

Xin-She Yang

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.

364
papers

28,607
citations

64
h-index

167
g-index

385
ext. papers

34,050
ext. citations

2.8
avg, IF

8.4
L-index

#	Paper	IF	Citations
364	Cuckoo Search via Levy flights 2009 ,		2495
363	A New Metaheuristic Bat-Inspired Algorithm. <i>Studies in Computational Intelligence</i> , 2010 , 65-74	0.8	1978
362	Firefly Algorithms for Multimodal Optimization. <i>Lecture Notes in Computer Science</i> , 2009 , 169-178	0.9	1596
361	Firefly algorithm, stochastic test functions and design optimisation. <i>International Journal of Bio-Inspired Computation</i> , 2010 , 2, 78	2.9	1544
360	Engineering optimisation by cuckoo search. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2010 , 1, 330	0.3	1192
359	Cuckoo search algorithm: a metaheuristic approach to solve structural optimization problems. <i>Engineering With Computers</i> , 2013 , 29, 17-35	4.5	1163
358	Bat algorithm: a novel approach for global engineering optimization. <i>Engineering Computations</i> , 2012 , 29, 464-483	1.4	906
357	Flower Pollination Algorithm for Global Optimization. <i>Lecture Notes in Computer Science</i> , 2012 , 240-249	0.9	892
356	A comprehensive review of firefly algorithms. <i>Swarm and Evolutionary Computation</i> , 2013 , 13, 34-46	9.8	764
355	2010 ,		683
354	Cuckoo search: recent advances and applications. <i>Neural Computing and Applications</i> , 2014 , 24, 169-174	4.8	585
353	Firefly algorithm with chaos. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 89-98	3.7	558
352	Bat algorithm for multi-objective optimisation. <i>International Journal of Bio-Inspired Computation</i> , 2011 , 3, 267	2.9	555
351	Mixed variable structural optimization using Firefly Algorithm. <i>Computers and Structures</i> , 2011 , 89, 2325-2336	4.3	537
350	Multiobjective cuckoo search for design optimization. <i>Computers and Operations Research</i> , 2013 , 40, 1616-1624	4.6	524
349	Bat algorithm: literature review and applications. <i>International Journal of Bio-Inspired Computation</i> , 2013 , 5, 141	2.9	521
348	A literature survey of benchmark functions for global optimisation problems. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2013 , 4, 150	0.3	483

347	Firefly Algorithm, Lby Flights and Global Optimization 2010 , 209-218		461
346	Firefly Algorithm for solving non-convex economic dispatch problems with valve loading effect. <i>Applied Soft Computing Journal</i> , 2012 , 12, 1180-1186	7.5	440
345	Flower pollination algorithm: A novel approach for multiobjective optimization. <i>Engineering Optimization</i> , 2014 , 46, 1222-1237	2	377
344	Binary bat algorithm. <i>Neural Computing and Applications</i> , 2014 , 25, 663-681	4.8	351
343	Multiobjective firefly algorithm for continuous optimization. <i>Engineering With Computers</i> , 2013 , 29, 175-184	4.8	339
342	Bat algorithm for constrained optimization tasks. <i>Neural Computing and Applications</i> , 2013 , 22, 1239-1255	4.8	336
341	Chaotic bat algorithm. <i>Journal of Computational Science</i> , 2014 , 5, 224-232	3.4	325
340	Discrete cuckoo search algorithm for the travelling salesman problem. <i>Neural Computing and Applications</i> , 2014 , 24, 1659-1669	4.8	284
339	Bio-inspired computation: Where we stand and what's next. <i>Swarm and Evolutionary Computation</i> , 2019 , 48, 220-250	9.8	264
338	Chaos-enhanced accelerated particle swarm optimization. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 327-340	3.7	259
337	Multi-objective Flower Algorithm for Optimization. <i>Procedia Computer Science</i> , 2013 , 18, 861-868	1.6	212
336	Economic dispatch using chaotic bat algorithm. <i>Energy</i> , 2016 , 96, 666-675	7.9	201
335	An improved discrete bat algorithm for symmetric and asymmetric Traveling Salesman Problems. <i>Engineering Applications of Artificial Intelligence</i> , 2016 , 48, 59-71	7.2	199
334	Harmony Search as a Metaheuristic Algorithm. <i>Studies in Computational Intelligence</i> , 2009 , 1-14	0.8	188
333	A Discrete Firefly Algorithm for the Multi-Objective Hybrid Flowshop Scheduling Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 301-305	15.6	179
332	Swarm Intelligence and Bio-Inspired Computation: An Overview 2013 , 3-23		177
331	BBA: A Binary Bat Algorithm for Feature Selection 2012 ,		174
330	A wrapper approach for feature selection based on Bat Algorithm and Optimum-Path Forest. <i>Expert Systems With Applications</i> , 2014 , 41, 2250-2258	7.8	171

329	New directional bat algorithm for continuous optimization problems. <i>Expert Systems With Applications</i> , 2017 , 69, 159-175	7.8	166
328	Review of meta-heuristics and generalised evolutionary walk algorithm. <i>International Journal of Bio-Inspired Computation</i> , 2011 , 3, 77	2.9	145
327	Improved cuckoo search algorithm for hybrid flow shop scheduling problems to minimize makespan. <i>Applied Soft Computing Journal</i> , 2014 , 19, 93-101	7.5	134
326	Computational Optimization, Methods and Algorithms. <i>Studies in Computational Intelligence</i> , 2011 ,	0.8	127
325	Engineering Optimizations via Nature-Inspired Virtual Bee Algorithms. <i>Lecture Notes in Computer Science</i> , 2005 , 317-323	0.9	125
324	Sizing optimization of truss structures using flower pollination algorithm. <i>Applied Soft Computing Journal</i> , 2015 , 37, 322-331	7.5	120
323	Optimisation of scaling factors in electrocardiogram signal watermarking using cuckoo search. <i>International Journal of Bio-Inspired Computation</i> , 2013 , 5, 315	2.9	115
322	Accelerated Particle Swarm Optimization and Support Vector Machine for Business Optimization and Applications. <i>Communications in Computer and Information Science</i> , 2011 , 53-66	0.3	115
321	Modified firefly algorithm using quaternion representation. <i>Expert Systems With Applications</i> , 2013 , 40, 7220-7230	7.8	110
320	Swarm intelligence based algorithms: a critical analysis. <i>Evolutionary Intelligence</i> , 2014 , 7, 17-28	1.7	108
319	Eagle Strategy Using Levy Walk and Firefly Algorithms for Stochastic Optimization. <i>Studies in Computational Intelligence</i> , 2010 , 101-111	0.8	108
318	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
317	A novel improved accelerated particle swarm optimization algorithm for global numerical optimization. <i>Engineering Computations</i> , 2014 , 31, 1198-1220	1.4	102
316	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
315	EEG-based person identification through Binary Flower Pollination Algorithm. <i>Expert Systems With Applications</i> , 2016 , 62, 81-90	7.8	95
314	2012 ,		95
313	Nature-inspired optimization algorithms: Challenges and open problems. <i>Journal of Computational Science</i> , 2020 , 46, 101104	3.4	91
312	A discrete firefly algorithm to solve a rich vehicle routing problem modelling a newspaper distribution system with recycling policy. <i>Soft Computing</i> , 2017 , 21, 5295-5308	3.5	87

311	Planning the sports training sessions with the bat algorithm. <i>Neurocomputing</i> , 2015 , 149, 993-1002	5.4	86
310	BCS: A Binary Cuckoo Search algorithm for feature selection 2013 ,		83
309	A Discrete and Improved Bat Algorithm for solving a medical goods distribution problem with pharmacological waste collection. <i>Swarm and Evolutionary Computation</i> , 2019 , 44, 273-286	9.8	80
308	A Novel Hybrid Firefly Algorithm for Global Optimization. <i>PLoS ONE</i> , 2016 , 11, e0163230	3.7	76
307	Metaheuristic Algorithms in Modeling and Optimization 2013 , 1-24		71
306	Randomly attracted firefly algorithm with neighborhood search and dynamic parameter adjustment mechanism. <i>Soft Computing</i> , 2017 , 21, 5325-5339	3.5	69
305	Metaheuristic Optimization: Algorithm Analysis and Open Problems. <i>Lecture Notes in Computer Science</i> , 2011 , 21-32	0.9	67
304	Optimal test sequence generation using firefly algorithm. <i>Swarm and Evolutionary Computation</i> , 2013 , 8, 44-53	9.8	66
303	A combined finite-discrete element method for simulating pharmaceutical powder tableting. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 62, 853-869	2.4	66
302	Bat Algorithms 2014 , 141-154		65
301	A framework for self-tuning optimization algorithm. <i>Neural Computing and Applications</i> , 2013 , 23, 2051-2057	4.5	64
300	Firefly Algorithm 2010 , 221-230		64
299	A novel bat algorithm based optimum tuning of mass dampers for improving the seismic safety of structures. <i>Engineering Structures</i> , 2018 , 159, 89-98	4.7	63
298	A Novel Approach for Multispectral Satellite Image Classification Based on the Bat Algorithm. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016 , 13, 599-603	4.1	62
297	Metaheuristic Algorithms: Optimal Balance of Intensification and Diversification. <i>Applied Mathematics and Information Sciences</i> , 2014 , 8, 977-983	2.4	61
296	Cuckoo Search: A Brief Literature Review. <i>Studies in Computational Intelligence</i> , 2014 , 49-62	0.8	60
295	Bat-inspired algorithms with natural selection mechanisms for global optimization. <i>Neurocomputing</i> , 2018 , 273, 448-465	5.4	58
294	Ly flight artificial bee colony algorithm. <i>International Journal of Systems Science</i> , 2016 , 47, 2652-2670	2.3	56

293	Metaheuristic Optimization. <i>Scholarpedia Journal</i> , 2011 , 6, 11472	1.5	55
292	Swarm intelligence: past, present and future. <i>Soft Computing</i> , 2018 , 22, 5923-5933	3.5	54
291	Two-stage eagle strategy with differential evolution. <i>International Journal of Bio-Inspired Computation</i> , 2012 , 4, 1	2.9	54
290	Optimal capacitor placement in radial distribution systems using flower pollination algorithm. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 2775-2786	6.1	54
289	Binary Flower Pollination Algorithm and Its Application to Feature Selection. <i>Studies in Computational Intelligence</i> , 2015 , 85-100	0.8	50
288	Chaos in small-world networks. <i>Physical Review E</i> , 2001 , 63, 046206	2.4	50
287	Chaos-Enhanced Firefly Algorithm with Automatic Parameter Tuning. <i>International Journal of Swarm Intelligence Research</i> , 2011 , 2, 1-11	1.1	49
286	Random-key cuckoo search for the travelling salesman problem. <i>Soft Computing</i> , 2015 , 19, 1099-1106	3.5	48
285	Nature-Inspired Framework for Hyperspectral Band Selection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 2126-2137	8.1	48
284	Evolutionary boundary constraint handling scheme. <i>Neural Computing and Applications</i> , 2012 , 21, 1449-1462	4.2	46
283	Integrating nature-inspired optimization algorithms to K-means clustering 2012 ,		45
282	Hybrid Metaheuristic Algorithms: Past, Present, and Future. <i>Studies in Computational Intelligence</i> , 2015 , 71-83	0.8	44
281	Fast and Slow Compaction in Sedimentary Basins. <i>SIAM Journal on Applied Mathematics</i> , 1998 , 59, 365-385	1.5	44
280	Variants of the Flower Pollination Algorithm: A Review. <i>Studies in Computational Intelligence</i> , 2018 , 91-118	1.8	43
279	From Swarm Intelligence to Metaheuristics: Nature-Inspired Optimization Algorithms. <i>Computer</i> , 2016 , 49, 52-59	1.6	43
278	Global Convergence Analysis of the Flower Pollination Algorithm: A Discrete-Time Markov Chain Approach. <i>Procedia Computer Science</i> , 2017 , 108, 1354-1363	1.6	42
277	Optimum design of frame structures using the Eagle Strategy with Differential Evolution. <i>Engineering Structures</i> , 2015 , 91, 16-25	4.7	42
276	Cuckoo Search and Firefly Algorithm: Overview and Analysis. <i>Studies in Computational Intelligence</i> , 2014 , 1-26	0.8	40

275	Feature Selection in Life Science Classification: Metaheuristic Swarm Search. <i>IT Professional</i> , 2014 , 16, 24-29	1.9	39
274	Appendix A: Test Problems in Optimization 2010 , 261-266		39
273	Bat algorithm based on simulated annealing and Gaussian perturbations. <i>Neural Computing and Applications</i> , 2014 , 25, 459-468	4.8	38
272	Benchmark Problems in Structural Optimization. <i>Studies in Computational Intelligence</i> , 2011 , 259-281	0.8	37
271	Community detection in networks using bio-inspired optimization: Latest developments, new results and perspectives with a selection of recent meta-heuristics. <i>Applied Soft Computing Journal</i> , 2020 , 87, 106010	7.5	37
270	Nature-Inspired Metaheuristic Algorithms: Success and New Challenges. <i>Journal of Computer Engineering and Information Technology</i> , 2012 , 01,		36
269	Handling dropout probability estimation in convolution neural networks using meta-heuristics. <i>Soft Computing</i> , 2018 , 22, 6147-6156	3.5	34
268	A two dimensional combined discrete and finite element scheme for simulating the flow and compaction of systems comprising irregular particulates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 5552-5565	5.7	34
267	Efficiency Analysis of Swarm Intelligence and Randomization Techniques. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012 , 9, 189-198	0.3	33
266	Optimization and Metaheuristic Algorithms in Engineering 2013 , 1-23		31
265	Global convergence analysis of the bat algorithm using a markovian framework and dynamical system theory. <i>Expert Systems With Applications</i> , 2018 , 114, 173-182	7.8	30
264	Software test effort estimation: a model based on cuckoo search. <i>International Journal of Bio-Inspired Computation</i> , 2012 , 4, 278	2.9	29
263	A heuristic optimization method inspired by wolf preying behavior. <i>Neural Computing and Applications</i> , 2015 , 26, 1725-1738	4.8	28
262	Application of the Flower Pollination Algorithm in Structural Engineering. <i>Modeling and Optimization in Science and Technologies</i> , 2016 , 25-42	0.6	27
261	Computational Optimization, Modelling and Simulation: Recent Trends and Challenges. <i>Procedia Computer Science</i> , 2013 , 18, 855-860	1.6	27
260	Navigability analysis of magnetic map with projecting pursuit-based selection method by using firefly algorithm. <i>Neurocomputing</i> , 2015 , 159, 288-297	5.4	27
259	Simulation-Driven Design Optimization and Modeling for Microwave Engineering 2013 ,		27
258	Improved and Discrete Cuckoo Search for Solving the Travelling Salesman Problem. <i>Studies in Computational Intelligence</i> , 2014 , 63-84	0.8	26

257	Multi-species Cuckoo Search Algorithm for Global Optimization. <i>Cognitive Computation</i> , 2018 , 10, 1085-1095	10.5	25
256	Firefly Algorithms 2014 , 111-127		25
255	Firefly Algorithm: A Brief Review of the Expanding Literature. <i>Studies in Computational Intelligence</i> , 2014 , 347-360	0.8	24
254	Adaptation and Hybridization in Nature-Inspired Algorithms. <i>Adaptation, Learning, and Optimization</i> , 2015 , 3-50	0.7	24
253	Pressure solution in sedimentary basins: effect of temperature gradient. <i>Earth and Planetary Science Letters</i> , 2000 , 176, 233-243	5.3	24
252	A biologically inspired network design model. <i>Scientific Reports</i> , 2015 , 5, 10794	4.9	23
251	Bat algorithm: Recent advances 2014 ,		23
250	A Physarum-inspired approach to supply chain network design. <i>Science China Information Sciences</i> , 2016 , 59, 1	3.4	23
249	Random Walks and Optimization 2014 , 45-65		22
248	Fractals in small-world networks with time-delay. <i>Chaos, Solitons and Fractals</i> , 2002 , 13, 215-219	9.3	22
247	Influence of initialization on the performance of metaheuristic optimizers. <i>Applied Soft Computing Journal</i> , 2020 , 91, 106193	7.5	21
246	Quaternion-based Deep Belief Networks fine-tuning. <i>Applied Soft Computing Journal</i> , 2017 , 60, 328-335	7.5	21
245	Memetic Self-Adaptive Firefly Algorithm 2013 , 73-102		21
244	Introduction to Computational Mathematics 2008 ,		21
243	Comparison of bio-inspired algorithms applied to the coordination of mobile robots considering the energy consumption. <i>Neural Computing and Applications</i> , 2019 , 31, 263-286	4.8	21
242	Convolutional Neural Networks Applied for Parkinson's Disease Identification. <i>Lecture Notes in Computer Science</i> , 2016 , 377-390	0.9	21
241	2018 ,		21
240	Are motorways rational from slime mould's point of view?. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2013 , 28, 230-248	1	20

239	An Evolutionary Discrete Firefly Algorithm with Novel Operators for Solving the Vehicle Routing Problem with Time Windows. <i>Studies in Computational Intelligence</i> , 2016 , 21-41	0.8	20
238	How Meta-heuristic Algorithms Contribute to Deep Learning in the Hype of Big Data Analytics. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 3-25	0.4	20
237	Optimum Tuning of Mass Dampers by Using a Hybrid Method Using Harmony Search and Flower Pollination Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 222-231	0.4	20
236	Introduction to Algorithms 2014 , 1-21		19
235	Cuckoo search for business optimization applications 2012 ,		19
234	Test Functions for Global Optimization: A Comprehensive Survey 2013 , 193-222		19
233	A Comprehensive Review of the Flower Pollination Algorithm for Solving Engineering Problems. <i>Studies in Computational Intelligence</i> , 2018 , 171-188	0.8	18
232	A firefly-inspired method for protein structure prediction in lattice models. <i>Biomolecules</i> , 2014 , 4, 56-75	5.9	18
231	Bat algorithm for topology optimization in microelectronic applications 2012 ,		18
230	Hybrid local diffusion maps and improved cuckoo search algorithm for multiclass dataset analysis. <i>Neurocomputing</i> , 2016 , 189, 106-116	5.4	17
229	Computational Optimization and Applications in Engineering and Industry. <i>Studies in Computational Intelligence</i> , 2011 ,	0.8	17
228	On the Randomized Firefly Algorithm. <i>Studies in Computational Intelligence</i> , 2014 , 27-48	0.8	17
227	Learning Parameters in Deep Belief Networks Through Firefly Algorithm. <i>Lecture Notes in Computer Science</i> , 2016 , 138-149	0.9	17
226	Self-adaptive decision-making mechanisms to balance the execution of multiple tasks for a multi-robots team. <i>Neurocomputing</i> , 2018 , 306, 17-36	5.4	17
225	Nature-Inspired Optimization Algorithms in Engineering: Overview and Applications. <i>Studies in Computational Intelligence</i> , 2016 , 1-20	0.8	16
224	Towards enhancement of performance of K-means clustering using nature-inspired optimization algorithms. <i>Scientific World Journal, The</i> , 2014 , 2014, 564829	2.2	16
223	Swarm Search for Feature Selection in Classification 2013 ,		16
222	True global optimality of the pressure vessel design problem: a benchmark for bio-inspired optimisation algorithms. <i>International Journal of Bio-Inspired Computation</i> , 2013 , 5, 329	2.9	16

221	Precise measurement of gravity variations during a total solar eclipse. <i>Physical Review D</i> , 2000 , 62,	4.9	16
220	A unified approach to mechanical compaction, pressure solution, mineral reactions and the temperature distribution in hydrocarbon basins. <i>Tectonophysics</i> , 2001 , 330, 141-151	3.1	16
219	Reliability-based design optimization using the directional bat algorithm. <i>Neural Computing and Applications</i> , 2018 , 30, 2381-2402	4.8	15
218	Swarm robotics in wireless distributed protocol design for coordinating robots involved in cooperative tasks. <i>Soft Computing</i> , 2018 , 22, 4251-4266	3.5	15
217	Cuckoo Search 2014 , 129-139		15
216	Towards the novel reasoning among particles in PSO by the use of RDF and SPARQL. <i>Scientific World Journal, The</i> , 2014 , 2014, 121782	2.2	15
215	FREE LUNCH OR NO FREE LUNCH: THAT IS NOT JUST A QUESTION?. <i>International Journal on Artificial Intelligence Tools</i> , 2012 , 21, 1240010	0.9	15
214	Swarm-Based Metaheuristic Algorithms and No-Free-Lunch Theorems 2012 ,		15
213	Binary Bat Algorithm for Feature Selection 2013 , 225-237		15
212	Optimization in Civil Engineering and Metaheuristic Algorithms: A Review of State-of-the-Art Developments 2019 , 111-137		15
211	Mathematical Foundations of Nature-Inspired Algorithms. <i>SpringerBriefs in Optimization</i> , 2019 ,	0.5	14
210	An empirical study of test effort estimation based on bat algorithm. <i>International Journal of Bio-Inspired Computation</i> , 2014 , 6, 57	2.9	14
209	A bio-inspired algorithm for identification of critical components in the transportation networks. <i>Applied Mathematics and Computation</i> , 2014 , 248, 18-27	2.7	14
208	Metaheuristic Optimization: Nature-Inspired Algorithms and Applications. <i>Studies in Computational Intelligence</i> , 2013 , 405-420	0.8	14
207	Bat Algorithm and Cuckoo Search: A Tutorial. <i>Studies in Computational Intelligence</i> , 2013 , 421-434	0.8	14
206	Random Walks, Lévy Flights, Markov Chains and Metaheuristic Optimization. <i>Lecture Notes in Electrical Engineering</i> , 2013 , 1055-1064	0.2	14
205	Dissolution/precipitation mechanisms for diagenesis in sedimentary basins. <i>Journal of Geophysical Research</i> , 2003 , 108,		14
204	Modelling heat transfer of carbon nanotubes. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2005 , 13, 893-902	2	14

203	Biology-Derived Algorithms in Engineering Optimization. <i>Chapman & Hall/CRC Computer and Information Science Series</i> , 2005 , 32-589-32-600		14
202	Color Image Segmentation By Cuckoo Search. <i>Intelligent Automation and Soft Computing</i> , 2015 , 21, 673-685		13
201	Fusing wearable and remote sensing data streams by fast incremental learning with swarm decision table for human activity recognition. <i>Information Fusion</i> , 2020 , 60, 41-64	16.7	13
200	Multi-Objective Optimization 2014 , 197-211		13
199	Swarm Intelligence and Evolutionary Computation: Overview and Analysis. <i>Studies in Computational Intelligence</i> , 2015 , 1-23	0.8	13
198	Flower Pollination Algorithms 2014 , 155-173		13
197	Selecting Optimal Feature Set in High-Dimensional Data by Swarm Search. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-18	1.1	13
196	Slime mould imitates transport networks in China. <i>International Journal of Intelligent Computing and Cybernetics</i> , 2013 , 6, 232-251	2.2	13
195	Nature-inspired computation and swarm intelligence: a state-of-the-art overview 2020 , 3-18		13
194	Attraction and diffusion in nature-inspired optimization algorithms. <i>Neural Computing and Applications</i> , 2019 , 31, 1987-1994	4.8	13
193	Mathematical modelling and parameter optimization of pulsating heat pipes. <i>Journal of Computational Science</i> , 2014 , 5, 119-125	3.4	12
192	Computational modelling of nonlinear calcium waves. <i>Applied Mathematical Modelling</i> , 2006 , 30, 200-208	1.5	12
191	Gravity Anomaly During the Mohe Total Solar Eclipse and New Constraint on Gravitational Shielding Parameter. <i>Astrophysics and Space Science</i> , 2002 , 282, 245-253	1.6	12
190	Testing non-Newtonian gravitation on a 320 m tower. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992 , 169, 131-133	2.3	12
189	Metaheuristic Optimization of Reinforced Concrete Footings. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 4555-4563	1.9	12
188	Modified bat algorithm with quaternion representation 2015 ,		11
187	Why the Firefly Algorithm Works?. <i>Studies in Computational Intelligence</i> , 2018 , 245-259	0.8	11
186	Analysis of Algorithms 2014 , 23-44		11

185	Computational Optimization, Modelling and Simulation: Past, Present and Future. <i>Procedia Computer Science</i> , 2014 , 29, 754-758	1.6	11
184	Rare Events Forecasting Using a Residual-Feedback GMDH Neural Network 2012 ,		11
183	Small-world networks in geophysics. <i>Geophysical Research Letters</i> , 2001 , 28, 2549-2552	4.9	11
182	Is the Vehicle Routing Problem Dead? An Overview Through Bioinspired Perspective and a Prospect of Opportunities. <i>Springer Tracts in Nature-inspired Computing</i> , 2020 , 57-84	1.8	10
181	Mathematical Analysis of Nature-Inspired Algorithms. <i>Studies in Computational Intelligence</i> , 2018 , 1-25	0.8	10
180	Review and Applications of Metaheuristic Algorithms in Civil Engineering. <i>Modeling and Optimization in Science and Technologies</i> , 2016 , 1-24	0.6	10
179	Parameterless Bat Algorithm and Its Performance Study. <i>Studies in Computational Intelligence</i> , 2016 , 267-276	0.8	10
178	Particle Swarm Optimization 2014 , 99-110		10
177	Bio-inspired computation: success and challenges of IJBIC. <i>International Journal of Bio-Inspired Computation</i> , 2014 , 6, 1	2.9	10
176	Discrete Cuckoo Search algorithm for job shop scheduling problem 2014 ,		10
175	Optimization Algorithms. <i>Studies in Computational Intelligence</i> , 2011 , 13-31	0.8	10
174	Firefly Algorithm and Its Variants in Digital Image Processing: A Comprehensive Review. <i>Springer Tracts in Nature-inspired Computing</i> , 2020 , 1-28	1.8	10
173	Application of Virtual Ant Algorithms in the Optimization of CFRP Shear Strengthened Precracked Structures. <i>Lecture Notes in Computer Science</i> , 2006 , 834-837	0.9	10
172	Bio-Inspired Computation and Optimization 2015 , 1-21		9
171	On Efficiently Solving the Vehicle Routing Problem with Time Windows Using the Bat Algorithm with Random Reinsertion Operators. <i>Studies in Computational Intelligence</i> , 2018 , 69-89	0.8	9
170	Analysis of quality-of-service aware orthogonal frequency division multiple access system considering energy efficiency. <i>IET Communications</i> , 2014 , 8, 1947-1954	1.3	9
169	Traveling salesman problem: a perspective review of recent research and new results with bio-inspired metaheuristics 2020 , 135-164		9
168	Bat Algorithms 2021 , 157-173		9

167	Global Convergence Analysis of Cuckoo Search Using Markov Theory. <i>Studies in Computational Intelligence</i> , 2018 , 53-67	0.8	8
166	A short discussion about Economic optimization design of shell-and-tube heat exchangers by a cuckoo-search-algorithm. <i>Applied Thermal Engineering</i> , 2015 , 76, 535-537	5.8	8
165	A Concurrent Modelling to Generate Alternatives Approach Using the Firefly Algorithm. <i>International Journal of Decision Support System Technology</i> , 2013 , 5, 33-45	0.7	8
164	Optimization and data mining for fracture prediction in geosciences. <i>Procedia Computer Science</i> , 2010 , 1, 1359-1366	1.6	8
163	Metaheuristic Based Optimization for Tuned Mass Dampers Using Frequency Domain Responses. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 271-279	0.4	7
162	Applications and analysis of bio-inspired eagle strategy for engineering optimization. <i>Neural Computing and Applications</i> , 2014 , 25, 411-420	4.8	7
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