Zuomin Dong

List of Publications by Year
in descending order

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55	1,486	361296	330025
papers	citations	20 h-index	37 g-index

55	55	55	1297
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fuel Selections for Electrified Vehicles: A Well-to-Wheel Analysis. World Electric Vehicle Journal, 2021, 12, 151.	1.6	7
2	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
3	Li-Ion Battery Performance Degradation Modeling for the Optimal Design and Energy Management of Electrified Propulsion Systems. Energies, 2020, 13, 1629.	1.6	25
4	Surrogate-assisted grey wolf optimization for high-dimensional, computationally expensive black-box problems. Swarm and Evolutionary Computation, 2020, 57, 100713.	4.5	53
5	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
6	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
7	Integrated design and control optimization of fuel cell hybrid mining truck with minimized lifecycle cost. Applied Energy, 2020, 270, 115164.	5.1	46
8	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
9	Nested models and optimization for the optimal design of complex multiphysics systems under optimal operations. AIP Conference Proceedings, 2019, , .	0.3	0
10	A new Krigingâ€“Bat Algorithm for solving computationally expensive black-box global optimization problems. Engineering Optimization, 2019, 51, 265-285.	1.5	12
11	Ensemble of surrogate based global optimization methods using hierarchical design space reduction. Structural and Multidisciplinary Optimization, 2018, 58, 537-554.	1.7	31
12	SCGOSR: Surrogate-based constrained global optimization using space reduction. Applied Soft Computing Journal, 2018, 65, 462-477.	4.1	55
13	Hybrid surrogate-based optimization using space reduction (HSOSR) for expensive black-box functions. Applied Soft Computing Journal, 2018, 64, 641-655.	4.1	41
14	Surrogate-based optimization with clustering-based space exploration for expensive multimodal problems. Structural and Multidisciplinary Optimization, 2018, 57, 1553-1577.	1.7	22
15	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
16	Optimal Power Flow Using a Novel Metamodel Based Global Optimization Method. Energy Procedia, 2018, 145, 301-306.	1.8	6
17	Recent Advance of Hybrid Energy Storage Systems for Electrified Vehicles. , 2018, , .		7
18	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

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19	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
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	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
22	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
23	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
24	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
25	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
26	A Comparative Study on Recently-Introduced Nature-Based Global Optimization Methods in Complex Mechanical System Design. Algorithms, 2017, 10, 120.	1.2	17
27	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
28	Multi-start Space Reduction (MSSR) surrogate-based global optimization method. Structural and Multidisciplinary Optimization, 2016, 54, 907-926.	1.7	56
29	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
30	Emerging smart grid technology for mitigating global warming. International Journal of Energy Research, 2015, 39, 1742-1756.	2.2	30
31	Performance Modeling and Benchmark Analysis of an Advanced 4WD Series-Parallel PHEV Using Dynamic Programming. , 2015, , .		1
32	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
33	Embedded feature-selection support vector machine for driving pattern recognition. Journal of the Franklin Institute, 2015, 352, 669-685.	1.9	60
34	Powertrain architectures of electrified vehicles: Review, classification and comparison. Journal of the Franklin Institute, 2015, 352, 425-448.	1.9	122
35	Modeling and simulation of a hybrid electric propulsion system of a green ship. , 2014, , .		9
36	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

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37	Metamodel multi-objective optimization tool for mechatronic system design. , 2012, , .		4
38	Application of SEUMRE global optimization algorithm in automotive magnetorheological brake design. Structural and Multidisciplinary Optimization, 2011, 44, 761-772.	1.7	14
39	Global Optimization Using Mixed Surrogate Models for Computation Intensive Designs. , 2010, , .		2
40	Metamodelling and search using space exploration and unimodal region elimination for design optimization. Engineering Optimization, 2010, 42, 517-533.	1.5	34
41	Trends, features, and tests of common and recently introduced global optimization methods. Engineering Optimization, 2010, 42, 691-718.	1.5	90
42	Modeling and simulation of anode-supported planar intermediate temperature solid oxide fuel cell for integrated gasification fuel cell application. , 2010, , .		0
43	Modeling and simulation of integrated coal gasification and solid oxide fuel cell system. , 2010, , .		1
44	Design and Analysis of a Hybrid Backup Power System for a High-Rise and High-Speed Elevator. , 2008, , .		2
45	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
46	Review of multi-regime hybrid vehicle powertrain architecture. International Journal of Electric and Hybrid Vehicles, 2008, 1, 248.	0.2	13
47	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
48	Design optimization of low impact transmission foundation for forging hammers. Engineering Computations, 2006, 23, 166-186.	0.7	6
49	Fuzzy Modeling in Response Surface Method for Complex Computer Model Based Design Optimization. , 2006, , .		2
50	Quality measurement of production process plan using tolerance chart. , 2005, , .		0
51	A New Principle of CNC Tool Path Planning for Three-Axis Sculptured Part Machiningâ€"A Steepest-Ascending Tool Path. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2004, 126, 515-523.	1.3	14
52	Automated surface subdivision and tool path generation for -axis CNC machining of sculptured parts. Computers in Industry, 2003, 50, 319-331.	5.7	71
53	ADAPTIVE RESPONSE SURFACE METHOD - A GLOBAL OPTIMIZATION SCHEME FOR APPROXIMATION-BASED DESIGN PROBLEMS. Engineering Optimization, 2001, 33, 707-733.	1.5	218
54	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

#	Article	IF	Citations
55	Impacts of Two-Speed Gearbox on Electric Vehicle's Fuel Economy and Performance. , 0, , .		31