i>Geoscience Frontiers</i> , 2016, 7, 91-99.	4.3	37
80	Nonlinear neural-based modeling of soil cohesion intercept. <i>KSCE Journal of Civil Engineering</i> , 2011, 15, 831-840.	0.9	36
81	Behavior appraisal of steel semi-rigid joints using Linear Genetic Programming. <i>Journal of Constructional Steel Research</i> , 2009, 65, 1738-1750.	1.7	34
82	Numerical modeling of stress-strain behavior of sand under cyclic loading. <i>Engineering Geology</i> , 2010, 116, 53-72.	2.9	34
83	AN INTRODUCTION OF KRILL HERD ALGORITHM FOR ENGINEERING OPTIMIZATION. <i>Journal of Civil Engineering and Management</i> , 2015, 22, 302-310.	1.9	34
84	Prediction of maximum dry density and optimum moisture content of stabilised soil using RBF neural networks. <i>IES Journal Part A: Civil and Structural Engineering</i> , 2009, 2, 98-106.	0.4	33
85	Mechanical metamaterial piezoelectric nanogenerator (MM-PENG): Design principle, modeling and performance. <i>Materials and Design</i> , 2020, 187, 108214.	3.3	33
86	Modeling of compressive strength of HPC mixes using a combined algorithm of genetic programming and orthogonal least squares. <i>Structural Engineering and Mechanics</i> , 2010, 36, 225-241.	1.0	33
87	A self-powered surface sensing approach for detection of bottom-up cracking in asphalt concrete pavements: Theoretical/numerical modeling. <i>Construction and Building Materials</i> , 2017, 144, 728-746.	3.2	32
88	A new approach for damage detection in asphalt concrete pavements using battery-free wireless sensors with non-constant injection rates. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 110, 217-229.	2.5	32
89	Structural health monitoring of steel frames using a network of self-powered strain and acceleration sensors: A numerical study. <i>Automation in Construction</i> , 2018, 85, 344-357.	4.8	32
90	New machine learning prediction models for compressive strength of concrete modified with glass cullet. <i>Engineering Computations</i> , 2019, 36, 876-898.	0.7	32

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91	Formulation of uplift capacity of suction caissons using multi expression programming. KSCE Journal of Civil Engineering, 2011, 15, 363-373.	0.9	31
92	Developing a prediction model for rutting depth of asphalt mixtures using gene expression programming. Construction and Building Materials, 2021, 267, 120543.	3.2	31
93	Numerical modeling of concrete strength under multiaxial confinement pressures using linear genetic programming. Automation in Construction, 2013, 36, 136-144.	4.8	29
94	Impact of new multiple twisted tapes on treatment of solar heat exchanger. European Physical Journal Plus, 2022, 137, 1.	1.2	29
95	Deriving an intelligent model for soil compression index utilizing multi-gene genetic programming. Environmental Earth Sciences, 2016, 75, 1.	1.3	28
96	Nonlinear genetic-based simulation of soil shear strength parameters. Journal of Earth System Science, 2011, 120, 1001-1022.	0.6	26
97	Smartphone-based molecular sensing for advanced characterization of asphalt concrete materials. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107212.	2.5	26
98	A New Structural Health Monitoring Approach Based on Smartphone Measurements of Magnetic Field Intensity. IEEE Instrumentation and Measurement Magazine, 2021, 24, 49-58.	1.2	26
99	Multifunctional Triboelectric Nanogenerator-Enabled Structural Elements for Next Generation Civil Infrastructure Monitoring Systems. Advanced Functional Materials, 2021, 31, 2105825.	7.8	26
100	High-performance fiber reinforced concrete as a repairing material to normal concrete structures: Experiments, numerical simulations and a machine learning-based prediction model. Construction and Building Materials, 2019, 223, 1167-1181.	3.2	25
101	Simulated Annealing-Based Krill Herd Algorithm for Global Optimization. Abstract and Applied Analysis, 2013, 2013, 1-11.	0.3	22
102	Post-buckling response of non-uniform cross-section bilaterally constrained beams. Mechanics Research Communications, 2016, 78, 42-50.	1.0	21
103	High-precision modeling of uplift capacity of suction caissons using a hybrid computational method. Geomechanics and Engineering, 2010, 2, 253-280.	0.9	21
104	Magnetic capsule triboelectric nanogenerators. Scientific Reports, 2022, 12, 89.	1.6	21
105	Patient-Specific Self-Powered Metamaterial Implants for Detecting Bone Healing Progress. Advanced Functional Materials, 2022, 32, .	7.8	21
106	Self-powered piezo-floating-gate sensors for health monitoring of steel plates. Engineering Structures, 2017, 148, 584-601.	2.6	20
107	Structural Optimization Using Krill Herd Algorithm. , 2013, , 335-349.		19
108	A data mining approach to compressive strength of CFRP-confined concrete cylinders. Structural Engineering and Mechanics, 2010, 36, 759-783.	1.0	19

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109	Robust attenuation relations for peak time-domain parameters of strong ground motions. Environmental Earth Sciences, 2012, 67, 53-70.	1.3	18
110	An Intelligent Model for the Prediction of Bond Strength of FRP Bars in Concrete: A Soft Computing Approach. Technologies, 2019, 7, 42.	3.0	18
111	A Discussion on "Genetic programming for retrieving missing information in wave records along the west coast of India" [Applied Ocean Research 2007; 29 (3): 99-111]. Applied Ocean Research, 2008, 30, 338-339.	1.8	17
112	Applications of Computational Intelligence in Behavior Simulation of Concrete Materials. Studies in Computational Intelligence, 2011, , 221-243.	0.7	17
113	New design equations for assessment of load carrying capacity of castellated steel beams: a machine learning approach. Neural Computing and Applications, 2013, 23, 119-131.	3.2	17
114	Multigene Genetic Programming for Estimation of Elastic Modulus of Concrete. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	17
115	An innovative approach for modeling of hysteretic energy demand in steel moment resisting frames. Neural Computing and Applications, 2014, 24, 1285-1291.	3.2	17
116	A computational intelligence-based approach for short-term traffic flow prediction. Expert Systems, 2012, 29, 124-142.	2.9	15
117	A hybrid computational approach to formulate soil deformation moduli obtained from PLT. Engineering Geology, 2011, 123, 324-332.	2.9	15
118	Formulation of secant and reloading soil deformation moduli using multi expression programming. Engineering Computations, 2012, 29, 173-197.	0.7	15
119	Small and large deformation models of post-buckled beams under lateral constraints. Mathematics and Mechanics of Solids, 2019, 24, 386-405.	1.5	15
120	Next-generation remote sensing and prediction of sand and dust storms: State-of-the-art and future trends. International Journal of Remote Sensing, 2021, 42, 5277-5316.	1.3	15
121	Nonlinear modeling of soil deformation modulus through LGP-based interpretation of pressuremeter test results. Engineering Applications of Artificial Intelligence, 2012, 25, 1437-1449.	4.3	14
122	Damage growth detection in steel plates: Numerical and experimental studies. Engineering Structures, 2016, 128, 124-138.	2.6	14
123	A Shannon entropy approach for structural damage identification based on self-powered sensor data. Engineering Structures, 2019, 200, 109619.	2.6	14
124	A new approach for crack detection in plate structures using an integrated extended finite element and enhanced vibrating particles system optimization methods. Structures, 2021, 29, 638-651.	1.7	14
125	A new hybrid method based on krill herd and cuckoo search for global optimisation tasks. International Journal of Bio-Inspired Computation, 2016, 8, 286.	0.6	14
126	Discussion on "Soft computing approach for real-time estimation of missing wave heights" by S.N. Londhe [Ocean Engineering 35 (2008) 1080-1089]. Ocean Engineering, 2010, 37, 1239-1240.	1.9	13

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127	Expression Programming Techniques for Formulation of Structural Engineering Systems. , 2013, , 439-455.		13
128	Towards the prediction of business failure via computational intelligence techniques. Expert Systems, 2011, 28, 209-226.	2.9	12
129	A NEW DESIGN EQUATION FOR PREDICTION OF ULTIMATE BEARING CAPACITY OF SHALLOW FOUNDATION ON GRANULAR SOILS. Journal of Civil Engineering and Management, 2014, 19, S78-S90.	1.9	12
130	Formulation of soil angle of shearing resistance using a hybrid GP and OLS method. Engineering With Computers, 2013, 29, 37-53.	3.5	11
131	A new approach for modeling of flow number of asphalt mixtures. Archives of Civil and Mechanical Engineering, 2017, 17, 326-335.	1.9	11
132	Micro-composite films constrained by irregularly bilateral walls: A size-dependent post-buckling analysis. Composite Structures, 2018, 195, 219-231.	3.1	11
133	A deep learning approach to predict Hamburg rutting curve. Road Materials and Pavement Design, 2021, 22, 2159-2180.	2.0	11
134	Next-Generation Models for Evaluation of the Flow Number of Asphalt Mixtures. International Journal of Geomechanics, 2015, 15, .	1.3	10
135	Damage localization and quantification in gusset plates: A battery-free sensing approach. Structural Control and Health Monitoring, 2018, 25, e2158.	1.9	10
136	An energy harvesting and damage sensing solution based on postbuckling response of nonuniform cross-section beams. Structural Control and Health Monitoring, 2018, 25, e2052.	1.9	10
137	Size-dependent buckling instability and recovery of beam-like, architected microstructures. Materials and Design, 2019, 162, 405-417.	3.3	10
138	A Genetic Programming-Based Approach for the Performance Characteristics Assessment of Stabilized Soil. , 2012, , 343-376.		9
139	A Novel Cuckoo Search with Chaos Theory and Elitism Scheme. , 2014, , .		8
140	Integration of a prototype wireless communication system with micro-electromechanical temperature and humidity sensor for concrete pavement health monitoring. Cogent Engineering, 2015, 2, 1014278.	1.1	8
141	An explainable prediction framework for engineering problems: case studies in reinforced concrete members modeling. Engineering Computations, 2022, 39, 609-626.	0.7	8
142	A Hybrid PBIL-Based Krill Herd Algorithm. , 2015, , .		7
143	Study of Lagrangian and Evolutionary Parameters in Krill Herd Algorithm. Adaptation, Learning, and Optimization, 2015, , 111-128.	0.5	7
144	Electrochemical study of the inhibition effect of cow bone ash on the corrosion resistance of mild steel in artificial concrete pore solution. Cogent Engineering, 2019, 6, .	1.1	7

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145	Evolutionary computation for design and characterization of nanoscale metastructures. Applied Materials Today, 2020, 21, 100816.	2.3	7
146	Prediction of the Vaccine-derived Poliovirus Outbreak Incidence: A Hybrid Machine Learning Approach. Scientific Reports, 2020, 10, 5058.	1.6	6
147	Comment on "Sivapragasam C, Maheswaran R, Venkatesh V. 2008. Genetic programming approach for flood routing in natural channels. Hydrological Processes 22: 623-628". Hydrological Processes, 2010, 24, 798-799.	1.1	5
148	Verification of data integrity and co-operative loss recovery for secure data storage in cloud computing. Cogent Engineering, 2019, 6, .	1.1	5
149	Self-charging and self-monitoring smart civil infrastructure systems: current practice and future trends. , 2019, , .		5
150	A Hybrid Meta-Heuristic Method Based on Firefly Algorithm and Krill Herd. Advances in Computer and Electrical Engineering Book Series, 2016, , 505-524.	0.2	5
151	Soft Computing Methods in Civil Engineering. Scientific World Journal, The, 2015, 2015, 1-2.	0.8	4
152	An energy harvesting solution based on the post-buckling response of non-prismatic slender beams. Proceedings of SPIE, 2017, , .	0.8	4
153	A Novel Data Reduction Approach for Structural Health Monitoring Systems. Sensors, 2019, 19, 4823.	2.1	4
154	Studying the Feasibility of Postoperative Monitoring of Spinal Fusion Progress Using a Self-Powered Fowler-Nordheim Sensor-Data-Logger. IEEE Transactions on Biomedical Engineering, 2022, 69, 710-717.	2.5	4
155	Bond strength prediction of FRP-bar reinforced concrete. , 2019, , .		4
156	Real time substation distributed control system simulator development based on IEC 61850 standard for a sample substation (case study: Sheikh bahayi substation 400/230/63KV). , 2013, , .		3
157	An optimal event-triggered tracking control for battery-based wireless sensor networks. , 2016, , .		3
158	A new method for detection of fatigue cracking in steel bridge girders using self-powered wireless sensors. , 2017, , .		3
159	Structural damage detection using rate of total energy. Measurement: Journal of the International Measurement Confederation, 2019, 133, 91-98.	2.5	3
160	Interactive personalized recommendation systems for human health. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 3209-3212.	3.3	3
161	A molecular sensing method integrated with support vector machines to characterize asphalt mixtures. Measurement: Journal of the International Measurement Confederation, 2021, 179, 109528.	2.5	3
162	Artificial intelligence-based smart engineering education. , 2020, , .		3

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163	Discussion on "Models to predict the deformation modulus and the coefficient of subgrade reaction for earth filling structures" by Ismail DinÂşer [Adv. Eng. Software 42 (2011) 160â€“171]. Advances in Engineering Software, 2012, 52, 44-46.	1.8	2
164	Discussion on "Prediction of shear strength parameters of soils using artificial neural networks and multivariate regression methods" Engineering Geology, 2012, 137-138, 107-108.	2.9	2
165	THE NEXT-GENERATION CONSTITUTIVE CORRELATIONS FOR SIMULATION OF CYCLIC STRESS-STRAIN BEHAVIOUR OF SAND. Journal of Civil Engineering and Management, 2014, 21, 31-44.	1.9	2
166	Structural health monitoring using a hybrid network of self-powered accelerometer and strain sensors. Proceedings of SPIE, 2017, , .	0.8	2
167	An enhanced adaptive globalâ€best harmony search algorithm for continuous optimization problems. Engineering Reports, 2020, 2, e12264.	0.9	2
168	An evolutionary computational method to formulate the response of unbonded concrete overlays to temperature loading. Engineering Computations, 2022, 39, 523-540.	0.7	2
169	Damage Detection in Pavement Structures Using Self-powered Sensors. RILEM Bookseries, 2016, , 665-671.	0.2	2
170	Advanced sensing and monitoring systems for smart cities. , 2022, , 1-26.		2
171	Advanced multifunctional structures for future smart cities. , 2022, , 29-52.		2
172	Super compressible multifunctional metamaterial concrete. , 2022, , .		2
173	Discussion on "Alternative data-driven methods to estimate wind from waves by inverse modeling" by Mansi Daga, M. C. Deo [Natural Hazards (2008) NHAZ 524, Article 9299, DOI 10.1007/s11069-008-9299-2]. Natural Hazards, 2010, 52, 671-673.	1.6	1
174	A novel self-powered approach for structural health monitoring. , 2015, , .		1
175	An integrated data mining approach to predict electrical energy consumption. International Journal of Bio-Inspired Computation, 2021, 17, 142.	0.6	1
176	Discussion on "Predicting the shear strength of reinforced concrete beams using artificial neural networks" by M.Y. Mansour, M. Dicleli, J.Y. Lee, J. Zhang [Eng Struct 26 (2004) 781â€“799]. Engineering Structures, 2009, 31, 2801.	2.6	0
177	Reply to Comments on "Empirical modelling of plate load test moduli of soil via gene expression programming" by Ali Mollahasani, Amir Hossein Alavi, Amir Hossein Gandomi [Computers and Geotechnics 38 (2011) 281â€“286]. Computers and Geotechnics, 2012, 39, 73-74.	2.3	0
178	Advances of Artificial Intelligence in Mechanical Engineering. Advances in Mechanical Engineering, 2014, 6, 843730.	0.8	0
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