Zuomin Dong

List of Publications by Year
in descending order

55 papers	1,486 citations	361296 20 h-index	330025 37 g-index
55 all docs	55 docs citations	55 times ranked	1297 citing authors

#	ARTICLE	IF	CITATIONS
1	ADAPTIVE RESPONSE SURFACE METHOD - A GLOBAL OPTIMIZATION SCHEME FOR APPROXIMATION-BASED DESIGN PROBLEMS. Engineering Optimization, 2001, 33, 707-733.	1.5	218
2	Powertrain architectures of electrified vehicles: Review, classification and comparison. Journal of the Franklin Institute, 2015, 352, 425-448.	1.9	122
3	Bi-level planning for integrated energy systems incorporating demand response and energy storage under uncertain environments using novel metamodel. CSEE Journal of Power and Energy Systems, 2018, 4, 155-167.	1.7	94
4	Trends, features, and tests of common and recently introduced global optimization methods. Engineering Optimization, 2010, 42, 691-718.	1.5	90
5	Load profile based empirical model for the lifetime prediction of an automotive PEM fuel cell. International Journal of Hydrogen Energy, 2017, 42, 11868-11878.	3.8	81
6	Automated surface subdivision and tool path generation for -axis CNC machining of sculptured parts. Computers in Industry, 2003, 50, 319-331.	5.7	71
7	Embedded feature-selection support vector machine for driving pattern recognition. Journal of the Franklin Institute, 2015, 352, 669-685.	1.9	60
8	Multi-start Space Reduction (MSSR) surrogate-based global optimization method. Structural and Multidisciplinary Optimization, 2016, 54, 907-926.	1.7	56
9	SCGOSR: Surrogate-based constrained global optimization using space reduction. Applied Soft Computing Journal, 2018, 65, 462-477.	4.1	55
10	Surrogate-assisted grey wolf optimization for high-dimensional, computationally expensive black-box problems. Swarm and Evolutionary Computation, 2020, 57, 100713.	4.5	53
11	Integrated design and control optimization of fuel cell hybrid mining truck with minimized lifecycle cost. Applied Energy, 2020, 270, 115164.	5.1	46
12	Hybrid surrogate-based optimization using space reduction (HSOSR) for expensive black-box functions. Applied Soft Computing Journal, 2018, 64, 641-655.	4.1	41
13	Optimal energy management with balanced fuel economy and battery life for large hybrid electric mining truck. Journal of Power Sources, 2020, 454, 227948.	4.0	41
14	Metamodelling and search using space exploration and unimodal region elimination for design optimization. Engineering Optimization, 2010, 42, 517-533.	1.5	34
15	Impacts of Two-Speed Gearbox on Electric Vehicle's Fuel Economy and Performance. , 0, , .		31
16	Ensemble of surrogate based global optimization methods using hierarchical design space reduction. Structural and Multidisciplinary Optimization, 2018, 58, 537-554.	1.7	31
17	Emerging smart grid technology for mitigating global warming. International Journal of Energy Research, 2015, 39, 1742-1756.	2.2	30
18	Optimal energy management strategy of <scp>fuelâ€cell</scp> battery hybrid electric mining truck to achieve minimum lifecycle operation costs. International Journal of Energy Research, 2020, 44, 10797-10808.	2.2	28

#	Article	IF	Citations
19	Li-Ion Battery Performance Degradation Modeling for the Optimal Design and Energy Management of Electrified Propulsion Systems. Energies, 2020, 13, 1629.	1.6	25
20	Design, analysis and modeling of a novel hybrid powertrain system based on hybridized automated manual transmission. Mechanical Systems and Signal Processing, 2017, 93, 688-705.	4.4	22
21	Surrogate-based optimization with clustering-based space exploration for expensive multimodal problems. Structural and Multidisciplinary Optimization, 2018, 57, 1553-1577.	1.7	22
22	Well-to-Propeller environmental assessment of natural gas as a marine transportation fuel in British Columbia, Canada. Energy Reports, 2020, 6, 802-812.	2.5	22
23	A Comparative Study on Recently-Introduced Nature-Based Global Optimization Methods in Complex Mechanical System Design. Algorithms, 2017, 10, 120.	1.2	17
24	Application and Comparison of Metaheuristic and New Metamodel Based Global Optimization Methods to the Optimal Operation of Active Distribution Networks. Energies, 2018, 11, 85.	1.6	17
25	Optimal control of natural gas compression engine hybrid electric mining trucks for balanced fuel efficiency and overall emission improvement. Energy, 2019, 189, 116276.	4.5	15
26	A New Principle of CNC Tool Path Planning for Three-Axis Sculptured Part Machining—A Steepest-Ascending Tool Path. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2004, 126, 515-523.	1.3	14
27	Application of SEUMRE global optimization algorithm in automotive magnetorheological brake design. Structural and Multidisciplinary Optimization, 2011, 44, 761-772.	1.7	14
28	A 3D curvature gouge detection and elimination method for 5-axis CNC milling of curved surfaces. International Journal of Advanced Manufacturing Technology, 2007, 33, 368-378.	1.5	13
29	Review of multi-regime hybrid vehicle powertrain architecture. International Journal of Electric and Hybrid Vehicles, 2008, 1, 248.	0.2	13
30	A new Kriging—Bat Algorithm for solving computationally expensive black-box global optimization problems. Engineering Optimization, 2019, 51, 265-285.	1.5	12
31	Modeling and simulation of a hybrid electric propulsion system of a green ship. , 2014, , .		9
32	Optimization of Hybrid Energy Storage Systems for Vehicles with Dynamic On-Off Power Loads Using a Nested Formulation. Energies, 2018, 11, 2699.	1.6	9
33	Dynamic modelling and simulation of a multi-regime hybrid vehicle powertrain architecture. International Journal of Electric and Hybrid Vehicles, 2008, 1, 188.	0.2	8
34	DESIGN OPTIMIZATION OF A COMPLEX MECHANICAL SYSTEM USING ADAPTIVE RESPONSE SURFACE METHOD. Transactions of the Canadian Society for Mechanical Engineering, 2000, 24, 295-306.	0.3	7
35	Chip volume and cutting force calculations in 5-axis CNC machining of free-form surfaces using flat-end mills. International Journal of Advanced Manufacturing Technology, 2017, 90, 1145-1154.	1.5	7
36	Recent Advance of Hybrid Energy Storage Systems for Electrified Vehicles. , 2018, , .		7

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37	Fuel Selections for Electrified Vehicles: A Well-to-Wheel Analysis. World Electric Vehicle Journal, 2021, 12, 151.	1.6	7
38	Design optimization of low impact transmission foundation for forging hammers. Engineering Computations, 2006, 23, 166-186.	0.7	6
39	Optimal Power Flow Using a Novel Metamodel Based Global Optimization Method. Energy Procedia, 2018, 145, 301-306.	1.8	6
40	Global Optimization Using Mixed Surrogates and Space Elimination in Computationally Intensive Engineering Designs. International Journal for Computational Methods in Engineering Science and Mechanics, 2012, 13, 272-289.	1.4	4
41	Metamodel multi-objective optimization tool for mechatronic system design. , 2012, , .		4
42	Development of a metamodel assisted sampling approach to aerodynamic shape optimization problems. Journal of Mechanical Science and Technology, 2015, 29, 2013-2024.	0.7	4
43	Numerical simulation of chip ploughing volume in micro ball-end mill machining. International Journal of Precision Engineering and Manufacturing, 2017, 18, 915-922.	1.1	4
44	Numerical Simulation of Chip Ploughing Volume and Forces in 5-axis CNC Micro-milling Using Flat-end Mills. Procedia Manufacturing, 2016, 5, 348-361.	1.9	3
45	Optimal tool orientation generation and chip volume/cutting force predictions for 5-axis CNC machining of curved surfaces using flat-end mills. Computer-Aided Design and Applications, 2017, 14, 331-342.	0.4	3
46	Fuzzy Modeling in Response Surface Method for Complex Computer Model Based Design Optimization. , 2006, , .		2
47	Design and Analysis of a Hybrid Backup Power System for a High-Rise and High-Speed Elevator. , 2008, , .		2
48	Global Optimization Using Mixed Surrogate Models for Computation Intensive Designs. , 2010, , .		2
49	3-Axis Milling Algorithm Development for Carbon Fiber Reinforced Polymer (CFRP) Composites. Journal of the Korean Society for Precision Engineering, 2016, 33, 447-452.	0.1	2
50	Modeling and simulation of integrated coal gasification and solid oxide fuel cell system. , 2010, , .		1
51	Performance Modeling and Benchmark Analysis of an Advanced 4WD Series-Parallel PHEV Using Dynamic Programming. , 2015, , .		1
52	Quality measurement of production process plan using tolerance chart. , 2005, , .		0
53	Modeling and simulation of anode-supported planar intermediate temperature solid oxide fuel cell for integrated gasification fuel cell application. , 2010, , .		0
54	Optimal Operation of a Self-regulating Smart Distribution System with Wind Energy Integration and Demand Response. Lecture Notes in Energy, 2017, , 707-734.	0.2	0

#	Article	IF	Citations
55	Nested models and optimization for the optimal design of complex multiphysics systems under optimal operations. AIP Conference Proceedings, 2019, , .	0.3	0