

Siamak Talatahari

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

5,707
citations

33
h-index

74
g-index

122
ext. papers

6,775
ext. citations

3.1
avg, IF

6.67
L-index

#	Paper	IF	Citations
114	A novel heuristic optimization method: charged system search. <i>Acta Mechanica</i> , 2010 , 213, 267-289	2.1	811
113	Firefly algorithm with chaos. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 89-98	3.7	558
112	Bat algorithm for constrained optimization tasks. <i>Neural Computing and Applications</i> , 2013 , 22, 1239-1254	4.8	336
111	Particle swarm optimizer, ant colony strategy and harmony search scheme hybridized for optimization of truss structures. <i>Computers and Structures</i> , 2009 , 87, 267-283	4.5	336
110	Size optimization of space trusses using Big BangBig Crunch algorithm. <i>Computers and Structures</i> , 2009 , 87, 1129-1140	4.5	264
109	Chaos-enhanced accelerated particle swarm optimization. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 327-340	3.7	259
108	An improved ant colony optimization for constrained engineering design problems. <i>Engineering Computations</i> , 2010 , 27, 155-182	1.4	212
107	Optimum design of skeletal structures using imperialist competitive algorithm. <i>Computers and Structures</i> , 2010 , 88, 1220-1229	4.5	201
106	Imperialist competitive algorithm combined with chaos for global optimization. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 1312-1319	3.7	183
105	A particle swarm ant colony optimization for truss structures with discrete variables. <i>Journal of Constructional Steel Research</i> , 2009 , 65, 1558-1568	3.8	175
104	Optimal design of skeletal structures via the charged system search algorithm. <i>Structural and Multidisciplinary Optimization</i> , 2010 , 41, 893-911	3.6	163
103	Charged system search for optimal design of frame structures. <i>Applied Soft Computing Journal</i> , 2012 , 12, 382-393	7.5	112
102	Design optimization of truss structures using cuckoo search algorithm. <i>Structural Design of Tall and Special Buildings</i> , 2013 , 22, 1330-1349	1.8	103
101	Coupled eagle strategy and differential evolution for unconstrained and constrained global optimization. <i>Computers and Mathematics With Applications</i> , 2012 , 63, 191-200	2.7	100
100	Chaotic swarming of particles: A new method for size optimization of truss structures. <i>Advances in Engineering Software</i> , 2014 , 67, 136-147	3.6	82
99	Optimal design of Schwedler and ribbed domes via hybrid Big BangBig Crunch algorithm. <i>Journal of Constructional Steel Research</i> , 2010 , 66, 412-419	3.8	78
98	An improved ant colony optimization for the design of planar steel frames. <i>Engineering Structures</i> , 2010 , 32, 864-873	4.7	73

97	Metaheuristic Algorithms in Modeling and Optimization 2013 , 1-24		71
96	A multi-stage particle swarm for optimum design of truss structures. <i>Neural Computing and Applications</i> , 2013 , 23, 1297-1309	4.8	67
95	Performance-based seismic design of steel frames using ant colony optimization. <i>Journal of Constructional Steel Research</i> , 2010 , 66, 566-574	3.8	62
94	Chaos Game Optimization: a novel metaheuristic algorithm. <i>Artificial Intelligence Review</i> , 2021 , 54, 917-1094	4.9	62
93	Optimum design of tower structures using Firefly Algorithm. <i>Structural Design of Tall and Special Buildings</i> , 2014 , 23, 350-361	1.8	61
92	Parameter identification of Bouc-Wen model for MR fluid dampers using adaptive charged system search optimization. <i>Journal of Mechanical Science and Technology</i> , 2012 , 26, 2523-2534	1.6	53
91	Upgraded Whale Optimization Algorithm for fuzzy logic based vibration control of nonlinear steel structure. <i>Engineering Structures</i> , 2019 , 192, 53-70	4.7	49
90	Krill herd algorithm for optimum design of truss structures. <i>International Journal of Bio-Inspired Computation</i> , 2013 , 5, 281	2.9	47
89	Charged system search for optimum grillage system design using the LRFD-AISC code. <i>Journal of Constructional Steel Research</i> , 2010 , 66, 767-771	3.8	47
88	An enhanced charged system search for configuration optimization using the concept of fields of forces. <i>Structural and Multidisciplinary Optimization</i> , 2011 , 43, 339-351	3.6	45
87	Chaotic imperialist competitive algorithm for optimum design of truss structures. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 46, 355-367	3.6	44
86	Optimum design of frame structures using the Eagle Strategy with Differential Evolution. <i>Engineering Structures</i> , 2015 , 91, 16-25	4.7	42
85	Geometry and topology optimization of geodesic domes using charged system search. <i>Structural and Multidisciplinary Optimization</i> , 2011 , 43, 215-229	3.6	42
84	Optimization of constrained mathematical and engineering design problems using chaos game optimization. <i>Computers and Industrial Engineering</i> , 2020 , 145, 106560	6.4	42
83	Hybrid charged system search and particle swarm optimization for engineering design problems. <i>Engineering Computations</i> , 2011 , 28, 423-440	1.4	35
82	Semi-active direct control method for seismic alleviation of structures using MR dampers. <i>Structural Control and Health Monitoring</i> , 2013 , 20, 1021-1042	4.5	33
81	Hybrid Algorithm of Harmony Search, Particle Swarm and Ant Colony for Structural Design Optimization. <i>Studies in Computational Intelligence</i> , 2009 , 159-198	0.8	33
80	Optimum design of fuzzy controller using hybrid ant lion optimizer and Jaya algorithm. <i>Artificial Intelligence Review</i> , 2020 , 53, 1553-1584	9.7	33

79	Application of ant colony optimization to optimal design of open channels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009 , 47, 656-665	1.9	29
78	NEW DESIGN EQUATIONS FOR ELASTIC MODULUS OF CONCRETE USING MULTI EXPRESSION PROGRAMMING. <i>Journal of Civil Engineering and Management</i> , 2015 , 21, 761-774	3	28
77	A hybrid cuckoo harmony search algorithm for optimal design of water distribution systems. <i>Journal of Hydroinformatics</i> , 2016 , 18, 544-563	2.6	26
76	Crystal Structure Algorithm (CryStAl): A Metaheuristic Optimization Method. <i>IEEE Access</i> , 2021 , 9, 71244-71261	3.5	25
75	Optimum design of gravity and reinforced retaining walls using enhanced charged system search algorithm. <i>KSCE Journal of Civil Engineering</i> , 2014 , 18, 1464-1469	1.9	24
74	Stochastic paint optimizer: theory and application in civil engineering. <i>Engineering With Computers</i> , 2020 , 1	4.5	23
73	Regional bivariate modeling of droughts using L-comoments and copulas. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 1199-1210	3.5	22
72	Tribe-charged system search for parameter configuration of nonlinear systems with large search domains. <i>Engineering Optimization</i> , 2021 , 53, 18-31	2	22
71	Optimal tuning of fuzzy parameters for structural motion control using multiverse optimizer. <i>Structural Design of Tall and Special Buildings</i> , 2019 , 28, e1652	1.8	21
70	Engineering design optimization using chaotic enhanced charged system search algorithms. <i>Acta Mechanica</i> , 2012 , 223, 2269-2285	2.1	21
69	Optimum Design of Gravity Retaining Walls Using Charged System Search Algorithm. <i>Mathematical Problems in Engineering</i> , 2012 , 2012, 1-10	1.1	21
68	Material Generation Algorithm: A Novel Metaheuristic Algorithm for Optimization of Engineering Problems. <i>Processes</i> , 2021 , 9, 859	2.9	21
67	Meta-Heuristic Algorithms for Hydrologic Frequency Analysis. <i>Water Resources Management</i> , 2011 , 25, 1855-1879	3.7	19
66	Optimum design of steel frames with semi-rigid connections using Big Bang-Big Crunch method. <i>Steel and Composite Structures</i> , 2013 , 14, 431-451		19
65	Parameter estimation of copula functions using an optimization-based method. <i>Theoretical and Applied Climatology</i> , 2017 , 129, 21-32	3	18
64	Optimal design of real-size building structures using quantum-behaved developed swarm optimizer. <i>Structural Design of Tall and Special Buildings</i> , 2020 , 29, e1747	1.8	18
63	Regional drought frequency analysis using L-moments and adjusted charged system search. <i>Journal of Hydroinformatics</i> , 2017 , 19, 426-442	2.6	17
62	A hybrid CSS and PSO algorithm for optimal design of structures. <i>Structural Engineering and Mechanics</i> , 2012 , 42, 783-797		17

61	Optimum design of building structures using Tribe-Interior Search Algorithm. <i>Structures</i> , 2020 , 28, 1616-1633	4.33	17
60	Social Network Search for Global Optimization. <i>IEEE Access</i> , 2021 , 9, 92815-92863	3.5	17
59	An inverse TSK model of MR damper for vibration control of nonlinear structures using an improved grasshopper optimization algorithm. <i>Structures</i> , 2020 , 26, 406-416	3.4	16
58	Enriched Imperialist Competitive Algorithm for system identification of magneto-rheological dampers. <i>Mechanical Systems and Signal Processing</i> , 2015 , 62-63, 506-516	7.8	15
57	Social Network Search for Solving Engineering Optimization Problems. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 8548639	3	15
56	Hybrid Invasive Weed Optimization-Shuffled Frog-Leaping Algorithm for Optimal Design of Truss Structures. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2020 , 44, 405-420	1.1	15
55	Structural Optimization Using Krill Herd Algorithm 2013 , 335-349		14
54	Multi-Objective Crystal Structure Algorithm (MOCryStAl): Introduction and Performance Evaluation. <i>IEEE Access</i> , 2021 , 9, 117795-117812	3.5	14
53	Predicting the climbing rate of slip formwork systems using linear biogeography-based programming. <i>Applied Soft Computing Journal</i> , 2018 , 70, 263-278	7.5	14
52	Seismic energy-based design of BRB frames using multi-objective vibrating particles system optimization. <i>Structures</i> , 2020 , 24, 227-239	3.4	13
51	Optimal design of large-scale frames with an advanced charged system search algorithm using box-shaped sections. <i>Engineering With Computers</i> , 2020 , 37, 2521	4.5	13
50	Solving Parameter Identification of Nonlinear Problems by Artificial Bee Colony Algorithm. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-6	1.1	13
49	Optimum Design of Truss Structures Under Frequency Constraints using Hybrid CSS-MBLS Algorithm. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 1840-1853	1.9	12
48	A new hybrid optimization algorithm for recognition of hysteretic non-linear systems. <i>KSCE Journal of Civil Engineering</i> , 2013 , 17, 1099-1108	1.9	12
47	Accelerated Particle Swarm for Optimum Design of Frame Structures. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-6	1.1	12
46	Tribe-charged system search for global optimization. <i>Applied Mathematical Modelling</i> , 2021 , 93, 115-133	4.5	12
45	A chaotic imperialist competitive algorithm for optimum cost design of cantilever retaining walls. <i>KSCE Journal of Civil Engineering</i> , 2013 , 17, 972-979	1.9	11
44	Optimal Parameter Estimation for Muskingum Model Using a CSS-PSO Method. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 480954	1.2	10

43	The Hybrid Invasive Weed Optimization-Shuffled Frog-leaping Algorithm Applied to Optimal Design of Frame Structures. <i>Periodica Polytechnica: Civil Engineering</i> , 2019 ,	1.2	9
42	. <i>IEEE Access</i> , 2021 , 9, 102497-102519	3.5	9
41	Optimal Design of Magnetorheological Damper Based on Tuning Bouc-Wen Model Parameters Using Hybrid Algorithms. <i>KSCE Journal of Civil Engineering</i> , 2020 , 24, 867-878	1.9	8
40	Optimum energy-based design of BRB frames using nonlinear response history analysis. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 1005-1019	3.6	8
39	Operation of two major reservoirs of Iran under IPCC scenarios during the XXI century. <i>Hydrological Processes</i> , 2018 , 32, 3254	3.3	8
38	On the efficiency of semi-active smart structures: self-regulating MR dampers control system for tall buildings. <i>Structural Design of Tall and Special Buildings</i> , 2014 , 23, 1027-1044	1.8	8
37	Fuzzy Adaptive Charged System Search for global optimization. <i>Applied Soft Computing Journal</i> , 2021 , 109, 107518	7.5	8
36	Multivariate regional frequency analysis: Two new methods to increase the accuracy of measures. <i>Advances in Water Resources</i> , 2017 , 107, 290-300	4.7	7
35	Extended Mononobe-Okabe Method for Seismic Design of Retaining Walls. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-10	1.1	7
34	A general model for meta-heuristic algorithms using the concept of fields of forces. <i>Acta Mechanica</i> , 2011 , 221, 99-118	2.1	7
33	A Robust Finite Element Analysis of the Rail-Wheel Rolling Contact. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 272350	1.2	6
32	Control of the nonlinear building using an optimum inverse TSK model of MR damper based on modified grey wolf optimizer. <i>Engineering Structures</i> , 2020 , 214, 110657	4.7	5
31	Shear design curves of unstiffened plate girder web panels at high temperatures. <i>Journal of Constructional Steel Research</i> , 2020 , 164, 105808	3.8	5
30	Optimum design of steel building structures using migration-based vibrating particles system. <i>Structures</i> , 2021 , 33, 1394-1413	3.4	5
29	Optimum Performance-Based Seismic Design Using a Hybrid Optimization Algorithm. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-8	1.1	4
28	Chaotic Charged System Search with a Feasible-Based Method for Constraint Optimization Problems. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-8	1.1	4
27	Improved arithmetic optimization algorithm for design optimization of fuzzy controllers in steel building structures with nonlinear behavior considering near fault ground motion effects. <i>Artificial Intelligence Review</i> , 1	9.7	4
26	Influence of Polypropylene Length on Stability and Flow of Fiber-reinforced Asphalt Mixtures. <i>Civil Engineering Journal (Iran)</i> , 2016 , 2, 538-545	5.2	4

25	Optimal Parameter Identification of Fuzzy Controllers in Nonlinear Buildings Based on Seismic Hazard Analysis Using Tribe-Charged System Search. <i>Studies in Systems, Decision and Control</i> , 2021 , 99-132 ^{0.8}	4
24	Risk-Based Arch Dam Optimization Using Hybrid Charged System Search. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2018 , 4, 04018008	1.7 3
23	Optimum Performance-Based Seismic Design of Frames Using Metaheuristic Optimization Algorithms 2013 , 419-437	3
22	An Extensive Review of Charged System Search Algorithm for Engineering Optimization Applications. <i>Springer Tracts in Nature-inspired Computing</i> , 2021 , 309-334	1.8 3
21	Optimization of Large-Scale Frame Structures Using Fuzzy Adaptive Quantum Inspired Charged System Search. <i>International Journal of Steel Structures</i> ,1	1.3 3
20	Optimum Design of Skeletal Structures via Big BangBig Crunch Algorithm 2013 , 173-205	2
19	Ant Colony Optimization for Estimating Parameters of Flood Frequency Distributions 2013 , 121-146	2
18	Numerical investigation on ultimate shear strength of long steel plate girder web panels at high temperatures. <i>Journal of Building Engineering</i> , 2020 , 29, 101070	5.2 2
17	Shear wall layout optimization of tall buildings using Quantum Charged System Search. <i>Frontiers of Structural and Civil Engineering</i> , 2020 , 14, 1131-1151	2.5 2
16	Crystal structure optimization approach to problem solving in mechanical engineering design. <i>Multidiscipline Modeling in Materials and Structures</i> , 2022 , 18, 1-23	2.2 2
15	MOTEO: a novel multi-objective thermal exchange optimization algorithm for engineering problems. <i>Soft Computing</i> ,1	3.5 2
14	Statistical and Probabilistic Approach in Monitoring-Based Structure Rating and Risk Assessment. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-2	1.1 1
13	Determining the Optimum Section of Tunnels Using Ant Colony Optimization. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-7	1.1 1
12	Graph Products and Its Applications in Mathematical Formulation of Structures. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-16	1.1 1
11	Reliability Analysis of Semiactive Magnetorheological Dampers Subjected to Harmonic Excitations. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 643927	1.2 1
10	. <i>IEEE Access</i> , 2021 , 9, 166658-166673	3.5 1
9	Metaheuristically optimized nano-MgO additive in freeze-thaw resistant concrete: A charged system search-based approach. <i>Engineering Research Express</i> ,	0.9 1
8	Design optimization of fuzzy controllers in building structures using the crystal structure algorithm (CryStAl). <i>Advanced Engineering Informatics</i> , 2022 , 52, 101616	7.4 1

7	Computational Intelligence in Civil and Hydraulic Engineering. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-2	1.1	○
6	Application of Taguchi Method and Genetic Algorithm for Calibration of Soil Constitutive Models. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-11	1.1	○
5	Multiobjective charged system search for optimum location of bank branch 2022 , 119-133		○
4	Evaluation of the Mechanical Properties of Normal Concrete Containing Nano-MgO under Freeze-Thaw Conditions by Evolutionary Intelligence. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2529	2.6	○
3	Optimal design of low- and high-rise building structures by Tribe-Harmony Search algorithm. <i>Decision Analytics Journal</i> , 2022 , 100067		○
2	The Algebraic Riccati Matrix Equation for Eigendecomposition of Canonical Forms. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-7	1.1	
1	Application of multiobjective Gray Wolf Optimization in gasification-based problems 2022 , 133-156		