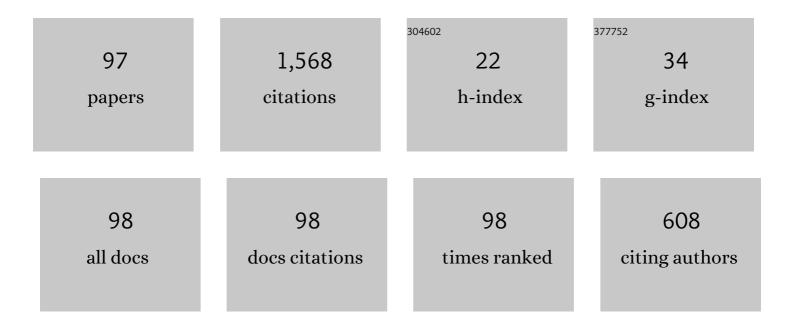
List of Publications by Year in descending order

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ΔΟΠ ΚΠΜΛΟ SAHA

#	Article	IF	CITATIONS
1	A novel enhanced whale optimization algorithm for global optimization. Computers and Industrial Engineering, 2021, 153, 107086.	3.4	116
2	An enhanced whale optimization algorithm for large scale optimization problems. Knowledge-Based Systems, 2021, 233, 107543.	4.0	75
3	COVID-19 X-ray image segmentation by modified whale optimization algorithm with population reduction. Computers in Biology and Medicine, 2021, 139, 104984.	3.9	69
4	Improved backtracking search algorithm for pseudo dynamic active earth pressure on retaining wall supporting c-D�ackfill. Applied Soft Computing Journal, 2017, 52, 885-897.	4.1	62
5	m-MBOA: a novel butterfly optimization algorithm enhanced with mutualism scheme. Soft Computing, 2020, 24, 4809-4827.	2.1	54
6	SHADE–WOA: A metaheuristic algorithm for global optimization. Applied Soft Computing Journal, 2021, 113, 107866.	4.1	54
7	mLBOA: A Modified Butterfly Optimization Algorithm with Lagrange Interpolation for Global Optimization. Journal of Bionic Engineering, 2022, 19, 1161-1176.	2.7	52
8	MPBOA - A novel hybrid butterfly optimization algorithm with symbiosis organisms search for global optimization and image segmentation. Multimedia Tools and Applications, 2021, 80, 12035-12076.	2.6	51
9	HSWOA: An ensemble of hunger games search and whale optimization algorithm for global optimization. International Journal of Intelligent Systems, 2022, 37, 52-104.	3.3	43
10	Improved symbiotic organisms search algorithm for solving unconstrained function optimization. Decision Science Letters, 2016, , 361-380.	0.5	41
11	Dispersion phenomena of reactive solute in a pulsatile flow of three-layer liquids. Physics of Fluids, 2017, 29, .	1.6	40
12	A novel improved whale optimization algorithm to solve numerical optimization and real-world applications. Artificial Intelligence Review, 2022, 55, 4605-4716.	9.7	38
13	A hybrid whale optimization algorithm for global optimization. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 431-467.	3.3	37
14	A Hybrid Symbiosis Organisms Search algorithm and its application to real world problems. Memetic Computing, 2017, 9, 261-280.	2.7	34
15	AHP-TOPSIS Inspired Shopping Mall Site Selection Problem with Fuzzy Data. Mathematics, 2020, 8, 1380.	1.1	34
16	A Hybrid Moth Flame Optimization Algorithm for Global Optimization. Journal of Bionic Engineering, 2022, 19, 1522-1543.	2.7	31
17	Optimization of weight and cost of cantilever retaining wall by a hybrid metaheuristic algorithm. Engineering With Computers, 2022, 38, 2897-2923.	3.5	29
18	An improved symbiotic organisms search algorithm for higher dimensional optimization problems. Knowledge-Based Systems, 2022, 236, 107779.	4.0	29

#	Article	IF	CITATIONS
19	A new hybrid differential evolution algorithm with self-adaptation for function optimization. Applied Intelligence, 2018, 48, 1657-1671.	3.3	27
20	A novel improved symbiotic organisms search algorithm. Computational Intelligence, 2022, 38, 947-977.	2.1	25
21	An ensemble symbiosis organisms search algorithm and its application to real world problems. Decision Science Letters, 2018, , 103-118.	0.5	25
22	Multi-population-based adaptive sine cosine algorithm with modified mutualism strategy for global optimization. Knowledge-Based Systems, 2022, 251, 109326.	4.0	25
23	<inline-formula> <tex-math notation="TeX">\${m TiO}_{2}\$ </tex-math></inline-formula> Nanoparticles Arrays Ultraviolet-A Detector With Au Schottky Contact. IEEE Photonics Technology Letters, 2014, 26, 1065-1068.	1.3	24
24	Transport of a reactive solute in a pulsatile non-Newtonian liquid flowing through an annular pipe. Journal of Engineering Mathematics, 2019, 116, 1-22.	0.6	24
25	A generative adversarial network for synthetization of regions of interest based on digital mammograms. Scientific Reports, 2022, 12, 6166.	1.6	23
26	Parameters Optimization of Geotechnical Problem Using Different Optimization Algorithm. Geotechnical and Geological Engineering, 2015, 33, 1235-1253.	0.8	21
27	Optimal location selection for installation of surface water treatment plant by Gini coefficient-based analytical hierarchy process. Environment, Development and Sustainability, 2020, 22, 4073-4099.	2.7	21
28	A quantum mutation-based backtracking search algorithm. Artificial Intelligence Review, 2022, 55, 3019-3073.	9.7	20
29	Application of Novel MCDM for Location Selection of Surface Water Treatment Plant. IEEE Transactions on Engineering Management, 2022, 69, 1865-1877.	2.4	18
30	An enhanced moth flame optimization with mutualism scheme for function optimization. Soft Computing, 2022, 26, 2855-2882.	2.1	18
31	Hydrodynamic dispersion of reactive solute in a Hagen–Poiseuille flow of a layered liquid. Chinese Journal of Chemical Engineering, 2017, 25, 862-873.	1.7	17
32	A novel hybrid backtracking search optimization algorithm for continuous function optimization. Decision Science Letters, 2019, , 163-174.	0.5	17
33	Real time reliability monitoring of hydroâ€power plant by combined cognitive decisionâ€making technique. International Journal of Energy Research, 2019, 43, 4912-4939.	2.2	16
34	Comparative Performance Analysis of Differential Evolution Variants on Engineering Design Problems. Journal of Bionic Engineering, 2022, 19, 1140-1160.	2.7	15
35	On transport of reactive solute in a pulsatile Casson fluid flow through an annulus. International Journal of Computer Mathematics, 2020, 97, 2303-2319.	1.0	14
36	Selection of features for analysis of reliability of performance in hydropower plants: a multi-criteria decision making approach. Environment, Development and Sustainability, 2020, 22, 3239-3265.	2.7	13

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37	Mathematical model on magneto-hydrodynamic dispersion in a porous medium under the influence of bulk chemical reaction. Korea Australia Rheology Journal, 2020, 32, 287-299.	0.7	13
38	Performance up-gradation of Symbiotic Organisms Search by Backtracking Search Algorithm. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 5505-5546.	3.3	13
39	Evaluating the Preparedness of Indian States against COVIDâ€19 Pandemic Risk: A Fuzzy Multiâ€criteria Decisionâ€Making Approach. Risk Analysis, 2022, 42, 85-96.	1.5	13
40	Taylor dispersion in non-Darcy porous media with bulk chemical reaction: a model for drug transport in impeded blood vessels. Journal of Engineering Mathematics, 2021, 127, 1.	0.6	12
41	On Dispersion in Oscillatory Annular Flow Driven Jointly by Pressure Pulsation and Wall Oscillation. Journal of Applied Fluid Mechanics, 2017, 10, 1487-1500.	0.4	12
42	Effect of multiple reactions on the transport coefficients in pulsatile flow through an annulus. International Communications in Heat and Mass Transfer, 2020, 110, 104369.	2.9	11
43	Hydrodynamic Dispersion of Solute under Homogeneous and Heterogeneous Reactions. International Journal of Heat and Technology, 2019, 37, 387-397.	0.3	11
44	PERFORMANCE EFFICIENCY ANALYSIS OF WATER TREATMENT PLANTS BY USING MCDM AND NEURAL NETWORK MODEL. MATTER International Journal of Science and Technology, 2017, 3, 27-35.	0.1	11
45	BOSCA—A Hybrid Butterfly Optimization Algorithm Modified with Sine Cosine Algorithm. Advances in Intelligent Systems and Computing, 2021, , 360-372.	0.5	10
46	A new ensemble algorithm of differential evolution and backtracking search optimization algorithm with adaptive control parameter for function optimization. International Journal of Industrial Engineering Computations, 2016, , 323-338.	0.4	9
47	Realization of Basic Gates Using Universal Gates Using Quantum-Dot Cellular Automata. Lecture Notes in Networks and Systems, 2018, , 541-549.	0.5	9
48	Prediction of Operation Efficiency of Water Treatment Plant with the Help of Multi-criteria Decision-making. Water Conservation Science and Engineering, 2018, 3, 79-90.	0.9	9
49	Glancing angle synthesized indium nanoparticles covered TiO2 thin film and its structural, optoelectronic properties. Applied Physics A: Materials Science and Processing, 2015, 118, 373-379.	1.1	8
50	Unsteady Convective Diffusion with Interphase Mass Transfer in Casson Liquid. Periodica Polytechnica: Chemical Engineering, 2018, 62, 215.	0.5	8
51	Towards the realization of regular clocking-based QCA circuits using genetic algorithm. Computers and Electrical Engineering, 2022, 97, 107640.	3.0	8
52	MAAS: A mobile cloud assisted architecture for handling emergency situations. International Journal of Communication Systems, 2020, 33, e3950.	1.6	7
53	An efficient, scalable, regular clocking scheme based on quantum dot cellular automata. Analog Integrated Circuits and Signal Processing, 2021, 107, 659-670.	0.9	7
54	Systematic cell placement in quantumâ€dot cellular automata embedding underlying regular clocking circuit. IET Circuits, Devices and Systems, 2021, 15, 156-167.	0.9	7

#	Article	IF	CITATIONS
55	A Hybrid TLBO Algorithm by Quadratic Approximation for Function Optimization and Its Application. Intelligent Systems Reference Library, 2020, , 291-341.	1.0	7
56	A Bio-Inspired Multi-Population-Based Adaptive Backtracking Search Algorithm. Cognitive Computation, 2022, 14, 900-925.	3.6	7
57	Pseudodynamic Bearing Capacity Analysis of Shallow Strip Footing Using the Advanced Optimization Technique "Hybrid Symbiosis Organisms Search Algorithm―with Numerical Validation. Advances in Civil Engineering, 2018, 2018, 1-18.	0.4	6
58	Existence and Stability of Difference Equation in Imprecise Environment. Nonlinear Engineering, 2018, 7, 263-271.	1.4	6
59	Study on Temperature Stability and Fault Tolerance of Adder in Quantum-dot Cellular Automata. , 2019, , .		6
60	Real-time monitoring of power production in modular hydropower plant: most significant parameter approach. Environment, Development and Sustainability, 2020, 22, 4025-4042.	2.7	6
61	An Enhanced Butterfly Optimization Algorithm for Function Optimization. Advances in Intelligent Systems and Computing, 2020, , 593-603.	0.5	6
62	Effect of Annealing on Optical, Electrical and Charge Trapping Properties of TiO ₂ NPs Arrays. Journal of Nanoscience and Nanotechnology, 2017, 17, 1300-1306.	0.9	5
63	Efficiency Assignment of Hydropower Plants by DEMATEL-MAPPAC Approach. Water Conservation Science and Engineering, 2018, 3, 91-97.	0.9	5
64	Climate Change and Urbanization Impact on Hydropower Plant by Neural Network-Based Decision-Making Methods: Identification of the Most Significant Parameter. Water Conservation Science and Engineering, 2018, 3, 169-179.	0.9	5
65	A new parameter setting-based modified differential evolution for function optimization. International Journal of Modeling, Simulation, and Scientific Computing, 2020, 11, 2050029.	0.9	5
66	On Dispersion of a Reactive Solute in a Pulsatile Flow of a Two-Fluid Model. Journal of Applied Fluid Mechanics, 2019, 12, 987-1000.	0.4	5
67	Solution of second order linear fuzzy difference equation by Lagrange's multiplier method. Journal of Soft Computing and Applications, 2016, 2016, 11-27.	0.0	5
68	Location selection for Installation of Surface Water Treatment Plant by Applying a New Sinusoidal Analytical Hierarchy Process. International Journal of Energy Optimization and Engineering, 2019, 8, 20-42.	0.4	4
69	Regular Clocking based Emerging Technique in QCA Targeting Low Power Nano Circuit. International Journal of Electronics, 0, , 1-23.	0.9	4
70	hBOSOS: An Ensemble of Butterfly Optimization Algorithm and Symbiosis Organisms Search for Global Optimization. Advances in Intelligent Systems and Computing, 2020, , 579-588.	0.5	4
71	CFD and Optimization Study of Frictional Pressure Drop Through Bends. Recent Patents on Biotechnology, 2019, 13, 74-86.	0.4	4
72	Synthesis of Biocompatible TiO ₂ Nanodots: Glancing Angle Deposition Technique. Journal of Nanoscience and Nanotechnology, 2016, 16, 8705-8710.	0.9	3

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73	Recognising the Risk Factors of Water Treatment Plants Using a Hybrid MCDM Method. Environmental Policy and Law, 2018, 48, 74-79.	0.2	3
74	Development of Financial Liability Index for Hydropower Plant with MCDM and Neuro-genetic Models. Water Resources Development and Management, 2018, , 71-105.	0.3	3
75	Ranking of Indicators for Estimation of Plant Efficiency in Hydropower Plants by a Bootstrap MCDM Approach. International Journal of Energy Optimization and Engineering, 2019, 8, 69-92.	0.4	3
76	CFA: Toward the Realization of Conservative Full Adder in QCA with Enhanced Reliability. Journal of Circuits, Systems and Computers, 2021, 30, 2150172.	1.0	3
77	ESTIMATION OF PRESSURE DROP FOR NON-NEWTONIAN LIQUID FLOW THROUGH BENDS USING ADAPTIVE NON-PARAMETRIC MODEL. , 2020, 47, 59-69.		3
78	SensMask: An Intelligent Mask for Assisting Patients during COVID-19 Emergencies. Computacion Y Sistemas, 2021, 25, .	0.2	3
79	Regular clocking-based Automated Cell Placement technique in QCA targeting sequential circuit. Computers and Electrical Engineering, 2022, 98, 107668.	3.0	3
80	An Optimization Model Using the Standard Deviation Method and Multiple Decision Making Statistics in Water Treatment Plants in Northeastern India. Asian Journal of Water, Environment and Pollution, 2017, 14, 27-37.	0.4	2
81	A Study on Solute Dispersion in a Three Layer Blood-like Liquid Flowing through a Rigid Artery. Periodica Polytechnica, Mechanical Engineering, 2017, 61, 173.	0.8	2
82	CFD Analysis of Non-Newtonian Pseudo Plastic Liquid Flow through Bends. Periodica Polytechnica, Mechanical Engineering, 2017, 61, 184.	0.8	2
83	Identification of Most Significant Parameter of Impact of Climate Change and Urbanization on Operational Efficiency of Hydropower Plant. International Journal of Energy Optimization and Engineering, 2019, 8, 43-68.	0.4	2
84	Regular clocking scheme based design of cost-efficient comparator in QCA. Indonesian Journal of Electrical Engineering and Computer Science, 2021, 21, 44.	0.7	2
85	Some remarks on fuzzy infi topological spaces. Proyecciones, 2021, 40, 399-415.	0.1	2
86	Dispersion of Reactive Species in Casson Fluid Flow. Indian Journal of Pure and Applied Mathematics, 2020, 51, 1451-1469.	0.3	2
87	Retention of Charge in TiO ₂ Nanoparticles/SiO <i>_x</i> Thin Film System. Advanced Science Letters, 2016, 22, 141-144.	0.2	2
88	Continuous review inventory system for intuitionistic fuzzy random demand under service level constraint. Sadhana - Academy Proceedings in Engineering Sciences, 2022, 47, .	0.8	2
89	CFA: Toward the Realization of Conservative Full Adder in QCA with Enhanced Reliability. Journal of Circuits, Systems and Computers, 2021, 30, 2192001.	1.0	1
90	Intutionistic Fuzzy Difference Equation. Advances in Computational Intelligence and Robotics Book Series, 2017, , 112-131.	0.4	1

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91	CFD Analysis for Non-Newtonian Pseudo Plastic Liquid Flow Through Small Diameter U-BEND. Journal of Applied Fluid Mechanics, 2017, 10, 971-987.	0.4	1
92	The hDEBSA Global Optimization Method: A Comparative Study on CEC2014 Test Function and Application to Geotechnical Problem. Studies in Computational Intelligence, 2021, , 225-258.	0.7	1
93	Median based conversion of SGPA into percentage by cognitive methods. Applied Mathematics and Computation, 2015, 266, 1153-1162.	1.4	0
94	A new TOPSIS-based approach to evaluate the economic indicators in the healthcare system and the impact of biotechnology. , 2021, , 407-419.		0
95	A Note on Strongly Lower Semi-Continuous Functions and the Induced Fuzzy Topological Space Generated by Them. Journal of Mathematical and Fundamental Sciences, 2013, 45, 61-82.	0.3	0
96	Countable Fuzzy Topological Space and Countable Fuzzy Topological Vector Space. Journal of Mathematical and Fundamental Sciences, 2015, 47, 154-166.	0.3	0
97	Identification of Most Significant Parameter of Impact of Climate Change and Urbanization on Operational Efficiency of Hydropower Plant. , 2022, , 1320-1350.		0