

Shiyou Yang

List of Publications by Year in Descending Order

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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.

100
papers

1,130
citations

19
h-index

30
g-index

130
ext. papers

1,378
ext. citations

2
avg, IF

4.58
L-index

#	Paper	IF	Citations
100	A Novel Methodology for Robust Topology Optimization Considering Manufacturing Errors and Topology Deviations. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	
99	A Block Arnoldi Algorithm Based Reduced-Order Model Applied to Large-Scale Algebraic Equations of a 3-D Field Problem. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9435	2.6	
98	Time-Domain Finite-Element Method for Near-Field Applications With Magnetic Metamaterials. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	
97	A Multimodal Smart Quantum Particle Swarm Optimization for Electromagnetic Design Optimization Problems. <i>Energies</i> , 2021 , 14, 4613	3.1	1
96	Metamaterial-Core Probes for Nondestructive Eddy Current Testing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-9	5.2	2
95	An Adaptive High-Order Transient Algorithm to Solve Large-Scale Anisotropic Maxwell's Equations. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	7
94	A Novel 3-D Topology Optimization Methodology Based on the Min-Cut Theorem. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	2
93	Thin Film Magnetic Core Microinductor With Stacked Windings. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 4237-4241	2.9	0
92	A Multimodal Improved Particle Swarm Optimization for High Dimensional Problems in Electromagnetic Devices. <i>Energies</i> , 2021 , 14, 8575	3.1	0
91	A Multi-Objective Topology Optimization Methodology Based on Pareto Optimal Min-Cut. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-5	2	11
90	A Broadband Enhanced Nodal-Order Reduction Methodology for Large-Scale Equation Sets of 3-D Transient Field Problems. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	1
89	A Network Topological Approach-Based Transient 3-D Electrothermal Model of Insulated-Gate Bipolar Transistor. <i>IEEE Transactions on Magnetics</i> , 2020 , 56, 1-4	2	3
88	A Novel Topology Optimization Methodology Based on Energy Minimization Via ESwap Move. <i>IEEE Access</i> , 2020 , 8, 162041-162048	3.5	1
87	Practical Model for Metamaterials in Wireless Power Transfer Systems. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8506	2.6	3
86	Reconstruction of cracks in a carbon fiber-reinforced polymer laminate plate from signals of eddy current testing. <i>Journal of Composite Materials</i> , 2020 , 54, 3527-3536	2.7	2
85	An Integral Equation Hybrid Method for the Impedance Calculation of the Grid Power Distribution Network With an Arbitrary Shape. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	0
84	A robust methodology for design optimizations of electromagnetic devices under uncertainties. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019 , 59, 71-78	0.4	1

83	Stability of Properties on Magnetic Ribbon and Cores With Domestic Fe-Based Amorphous Alloy for HTS AMDT. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	1
82	Coupled distribute circuit-3D FEM model to simulate the transient electromagnetic performances of IGBTs. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019 , 59, 39-46	0.4	
81	A vector wind driven optimization algorithm for multi-objective optimizations of electromagnetic devices. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019 , 59, 55-62	0.4	
80	A Quantum Particle Swarm Optimizer With Enhanced Strategy for Global Optimization of Electromagnetic Devices. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	19
79	A New Methodology Based on Multi-Label Graph Cut Theorem for Multi-Phase Topology Optimization. <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	6
78	Detection and Analysis of Fault for HTS AMDT Cores by Magnetostriction-Induced Vibration. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	1
77	A methodology for topology optimization based on level set method and its application to piezoelectric energy harvester design. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019 , 59, 79-85	0.4	1
76	A New Topology Optimization Methodology Based on Constraint Maximum-Weight Connected Graph Theorem. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	6
75	A Kriging-Assisted Light Beam Search Method for Multi-Objective Electromagnetic Inverse Problems. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	10
74	A 2-D Nonlinear Ambipolar Diffusion Equation Model of an IGBT and Its Numerical Solution Methodology. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	1
73	. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	3
72	A Real Coded Vector Population-Based Incremental Learning Algorithm for Multi-Objective Optimizations of Electromagnetic Devices. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	4
71	A modified PSO algorithm with dynamic parameters for solving complex engineering design problem. <i>International Journal of Computer Mathematics</i> , 2018 , 95, 2308-2329	1.2	17
70	A Quantum Particle Swarm Optimization Method With Fitness Selection Methodology for Electromagnetic Inverse Problems. <i>IEEE Access</i> , 2018 , 6, 63155-63163	3.5	15
69	An Efficient Direct Search Methodology for Robust Optimization of Electromagnetic Devices. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	1
68	. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	1
67	A Wind Driven Optimization-Based Methodology for Robust Optimizations of Electromagnetic Devices under Interval Uncertainty. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	3
66	Incorporating Light Beam Search in a Vector Normal Boundary Intersection Method for Linear Antenna Array Optimization. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	5

65	. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	9
64	Design Optimization and Comparative Study of Novel Magnetic-Geared Permanent Magnet Machines. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	19
63	A Coupled Circuit-Ambipolar Diffusion Equation Model and Its Solution Methodology for Insulated Gate Bipolar Transistors. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	6
62	A modified QPSO algorithm applied to engineering inverse problems in electromagnetics. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2017 , 54, 107-121	0.4	9
61	Independent Current Control of Dual Parallel SRM Drive Using a Public Current Sensor. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 392-401	5.5	12
60	A Modified Particle Swarm Optimization Algorithm for Global Optimizations of Inverse Problems. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	43
59	Iron Loss Separation in High Frequency Using Numerical Techniques. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	2
58	An Improved Light Beam Search Method in Multiobjective Inverse Problem Optimizations. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	5
57	Fault diagnosis scheme for open-circuit faults in switched reluctance motor drives using fast Fourier transform algorithm with bus current detection. <i>IET Power Electronics</i> , 2016 , 9, 20-30	2.2	49
56	A Hybridized Vector Optimal Algorithm for Multi-Objective Optimal Designs of Electromagnetic Devices. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	3
55	A New Methodology for Robust Optimizations of Optimal Design Problems Under Interval Uncertainty. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	6
54	A Vector Tabu Search Algorithm With Enhanced Searching Ability for Pareto Solutions and Its Application to Multiobjective Optimizations. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	6
53	Low-cost direct instantaneous torque control for switched reluctance motors with bus current detection under soft-chopping mode. <i>IET Power Electronics</i> , 2016 , 9, 482-490	2.2	31
52	Investigation of Skewing Effects on the Vibration Reduction of Three-Phase Switched Reluctance Motors. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-9	2	85
51	An Improved Evolution Strategy and Its Application to Inverse Scattering in Microwave Imaging. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	3
50	Phase Current Reconstruction of Switched Reluctance Motors From DC-Link Current Under Double High-Frequency Pulses Injection. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 3265-3276	8.9	51
49	A Direct Coupled Solution Methodology for Efficient Robust Optimizations of Inverse Problems Under Uncertainty. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	
48	Temperature Field Optimization and Magnetic Nanoparticles Optimal Approximation of MFH for Cancer Therapy. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	1

47	A Methodology Based on Mesh Morphing Algorithm and Improved Tabu Algorithm for Non-linear Inverse Scattering. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	2
46	Online Sensorless Position Estimation for Switched Reluctance Motors Using One Current Sensor. <i>IEEE Transactions on Power Electronics</i> , 2015 , 1-1	7.2	38
45	Fast Frequency-Domain Modeling of Return Stroke Including Influence of Lossy Ground. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 149-152	2	2
44	A robust optimal methodology using ant colony algorithm for inverse problems. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014 , 45, 703-708	0.4	5
43	Design and analysis on switched reluctance motor system using field-circuit coupled method 2014 ,		5
42	Suppressing control of rising bus voltage for switched reluctance motor in braking operation 2014 ,		1
41	Full 3D eddy current and temperature field analysis of large hydro-generators in different operating conditions 2014 ,		1
40	A Quantum-Based Particle Swarm Optimization Algorithm Applied to Inverse Problems. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2069-2072	2	20
39	A Quantum-Inspired Evolutionary Algorithm for Multi-Objective Design. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1609-1612	2	7
38	An Ant Colony Algorithm for Both Robust and Global Optimizations of Inverse Problems. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2077-2080	2	6
37	A Fast Robust Optimization Methodology Based on Polynomial Chaos and Evolutionary Algorithm for Inverse Problems. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 259-262	2	23
36	Efficient robust optimization based on polynomial chaos and tabu search algorithm. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2012 , 39, 145-150	0.4	5
35	Many-Objective Optimization of Antenna Arrays Using an Improved Multiple-Single-Objective Pareto Sampling Algorithm. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 399-402	3.8	3
34	An quantum-inspired evolutionary algorithm applied to design optimizations of electromagnetic devices. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2012 , 39, 89-95	0.4	2
33	An improved normal boundary intersection method for multiobjective inverse problems. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2012 , 39, 121-127	0.4	5
32	Calculation and control of stray losses in power transformer. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2012 , 39, 835-841	0.4	3
31	A Modified Tabu Search Method Applied to Inverse Problems. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 1234-1237	2	14
30	Initial Position Estimation in SRM Using Bootstrap Circuit Without Predefined Inductance Parameters. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 2449-2456	7.2	54

29	The cross-entropy method and its application to minimize the ripple of magnetic levitation forces of a maglev system. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2010 , 33, 1063-1068	0.4	8
28	Robust oriented particle swarm optimization algorithm applied to inverse problems. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2010 , 33, 1057-1062	0.4	4
27	Multi-objective design optimization of an inverted-S antenna. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2010 , 33, 1049-1055	0.4	8
26	A Population-Based Incremental Learning Method for Robust Optimal Solutions. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 3189-3192	2	4
25	The Cross-Entropy Method and Its Application to Inverse Problems. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 3401-3404	2	16
24	Multiobjective Synthesis of Antenna Arrays Using a Vector Tabu Search Algorithm. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009 , 8, 947-950	3.8	20
23	An artificial bee colony algorithm for inverse problems. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2009 , 31, 181-192	0.4	22
22	Application of Support Vector Machines to Accelerate the Solution Speed of Metaheuristic Algorithms. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 1502-1505	2	6
21	An Efficient Tabu Search Algorithm for Robust Solutions of Electromagnetic Design Problems. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1042-1045	2	11
20	Incorporating A Priori Preferences in a Vector PSO Algorithm to Find Arbitrary Fractions of the Pareto Front of Multiobjective Design Problems. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1038-1041	2	14
19	A Computationally Efficient Vector Optimizer Using Ant Colony Optimizations Algorithm for Multobjective Designs. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1034-1037	2	5
18	Multiobjective Optimization Based on Response Surface Model and Its Application to Engineering Shape Design. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1006-1009	2	12
17	3-D FEM Analysis in Electromagnetic System Considering Vector Hysteresis and Anisotropy. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 890-893	2	5
16	An improved vector evolutionary algorithm for multiobjective designs of electromagnetic devices. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2007 , 25, 711-715	0.4	1
15	An improved particle swarm optimization algorithm for global optimizations of electromagnetic devices. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2007 , 25, 723-728	0.4	10
14	A fast global optimal method based on combinations of MLS and PSO algorithm. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2007 , 25, 759-764	0.4	1
13	A Global Optimization Algorithm Based on $\$C^{\{1\}}\$$ Piecewise Response Surface Patches. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1629-1632	2	2
12	A modified ant colony optimization algorithm modeled on tabu-search methods. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1195-1198	2	19

11	A particle swarm optimization method with enhanced global search ability for design optimizations of electromagnetic devices. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1107-1110	2	61
10	A fast global optimizer based on improved CS-RBF and stochastic optimal algorithm. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1175-1178	2	3
9	3-D eddy current analysis in the end region of a turbogenerator by using reduced magnetic vector potential. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1323-1326	2	21
8	Refinement computations of electromagnetic fields using FE and meshless methods. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 1456-1459	2	6
7	A particle swarm optimization-based method for multiobjective design optimizations. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 1756-1759	2	150
6	A fast global optimal technique based on combinations of improved radial basis functions and tabu search method. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2004 , 19, 515-520	0.4	
5	A meshless collocation method based on radial basis functions and wavelets. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 1021-1024	2	23
4	A simulated annealing algorithm for multiobjective optimizations of electromagnetic devices. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 1285-1288	2	23
3	A combined wavelet-element free Galerkin method for numerical calculations of electromagnetic fields. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 1413-1416	2	11
2	A tabu based algorithm for multiobjective optimizations of electromagnetic devices. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2002 , 16, 207-214	0.4	2
1	Study of Magnet Shifting for Reduction of Cogging Torque in Permanent Magnet Motors		2