Xin-She Yang

List of Publications by Year
in descending order

334 papers	39,957 citations	14614 66 h-index	4101 175 g-index
386 all docs	386 docs citations	386 times ranked	16067 citing authors

#	Article	IF	Citations
1	Cuckoo Search via Lévy flights. , 2009, , .		3,799
2	A New Metaheuristic Bat-Inspired Algorithm. Studies in Computational Intelligence, 2010, , 65-74.	0.7	2,880
3	Firefly Algorithms for Multimodal Optimization. Lecture Notes in Computer Science, 2009, , 169-178.	1.0	2,322
4	Firefly algorithm, stochastic test functions and design optimisation. International Journal of Bio-Inspired Computation, 2010, 2, 78.	0.6	2,075
5	Cuckoo search algorithm: a metaheuristic approach to solve structural optimization problems. Engineering With Computers, 2013, 29, 17-35.	3.5	1,671
6	Engineering optimisation by cuckoo search. International Journal of Mathematical Modelling and Numerical Optimisation, 2010, 1, 330.	0.1	1,503
7	Bat algorithm: a novel approach for global engineering optimization. Engineering Computations, 2012, 29, 464-483.	0.7	1,313
8	Flower Pollination Algorithm for Global Optimization. Lecture Notes in Computer Science, 2012, , 240-249.	1.0	1,289
9	A comprehensive review of firefly algorithms. Swarm and Evolutionary Computation, 2013, 13, 34-46.	4.5	993
10	Cuckoo search: recent advances and applications. Neural Computing and Applications, 2014, 24, 169-174.	3.2	791
11	A literature survey of benchmark functions for global optimisation problems. International Journal of Mathematical Modelling and Numerical Optimisation, 2013, 4, 150.	0.1	759
12	Bat algorithm: literature review and applications. International Journal of Bio-Inspired Computation, 2013, 5, 141.	0.6	747
13	Bat algorithm for multi-objective optimisation. International Journal of Bio-Inspired Computation, 2011, 3, 267.	0.6	712
14	Multiobjective cuckoo search for design optimization. Computers and Operations Research, 2013, 40, 1616-1624.	2.4	710
15	Firefly algorithm with chaos. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 89-98.	1.7	702
16	Mixed variable structural optimization using Firefly Algorithm. Computers and Structures, 2011, 89, 2325-2336.	2.4	673
17	Firefly Algorithm, LÃ©vy Flights and Global Optimization. , 2010, , 209-218.		625
18	Firefly Algorithm for solving non-convex economic dispatch problems with valve loading effect. Applied Soft Computing Journal, 2012, 12, 1180-1186.	4.1	538

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19	Flower pollination algorithm: A novel approach for multiobjective optimization. Engineering Optimization, 2014, 46, 1222-1237.	1.5	507
20	Binary bat algorithm. Neural Computing and Applications, 2014, 25, 663-681.	3.2	507
21	Bat algorithm for constrained optimization tasks. Neural Computing and Applications, 2013, 22, 1239-1255.	3.2	442
22	Bio-inspired computation: Where we stand and what's next. Swarm and Evolutionary Computation, 2019, 48, 220-250.	4.5	430
23	Chaotic bat algorithm. Journal of Computational Science, 2014, 5, 224-232.	1.5	426
24	Multiobjective firefly algorithm for continuous optimization. Engineering With Computers, 2013, 29, 175-184.	3.5	420
25	Discrete cuckoo search algorithm for the travelling salesman problem. Neural Computing and Applications, 2014, 24, 1659-1669.	3.2	365
26	Chaos-enhanced accelerated particle swarm optimization. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 327-340.	1.7	324
27	Multi-objective Flower Algorithm for Optimization. Procedia Computer Science, 2013, 18, 861-868.	1.2	288
28	Economic dispatch using chaotic bat algorithm. Energy, 2016, 96, 666-675.	4.5	279
29	Harmony Search as a Metaheuristic Algorithm. Studies in Computational Intelligence, 2009, , 1-14.	0.7	276
30	An improved discrete bat algorithm for symmetric and asymmetric Traveling Salesman Problems. Engineering Applications of Artificial Intelligence, 2016, 48, 59-71.	4.3	261
31	BBA: A Binary Bat Algorithm for Feature Selection. , 2012, , .		252
32	Swarm Intelligence and Bio-Inspired Computation. , 2013, , 3-23.		245
33	A Discrete Firefly Algorithm for the Multi-Objective Hybrid Flowshop Scheduling Problems. IEEE Transactions on Evolutionary Computation, 2014, 18, 301-305.	7.5	240
34	A wrapper approach for feature selection based on Bat Algorithm and Optimum-Path Forest. Expert Systems With Applications, 2014, 41, 2250-2258.	4.4	212
35	New directional bat algorithm for continuous optimization problems. Expert Systems With Applications, 2017, 69, 159-175.	4.4	204
36	Nature-inspired optimization algorithms: Challenges and open problems. Journal of Computational Science, 2020, 46, 101104.	1.5	203

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37	Engineering Optimizations via Nature-Inspired Virtual Bee Algorithms. Lecture Notes in Computer Science, 2005, , 317-323.	1.0	194
38	Computational Optimization, Methods and Algorithms. Studies in Computational Intelligence, 2011, , .	0.7	192
39	Review of meta-heuristics and generalised evolutionary walk algorithm. International Journal of Bio-Inspired Computation, 2011, 3, 77.	0.6	181
40	Improved cuckoo search algorithm for hybrid flow shop scheduling problems to minimize makespan. Applied Soft Computing Journal, 2014, 19, 93-101.	4.1	175
41	Swarm intelligence based algorithms: a critical analysis. Evolutionary Intelligence, 2014, 7, 17-28.	2.3	149
42	Sizing optimization of truss structures using flower pollination algorithm. Applied Soft Computing Journal, 2015, 37, 322-331.	4.1	147
43	Accelerated Particle Swarm Optimization and Support Vector Machine for Business Optimization and Applications. Communications in Computer and Information Science, 2011, , 53-66.	0.4	146
44	Eagle Strategy Using LÃ©vy Walk and Firefly Algorithms for Stochastic Optimization. Studies in Computational Intelligence, 2010, , 101-111.	0.7	145
45	Design optimization of truss structures using cuckoo search algorithm. Structural Design of Tall and Special Buildings, 2013, 22, 1330-1349.	0.9	132
46	Wolf search algorithm with ephemeral memory. , 2012, , .		129
47	Optimisation of scaling factors in electrocardiogram signal watermarking using cuckoo search. International Journal of Bio-Inspired Computation, 2013, 5, 315.	0.6	128
48	Coupled eagle strategy and differential evolution for unconstrained and constrained global optimization. Computers and Mathematics With Applications, 2012, 63, 191-200.	1.4	124
49	A novel improved accelerated particle swarm optimization algorithm for global numerical optimization. Engineering Computations, 2014, 31, 1198-1220.	0.7	124
50	Modified firefly algorithm using quaternion representation. Expert Systems With Applications, 2013, 40, 7220-7230.	4.4	121
51	EEG-based person identification through Binary Flower Pollination Algorithm. Expert Systems With Applications, 2016, 62, 81-90.	4.4	121
52	A Discrete and Improved Bat Algorithm for solving a medical goods distribution problem with pharmacological waste collection. Swarm and Evolutionary Computation, 2019, 44, 273-286.	4.5	113
53	BCS: A Binary Cuckoo Search algorithm for feature selection. , 2013, , .		112
54	Metaheuristic Algorithms in Modeling and Optimization. , 2013, , 1-24.		110

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55	A Novel Hybrid Firefly Algorithm for Global Optimization. PLoS ONE, 2016, 11, e0163230.	1.1	109
56	A discrete firefly algorithm to solve a rich vehicle routing problem modelling a newspaper distribution system with recycling policy. Soft Computing, 2017, 21, 5295-5308.	2.1	109
57	Planning the sports training sessions with the bat algorithm. Neurocomputing, 2015, 149, 993-1002.	3.5	105
58	Hybrid Metaheuristic Algorithms: Past, Present, and Future. Studies in Computational Intelligence, 2015, , 71-83.	0.7	101
59	Bat Algorithms. , 2014, , 141-154.		100
60	Metaheuristic Optimization: Algorithm Analysis and Open Problems. Lecture Notes in Computer Science, 2011, , 21-32.	1.0	97
61	A novel bat algorithm based optimum tuning of mass dampers for improving the seismic safety of structures. Engineering Structures, 2018, 159, 89-98.	2.6	93
62	Optimal test sequence generation using firefly algorithm. Swarm and Evolutionary Computation, 2013, 8, 44-53.	4.5	92
63	Cuckoo Search: A Brief Literature Review. Studies in Computational Intelligence, 2014, , 49-62.	0.7	90
64	Optimal capacitor placement in radial distribution systems using flower pollination algorithm. AEJ - Alexandria Engineering Journal, 2018, 57, 2775-2786.	3.4	90
65	Metaheuristic Algorithms: Optimal Balance of Intensification and Diversification. Applied Mathematics and Information Sciences, 2014, 8, 977-983.	0.7	90
66	A Novel Approach for Multispectral Satellite Image Classification Based on the Bat Algorithm. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 599-603.	1.4	88
67	Swarm intelligence: past, present and future. Soft Computing, 2018, 22, 5923-5933.	2.1	87
68	Randomly attracted firefly algorithm with neighborhood search and dynamic parameter adjustment mechanism. Soft Computing, 2017, 21, 5325-5339.	2.1	86
69	Metaheuristic Optimization. Scholarpedia Journal, 2011, 6, 11472.	0.3	79
70	Bat-inspired algorithms with natural selection mechanisms for global optimization. Neurocomputing, 2018, 273, 448-465.	3.5	76
71	A combined finite-discrete element method for simulating pharmaceutical powder tableting. International Journal for Numerical Methods in Engineering, 2005, 62, 853-869.	1.5	73
72	Chaos in small-world networks. Physical Review E, 2001, 63, 046206.	0.8	72

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73	A framework for self-tuning optimization algorithm. Neural Computing and Applications, 2013, 23, 2051-2057.	3.2	72
74	Binary Flower Pollination Algorithm and Its Application to Feature Selection. Studies in Computational Intelligence, 2015, , 85-100.	0.7	72
75	Variants of the Flower Pollination Algorithm: A Review. Studies in Computational Intelligence, 2018, , 91-118.	0.7	72
76	Integrating nature-inspired optimization algorithms to K-means clustering. , 2012, , .		70
77	LÃ©vy flight artificial bee colony algorithm. International Journal of Systems Science, 2016, 47, 2652-2670.	3.7	69
78	Cuckoo Search and Firefly Algorithm: Overview and Analysis. Studies in Computational Intelligence, 2014, , 1-26.	0.7	66
79	Benchmark Problems in Structural Optimization. Studies in Computational Intelligence, 2011, , 259-281.	0.7	65
80	Two-stage eagle strategy with differential evolution. International Journal of Bio-Inspired Computation, 2012, 4, 1.	0.6	63
81	From Swarm Intelligence to Metaheuristics: Nature-Inspired Optimization Algorithms. Computer, 2016, 49, 52-59.	1.2	61
82	Chaos-Enhanced Firefly Algorithm with Automatic Parameter Tuning. International Journal of Swarm Intelligence Research, 2011, 2, 1-11.	0.5	60
83	Nature-Inspired Framework for Hyperspectral Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2126-2137.	2.7	60
84	Bat algorithm based on simulated annealing and Gaussian perturbations. Neural Computing and Applications, 2014, 25, 459-468.	3.2	57
85	Optimum design of frame structures using the Eagle Strategy with Differential Evolution. Engineering Structures, 2015, 91, 16-25.	2.6	57
86	Random-key cuckoo search for the travelling salesman problem. Soft Computing, 2015, 19, 1099-1106.	2.1	56
87	Evolutionary boundary constraint handling scheme. Neural Computing and Applications, 2012, 21, 1449-1462.	3.2	54
88	Influence of initialization on the performance of metaheuristic optimizers. Applied Soft Computing Journal, 2020, 91, 106193.	4.1	53
89	Nature-Inspired Mateheuristic Algorithms: Success and New Challenges. Journal of Computer Engineering and Information Technology, 2012, 01, .	0.1	51
90	Global Convergence Analysis of the Flower Pollination Algorithm: A Discrete-Time Markov Chain Approach. Procedia Computer Science, 2017, 108, 1354-1363.	1.2	50

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91	Fast and Slow Compaction in Sedimentary Basins. SIAM Journal on Applied Mathematics, 1998, 59, 365-385.	0.8	48
92	Feature Selection in Life Science Classification: Metaheuristic Swarm Search. IT Professional, 2014, 16, 24-29.	1.4	48
93	Community detection in networks using bio-inspired optimization: Latest developments, new results and perspectives with a selection of recent meta-heuristics. Applied Soft Computing Journal, 2020, 87, 106010.	4.1	48
94	Optimization and Metaheuristic Algorithms in Engineering. , 2013, , 1-23.		46
95	Efficiency Analysis of Swarm Intelligence and Randomization Techniques. Journal of Computational and Theoretical Nanoscience, 2012, 9, 189-198.	0.4	45
96	Bat algorithm: Recent advances. , 2014, , .		45
97	A heuristic optimization method inspired by wolf preying behavior. Neural Computing and Applications, 2015, 26, 1725-1738.	3.2	43
98	Simulation-Driven Design Optimization and Modeling for Microwave Engineering. , 2013, , .		43
99	Computational Intelligence and Metaheuristic Algorithms with Applications. Scientific World Journal, The, 2014, 2014, 1-4.	0.8	41
100	Firefly Algorithms. , 2014, , 111-127.		40
101	Software test effort estimation: a model based on cuckoo search. International Journal of Bio-Inspired Computation, 2012, 4, 278.	0.6	39
102	Multi-Objective Optimization. , 2014, , 197-211.		39
103	Handling dropout probability estimation in convolution neural networks using meta-heuristics. Soft Computing, 2018, 22, 6147-6156.	2.1	39
104	Convolutional Neural Networks Applied for Parkinsonâ€™s Disease Identification. Lecture Notes in Computer Science, 2016, , 377-390.	1.0	38
105	Application of the Flower Pollination Algorithm in Structural Engineering. Modeling and Optimization in Science and Technologies, 2016, , 25-42.	0.7	38
106	Comparison of bio-inspired algorithms applied to the coordination of mobile robots considering the energy consumption. Neural Computing and Applications, 2019, 31, 263-286.	3.2	38
107	A two dimensional combined discrete and finite element scheme for simulating the flow and compaction of systems comprising irregular particulates. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 5552-5565.	3.4	37
108	Nature-inspired computation and swarm intelligence: a state-of-the-art overview. , 2020, , 3-18.		37

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109	Computational Optimization, Modelling and Simulation: Recent Trends and Challenges. Procedia Computer Science, 2013, 18, 855-860.	1.2	36
110	Computational Optimization and Applications in Engineering and Industry. Studies in Computational Intelligence, 2011, , .	0.7	35
111	Global convergence analysis of the bat algorithm using a markovian framework and dynamical system theory. Expert Systems With Applications, 2018, 114, 173-182.	4.4	35
112	Fusing wearable and remote sensing data streams by fast incremental learning with swarm decision table for human activity recognition. Information Fusion, 2020, 60, 41-64.	11.7	35
113	Test Functions for Global Optimization. , 2013, , 193-222.		34
114	Random Walks and Optimization. , 2014, , 45-65.		34
115	Multi-species Cuckoo Search Algorithm for Global Optimization. Cognitive Computation, 2018, 10, 1085-1095.	3.6	34
116	Bat Algorithms. , 2021, , 157-173.		34
117	How Meta-heuristic Algorithms Contribute to Deep Learning in the Hype of Big Data Analytics. Advances in Intelligent Systems and Computing, 2018, , 3-25.	0.5	34
118	Improved and Discrete Cuckoo Search for Solving the Travelling Salesman Problem. Studies in Computational Intelligence, 2014, , 63-84.	0.7	33
119	Memetic Self-Adaptive Firefly Algorithm. , 2013, , 73-102.		32
120	Firefly Algorithm: A Brief Review of the Expanding Literature. Studies in Computational Intelligence, 2014, , 347-360.	0.7	31
121	Adaptation and Hybridization in Nature-Inspired Algorithms. Adaptation, Learning, and Optimization, 2015, , 3-50.	0.5	31
122	A Comprehensive Review of the Flower Pollination Algorithm for Solving Engineering Problems. Studies in Computational Intelligence, 2018, , 171-188.	0.7	31
123	Metaheuristic Optimization: Nature-Inspired Algorithms and Applications. Studies in Computational Intelligence, 2013, , 405-420.	0.7	30
124	Binary Bat Algorithm for Feature Selection. , 2013, , 225-237.		30
125	True global optimality of the pressure vessel design problem: a benchmark for bio-inspired optimisation algorithms. International Journal of Bio-Inspired Computation, 2013, 5, 329.	0.6	30
126	Reliability-based design optimization using the directional bat algorithm. Neural Computing and Applications, 2018, 30, 2381-2402.	3.2	30

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127	Traveling salesman problem: a perspective review of recent research and new results with bio-inspired metaheuristics. , 2020, , 135-164.		30
128	Introduction to Algorithms. , 2014, , 1-21.		29
129	Navigability analysis of magnetic map with projecting pursuit-based selection method by using firefly algorithm. Neurocomputing, 2015, 159, 288-297.	3.5	29
130	Nature-Inspired Optimization Algorithms in Engineering: Overview and Applications. Studies in Computational Intelligence, 2016, , 1-20.	0.7	28
131	Why the Firefly Algorithm Works?. Studies in Computational Intelligence, 2018, , 245-259.	0.7	28
132	Metaheuristic Optimization of Reinforced Concrete Footings. KSCE Journal of Civil Engineering, 2018, 22, 4555-4563.	0.9	28
133	Fractals in small-world networks with time-delay. Chaos, Solitons and Fractals, 2002, 13, 215-219.	2.5	27
134	Cuckoo search for business optimization applications. , 2012, , .		27
135	Pressure solution in sedimentary basins: effect of temperature gradient. Earth and Planetary Science Letters, 2000, 176, 233-243.	1.8	26
136	Bat algorithm for topology optimization in microelectronic applications. , 2012, , .		26
137	On the Randomized Firefly Algorithm. Studies in Computational Intelligence, 2014, , 27-48.	0.7	26
138	An Evolutionary Discrete Firefly Algorithm with Novel Operators for Solving the Vehicle Routing Problem with Time Windows. Studies in Computational Intelligence, 2016, , 21-41.	0.7	26
139	Optimum Tuning of Mass Dampers by Using a Hybrid Method Using Harmony Search and Flower Pollination Algorithm. Advances in Intelligent Systems and Computing, 2017, , 222-231.	0.5	26
140	Towards Enhancement of Performance of K-Means Clustering Using Nature-Inspired Optimization Algorithms. Scientific World Journal, The, 2014, 2014, 1-16.	0.8	25
141	Bio-Inspired Computation and Optimization. , 2015, , 1-21.		25
142	A Physarum-inspired approach to supply chain network design. Science China Information Sciences, 2016, 59, 1.	2.7	25
143	Self-adaptive decision-making mechanisms to balance the execution of multiple tasks for a multi-robots team. Neurocomputing, 2018, 306, 17-36.	3.5	25
144	FREE LUNCH OR NO FREE LUNCH: THAT IS NOT JUST A QUESTION?. International Journal on Artificial Intelligence Tools, 2012, 21, 1240010.	0.7	24

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145	Bat Algorithm and Cuckoo Search: A Tutorial. Studies in Computational Intelligence, 2013, , 421-434.	0.7	24
146	Are motorways rational from slime mould's point of view?. International Journal of Parallel, Emergent and Distributed Systems, 2013, 28, 230-248.	0.7	24
147	Cuckoo Search. , 2014, , 129-139.		24
148	Swarm robotics in wireless distributed protocol design for coordinating robots involved in cooperative tasks. Soft Computing, 2018, 22, 4251-4266.	2.1	24
149	Swarm Search for Feature Selection in Classification. , 2013, , .		23
150	A Firefly-Inspired Method for Protein Structure Prediction in Lattice Models. Biomolecules, 2014, 4, 56-75.	1.8	23
151	A Biologically Inspired Network Design Model. Scientific Reports, 2015, 5, 10794.	1.6	23
152	Quaternion-based Deep Belief Networks fine-tuning. Applied Soft Computing Journal, 2017, 60, 328-335.	4.1	23
153	Biology-Derived Algorithms in Engineering Optimization. Chapman & Hall/CRC Computer and Information Science Series, 2005, , 32-589-32-600.	0.4	23
154	Learning Parameters in Deep Belief Networks Through Firefly Algorithm. Lecture Notes in Computer Science, 2016, , 138-149.	1.0	22
155	Precise measurement of gravity variations during a total solar eclipse. Physical Review D, 2000, 62, .	1.6	21
156	Modelling heat transfer of carbon nanotubes. Modelling and Simulation in Materials Science and Engineering, 2005, 13, 893-902.	0.8	21
157	Swarm-Based Metaheuristic Algorithms and No-Free-Lunch Theorems. , 0, , .		21
158	Optimization in Civil Engineering and Metaheuristic Algorithms: A Review of State-of-the-Art Developments. , 2019, , 111-137.		21
159	Attraction and diffusion in nature-inspired optimization algorithms. Neural Computing and Applications, 2019, 31, 1987-1994.	3.2	20
160	Random Walks, LÃ©vy Flights, Markov Chains and Metaheuristic Optimization. Lecture Notes in Electrical Engineering, 2013, , 1055-1064.	0.3	19
161	Particle Swarm Optimization. , 2014, , 99-110.		19
162	Hybrid local diffusion maps and improved cuckoo search algorithm for multiclass dataset analysis. Neurocomputing, 2016, 189, 106-116.	3.5	19

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163	Mathematical Foundations of Nature-Inspired Algorithms. SpringerBriefs in Optimization, 2019, , .	0.3	19
164	A unified approach to mechanical compaction, pressure solution, mineral reactions and the temperature distribution in hydrocarbon basins. Tectonophysics, 2001, 330, 141-151.	0.9	18
165	Title is missing!. Astrophysics and Space Science, 2002, 282, 245-253.	0.5	18
166	Flower Pollination Algorithms. , 2014, , 155-173.		18
167	An empirical study of test effort estimation based on bat algorithm. International Journal of Bio-Inspired Computation, 2014, 6, 57.	0.6	18
168	Mathematical Analysis of Nature-Inspired Algorithms. Studies in Computational Intelligence, 2018, , 1-25.	0.7	18
169	Selecting Optimal Feature Set in High-Dimensional Data by Swarm Search. Journal of Applied Mathematics, 2013, 2013, 1-18.	0.4	17
170	Towards the Novel Reasoning among Particles in PSO by the Use of RDF and SPARQL. Scientific World Journal, The, 2014, 2014, 1-10.	0.8	17
171	Particle Swarm Optimization. , 2021, , 111-121.		17
172	Flower pollination algorithm parameters tuning. Soft Computing, 2021, 25, 14429-14447.	2.1	17
173	A binary PSO-based ensemble under-sampling model for rebalancing imbalanced training data. Journal of Supercomputing, 2022, 78, 7428-7463.	2.4	17
174	Slime mould imitates transport networks in China. International Journal of Intelligent Computing and Cybernetics, 2013, 6, 232-251.	1.6	16
175	Discrete Cuckoo Search algorithm for job shop scheduling problem. , 2014, , .		16
176	Analysis of Algorithms. , 2014, , 23-44.		16
177	Swarm Intelligence and Evolutionary Computation: Overview and Analysis. Studies in Computational Intelligence, 2015, , 1-23.	0.7	16
178	Color Image Segmentation By Cuckoo Search. Intelligent Automation and Soft Computing, 2015, 21, 673-685.	1.6	16
179	Is the Vehicle Routing Problem Dead? An Overview Through Bioinspired Perspective and a Prospect of Opportunities. Springer Tracts in Nature-inspired Computing, 2020, , 57-84.	1.2	16
180	Application of Virtual Ant Algorithms in the Optimization of CFRP Shear Strengthened Precracked Structures. Lecture Notes in Computer Science, 2006, , 834-837.	1.0	16

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181	Dissolution/precipitation mechanisms for diagenesis in sedimentary basins. Journal of Geophysical Research, 2003, 108, .	3.3	15
182	Computational modelling of nonlinear calcium waves. Applied Mathematical Modelling, 2006, 30, 200-208.	2.2	15
183	Nature-Inspired Clustering Algorithms for Web Intelligence Data. , 2012, , .		15
184	A bio-inspired algorithm for identification of critical components in the transportation networks. Applied Mathematics and Computation, 2014, 248, 18-27.	1.4	15
185	Mathematical modelling and parameter optimization of pulsating heat pipes. Journal of Computational Science, 2014, 5, 119-125.	1.5	15
186	Rare Events Forecasting Using a Residual-Feedback GMDH Neural Network. , 2012, , .		14
187	Firefly Algorithm and Its Variants in Digital Image Processing: A Comprehensive Review. Springer Tracts in Nature-inspired Computing, 2020, , 1-28.	1.2	14
188	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
189	Testing non-Newtonian gravitation on a 320 m tower. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 169, 131-133.	0.9	13
190	Small-world networks in geophysics. Geophysical Research Letters, 2001, 28, 2549-2552.	1.5	13
191	Optimization Algorithms. Studies in Computational Intelligence, 2011, , 13-31.	0.7	13
192	Cuckoo search for inverse problems and simulated-driven shape optimization. Journal of Computational Methods in Sciences and Engineering, 2012, 12, 129-137.	0.1	13
193	Computational Optimization, Modelling and Simulation: Past, Present and Future. Procedia Computer Science, 2014, 29, 754-758.	1.2	13
194	Neighborhood information-based probabilistic algorithm for network disintegration. Expert Systems With Applications, 2020, 139, 112853.	4.4	13
195	Optimization and data mining for fracture prediction in geosciences. Procedia Computer Science, 2010, 1, 1359-1366.	1.2	12
196	A Concurrent Modelling to Generate Alternatives Approach Using the Firefly Algorithm. International Journal of Decision Support System Technology, 2013, 5, 33-45.	0.4	12
197	Simulated Annealing. , 2014, , 67-75.		12
198	Applications and analysis of bio-inspired eagle strategy for engineering optimization. Neural Computing and Applications, 2014, 25, 411-420.	3.2	12

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199	Bio-inspired computation: success and challenges of IJBIC. International Journal of Bio-Inspired Computation, 2014, 6, 1.	0.6	12
200	Modified bat algorithm with quaternion representation. , 2015, , .		12
201	Review and Applications of Metaheuristic Algorithms in Civil Engineering. Modeling and Optimization in Science and Technologies, 2016, , 1-24.	0.7	12
202	Parameterless Bat Algorithm and Its Performance Study. Studies in Computational Intelligence, 2016, , 267-276.	0.7	12
203	Cuckoo search: State-of-the-art and opportunities. , 2017, , .		12
204	On Efficiently Solving the Vehicle Routing Problem with Time Windows Using the Bat Algorithm with Random Reinsertion Operators. Studies in Computational Intelligence, 2018, , 69-89.	0.7	12
205	Bat Algorithm and Directional Bat Algorithm with Case Studies. Studies in Computational Intelligence, 2018, , 189-216.	0.7	12
206	Eagle strategy with flower algorithm. , 2013, , .		11
207	Analysis of qualityâ€ofâ€service aware orthogonal frequency division multiple access system considering energy efficiency. IET Communications, 2014, 8, 1947-1954.	1.5	11
208	Analysis of Firefly Algorithms and Automatic Parameter Tuning. Advances in Computational Intelligence and Robotics Book Series, 2015, , 36-49.	0.4	11
209	Levy Flight Based Cuckoo Search Algorithm for Synthesizing Cross-Ambiguity Functions. , 2013, , .		10
210	Nature-Inspired Algorithms: Success and Challenges. Computational Methods in Applied Sciences (Springer), 2015, , 129-143.	0.1	10
211	Metaheuristic Based Optimization for Tuned Mass Dampers Using Frequency Domain Responses. Advances in Intelligent Systems and Computing, 2017, , 271-279.	0.5	10
212	Allais gravity and pendulum effects during solar eclipses explained. Physical Review D, 2003, 67, .	1.6	9
213	Oil and gas assessment of the Kuqa Depression of Tarim Basin in western China by simple fluid flow models of primary and secondary migrations of hydrocarbons. Journal of Petroleum Science and Engineering, 2010, 75, 77-90.	2.1	9
214	Computational optimization, modelling and simulationâ€“a paradigm shift. Procedia Computer Science, 2010, 1, 1297-1300.	1.2	9
215	A short discussion about â€œEconomic optimization design of shell-and-tube heat exchangers by a cuckoo-search-algorithmâ€• Applied Thermal Engineering, 2015, 76, 535-537.	3.0	9
216	Firefly algorithm and flower pollination algorithm. , 2020, , 35-48.		9

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219	Computational Optimization: An Overview. Studies in Computational Intelligence, 2011, , 1-11.	0.7	8
220	Harmony Search and Nature-Inspired Algorithms for Engineering Optimization. Journal of Applied Mathematics, 2013, 2013, 1-2.	0.4	8
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