

Panos Papalambros

List of Publications by Year in descending order

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345
papers

8,688
citations

53794

45
h-index

74163

75
g-index

353
all docs

353
docs citations

353
times ranked

3863
citing authors

#	ARTICLE	IF	CITATIONS
1	Target Cascading in Optimal System Design. Journal of Mechanical Design, Transactions of the ASME, 2003, 125, 474-480.	2.9	413
2	Exploration of Metamodeling Sampling Criteria for Constrained Global Optimization. Engineering Optimization, 2002, 34, 263-278.	2.6	348
3	An augmented Lagrangian relaxation for analytical target cascading using the alternating direction method of multipliers. Structural and Multidisciplinary Optimization, 2006, 31, 176-189.	3.5	251
4	Convergence Properties of Analytical Target Cascading. AIAA Journal, 2003, 41, 897-905.	2.6	232
5	Linking Marketing and Engineering Product Design Decisions via Analytical Target Cascading*. Journal of Product Innovation Management, 2005, 22, 42-62.	9.5	225
6	Analytical Target Cascading in Automotive Vehicle Design. Journal of Mechanical Design, Transactions of the ASME, 2003, 125, 481-489.	2.9	211
7	A NOTE ON WEIGHTED CRITERIA METHODS FOR COMPROMISE SOLUTIONS IN MULTI-OBJECTIVE OPTIMIZATION. Engineering Optimization, 1996, 27, 155-176.	2.6	209
8	On the coupling between the plant and controller optimization problems. , 2001, , .		154
9	Architectural layout design optimization. Engineering Optimization, 2002, 34, 461-484.	2.6	146
10	Multicriteria Optimization in Product Platform Design. Journal of Mechanical Design, Transactions of the ASME, 2001, 123, 199-204.	2.9	142
11	Balancing Marketing and Manufacturing Objectives in Product Line Design. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 1196-1204.	2.9	123
12	Combined optimisation of design and power management of the hydraulic hybrid propulsion system for the 6 ? 6 medium truck. International Journal of Heavy Vehicle Systems, 2004, 11, 372.	0.2	121
13	A Study of Fuel Efficiency and Emission Policy Impact on Optimal Vehicle Design Decisions. Journal of Mechanical Design, Transactions of the ASME, 2004, 126, 1062-1070.	2.9	109
14	Target cascading in vehicle redesign: a class VI truck study. International Journal of Vehicle Design, 2002, 29, 199.	0.3	108
15	Extension of the target cascading formulation to the design of product families. Structural and Multidisciplinary Optimization, 2002, 24, 293-301.	3.5	91
16	Enhancing marketing with engineering: Optimal product line design for heterogeneous markets. International Journal of Research in Marketing, 2011, 28, 1-12.	4.2	91
17	Probabilistic Analytical Target Cascading: A Moment Matching Formulation for Multilevel Optimization Under Uncertainty. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 991.	2.9	88
18	A Survey of Structural Optimization in Mechanical Product Development. Journal of Computing and Information Science in Engineering, 2005, 5, 214-226.	2.7	86

#	ARTICLE	IF	CITATIONS
19	Design Optimization of Hierarchically Decomposed Multilevel Systems Under Uncertainty. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 503-508.	2.9	84
20	A Sequential Linearization Approach for Solving Mixed-Discrete Nonlinear Design Optimization Problems. Journal of Mechanical Design, Transactions of the ASME, 1991, 113, 325-334.	2.9	77
21	Comparing Time Histories for Validation of Simulation Models: Error Measures and Metrics. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	1.6	76
22	Optimization Approach to Hybrid Electric Propulsion System Design— . Mechanics Based Design of Structures and Machines, 1999, 27, 393-421.	0.6	75
23	A Hypergraph Framework for Optimal Model-Based Decomposition of Design Problems. Computational Optimization and Applications, 1997, 8, 173-196.	1.6	73
24	A Bayesian Approach to Reliability-Based Optimization With Incomplete Information. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 909-918.	2.9	71
25	Combined Robust Design and Robust Control of an Electric DC Motor. IEEE/ASME Transactions on Mechatronics, 2011, 16, 574-582.	5.8	71
26	Platform Selection Under Performance Bounds in Optimal Design of Product Families. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 524.	2.9	69
27	Integrated Topology and Shape Optimization in Structural Design— . Mechanics Based Design of Structures and Machines, 1991, 19, 551-587.	0.6	66
28	Preference Inconsistency in Multidisciplinary Design Decision Making. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	66
29	Solution of mixed-discrete structural optimization problems with a new sequential linearization algorithm. Computers and Structures, 1990, 37, 451-461.	4.4	65
30	Combined Optimal Design and Control With Application to an Electric DC Motor. Journal of Mechanical Design, Transactions of the ASME, 2002, 124, 183-191.	2.9	64
31	Structural reanalysis for topological modifications - a unified approach. Structural and Multidisciplinary Optimization, 2001, 21, 333-344.	3.5	62
32	Analytic target cascading in simulation-based building design. Automation in Construction, 2005, 14, 551-568.	9.8	62
33	Coupling Between Component Sizing and Regulation Capability in Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1576-1585.	9.0	62
34	An Efficient Weighting Update Method to Achieve Acceptable Consistency Deviation in Analytical Target Cascading. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 206-214.	2.9	61
35	An Integrated Environment for Structural Configuration Design. Journal of Engineering Design, 1990, 1, 73-96.	2.3	58
36	Optimal Model-Based Decomposition of Powertrain System Design. Journal of Mechanical Design, Transactions of the ASME, 1995, 117, 499-505.	2.9	57

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37	Fast Parameter Optimization of Large-Scale Electromagnetic Objects Using DIRECT with Kriging Metamodeling. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 276-285.	4.6	54
38	Electric Vehicle Design Optimization: Integration of a High-Fidelity Interior-Permanent-Magnet Motor Model. IEEE Transactions on Vehicular Technology, 2015, 64, 3870-3877.	6.3	53
39	Hierarchical Overlapping Coordination for Large-Scale Optimization by Decomposition. AIAA Journal, 1999, 37, 890-896.	2.6	51
40	Interactive design optimization of architectural layouts. Engineering Optimization, 2002, 34, 485-501.	2.6	51
41	Autonomous Electric Vehicle Sharing System Design. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	51
42	The optimization paradigm in engineering design: promises and challenges. CAD Computer Aided Design, 2002, 34, 939-951.	2.7	50
43	Decomposition-Based Design Optimization of Hybrid Electric Powertrain Architectures: Simultaneous Configuration and Sizing Design. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	50
44	Target Cascading in Optimal System Design. , 2000, , .		50
45	A sensitivity-based commonality strategy for family products of mild variation, with application to automotive body structures. Structural and Multidisciplinary Optimization, 2004, 27, 89-96.	3.5	49
46	Design Science: Why, What and How. Design Science, 2015, 1, .	2.1	49
47	Optimal design of automotive hybrid powertrain systems. , 1999, , .		48
48	On the Suitability of Econometric Demand Models in Design for Market Systems. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	47
49	Exact and Accurate Solutions in the Approximate Reanalysis of Structures. AIAA Journal, 2001, 39, 2198-2205.	2.6	46
50	Optimal Partitioning and Coordination Decisions in Decomposition-Based Design Optimization. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	46
51	Quantitative platform selection in optimal design of product families, with application to automotive engine design. Journal of Engineering Design, 2006, 17, 429-446.	2.3	45
52	Incorporating user shape preference in engineering design optimisation. Journal of Engineering Design, 2011, 22, 627-650.	2.3	45
53	Topology Generation for Hybrid Electric Vehicle Architecture Design. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	45
54	Optimizing Truck Cab Layout for Driver Accommodation. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 1110-1117.	2.9	43

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55	Quantification of Perceived Environmental Friendliness for Vehicle Silhouette Design. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	43
56	Simulation-based optimal design of heavy trucks by model-based decomposition: an extensive analytical target cascading case study. International Journal of Heavy Vehicle Systems, 2004, 11, 403.	0.2	41
57	Computational Implementation and Tests of a Sequential Linearization Algorithm for Mixed-Discrete Nonlinear Design Optimization. Journal of Mechanical Design, Transactions of the ASME, 1991, 113, 335-345.	2.9	39
58	Platform Selection Under Performance Loss Constraints in Optimal Design of Product Families. , 2002, , 613.		39
59	Analytical Target Setting: An Enterprise Context in Optimal Product Design. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 4-13.	2.9	39
60	An Adaptive Sequential Linear Programming Algorithm for Optimal Design Problems With Probabilistic Constraints. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 140-149.	2.9	39
61	Discrete Optimal Design Formulations With Application to Gear Train Design. Journal of Mechanical Design, Transactions of the ASME, 1995, 117, 419-424.	2.9	38
62	A Production System for Use of Global Optimization Knowledge. Journal of Mechanisms, Transmissions, and Automation in Design, 1985, 107, 277-284.	0.2	37
63	Engine optimal operation lines for power-split hybrid electric vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2009, 223, 1149-1162.	1.9	37
64	When Crowdsourcing Fails: A Study of Expertise on Crowdsourced Design Evaluation. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	2.9	37
65	Optimal Hierarchical Decomposition Synthesis Using Integer Programming. Journal of Mechanical Design, Transactions of the ASME, 1997, 119, 440-447.	2.9	36
66	Hierarchical Decomposition Synthesis in Optimal Systems Design. Journal of Mechanical Design, Transactions of the ASME, 1997, 119, 448-457.	2.9	35
67	Weights, Norms, and Notation in Analytical Target Cascading. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 499-501.	2.9	35
68	Optimal design of commercial vehicle systems using analytical target cascading. Structural and Multidisciplinary Optimization, 2014, 50, 1103-1114.	3.5	35
69	Real-Time Self-Learning Optimization of Diesel Engine Calibration. Journal of Engineering for Gas Turbines and Power, 2009, 131, .	1.1	34
70	Estimating and Exploring the Product Form Design Space Using Deep Generative Models. , 2016, , .		33
71	Design Optimization of Hierarchically Decomposed Multilevel Systems Under Uncertainty. , 2004, , 613.		32
72	Control Proxy Functions for Sequential Design and Control Optimization. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	2.9	31

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73	Improving Design Preference Prediction Accuracy Using Feature Learning. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	31
74	Optimization and integration of ground vehicle systems. Vehicle System Dynamics, 2005, 43, 437-453.	3.7	30
75	Online Identification and Stochastic Control for Autonomous Internal Combustion Engines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	1.6	30
76	Metamodeling sampling criteria in a global optimization framework. , 2000, , .		29
77	Exact and Accurate Reanalysis of Structures for Geometrical Changes. Engineering With Computers, 2001, 17, 363-372.	6.1	29
78	Accurate displacement derivatives for structural optimization using approximate reanalysis. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 3945-3956.	6.6	29
79	Target Exploration for Disconnected Feasible Regions in Enterprise-Driven Multilevel Product Design. AIAA Journal, 2006, 44, 67-77.	2.6	29
80	Integrated Decision Making in Electric Vehicle and Charging Station Location Network Design. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	2.9	29
81	Optimal Design Decisions in Product Portfolio Valuation. , 2002, , .		29
82	The construction of preferences for crux and sentinel product attributes. Journal of Engineering Design, 2009, 20, 609-626.	2.3	28
83	Sequential co-design of an artifact and its controller via control proxy functions. Mechatronics, 2013, 23, 409-418.	3.3	28
84	A Design Preference Elicitation Query as an Optimization Process. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	2.9	28
85	A Network Reliability Approach to Optimal Decomposition of Design Problems. Journal of Mechanical Design, Transactions of the ASME, 1995, 117, 433-440.	2.9	27
86	Adaptive Experimental Design Applied to Ergonomics Testing Procedure. , 2002, , 529.		27
87	Design optimization of conformal antennas by integrating stochastic algorithms with the hybrid finite-element method. IEEE Transactions on Antennas and Propagation, 2002, 50, 676-684.	5.1	27
88	Global Optimization of Problems with Disconnected Feasible Regions via Surrogate Modeling. , 2002, , .		27
89	Improving an Ergonomics Testing Procedure via Approximation-based Adaptive Experimental Design. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 1006-1013.	2.9	27
90	Tangent, normal, and visibility cones on BÃ©zier surfaces. Computer Aided Geometric Design, 1995, 12, 305-320.	1.2	26

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91	Linking Optimal Design Decisions to the Theory of the Firm: The Case of Resource Allocation. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 358.	2.9	26
92	A Comprehensive Metric for Comparing Time Histories in Validation of Simulation Models With Emphasis on Vehicle Safety Applications. , 2008, , .		26
93	Public investment and electric vehicle design: a model-based market analysis framework with application to a USAâ€“China comparison study. Design Science, 2016, 2, .	2.1	26
94	Structural Configuration Examples of an Integrated Optimal Design Process. Journal of Mechanical Design, Transactions of the ASME, 1994, 116, 997-1004.	2.9	25
95	Aircraft Family Design Using Decomposition-Based Methods. , 2006, , .		25
96	EcoRacer: Game-Based Optimal Electric Vehicle Design and Driver Control Using Human Players. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	25
97	Design and Implementation of a Prototype â€“Intelligentâ€™ CAD System. Journal of Mechanisms, Transmissions, and Automation in Design, 1989, 111, 252-258.	0.2	24
98	Reliability Optimization With Mixed Continuous-Discrete Random Variables and Parameters. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 158-165.	2.9	24
99	Product and Process Tolerance Allocation in Multistation Compliant Assembly Using Analytical Target Cascading. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, 091701.	2.9	24
100	A Socio-Technical Perspective on Interdisciplinary Interactions During the Development of Complex Engineered Systems. Procedia Computer Science, 2013, 16, 1142-1151.	2.0	24
101	Design of Hybrid-Electric Vehicle Architectures Using Auto-Generation of Feasible Driving Modes. , 2013, , .		24
102	Application of a product platform design process to automotive powertrains. , 2000, , .		23
103	Integrated Plant, Observer, and Controller Optimization With Application to Combined Passive/Active Automotive Suspensions. , 2003, , 225.		23
104	Analytical Target Cascading in Aircraft Design. , 2006, , .		23
105	On Measures of Coupling Between the Artifact and Controller Optimal Design Problems. , 2009, , .		23
106	A Sequential Linear Programming Coordination Algorithm for Analytical Target Cascading. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	23
107	Validating Designs Through Sequential Simulation-Based Optimization. , 2010, , .		23
108	On Selecting Single-Level Formulations for Complex System Design Optimization. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 898-906.	2.9	22

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109	Optimal Component Sizing and Forward-Looking Dispatch of an Electrical Microgrid for Energy Storage Planning. , 2011, , .		22
110	Global Non-Iterative Design Optimization Using Monotonicity Analysis. Journal of Mechanical Design, 1979, 101, 645-649.	0.1	21
111	Design of an Optimal Grid for Finite Element Methods. Journal of Structural Mechanics, 1983, 11, 215-230.	0.6	21
112	Combined maximisation of interior comfort and frontal crashworthiness in preliminary vehicle design. International Journal of Vehicle Design, 2004, 35, 167.	0.3	21
113	Solving multiobjective optimization problems using quasi-separable MDO formulations and analytical target cascading. Structural and Multidisciplinary Optimization, 2014, 50, 849-859.	3.5	21
114	Balancing design freedom and brand recognition in the evolution of automotive brand styling. Design Science, 2016, 2, .	2.1	21
115	Perceptual Attributes in Product Design: Fuel Economy and Silhouette-Based Perceived Environmental Friendliness Tradeoffs in Automotive Vehicle Design. Journal of Mechanical Design, Transactions of the ASME, 2012, 134, .	2.9	20
116	Comparison of Combined Embodiment Design and Control Optimization Strategies Using Optimality Conditions. , 2001, , .		20
117	Title is missing!. Computational Optimization and Applications, 2001, 18, 273-293.	1.6	19
118	A Sensitivity-Based Commonality Strategy for Family Products of Mild Variation, with Application to Automotive Body Structures. , 2002, , .		19
119	Multiobjective Optimization for Integrated Tolerance Allocation and Fixture Layout Design in Multistation Assembly. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	2.2	19
120	Robustness and Real Options for Vehicle Design and Investment Decisions Under Gas Price and Regulatory Uncertainties. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	2.9	19
121	Design of an Advanced Heavy Tactical Truck: A Target Cascading Case Study. , 2001, , .		18
122	Convergence Properties of Analytical Target Cascading. , 2002, , .		18
123	Quantification and Use of System Coupling in Decomposed Design Optimization Problems. , 2005, , 95.		18
124	Monotonicity and Active Set Strategies in Probabilistic Design Optimization. Journal of Mechanical Design, Transactions of the ASME, 2006, 128, 893-900.	2.9	18
125	A cross-cultural study of users' craftsmanship perceptions in vehicle interior design. International Journal of Product Development, 2009, 7, 28.	0.2	18
126	Pareto set analysis: local measures of objective coupling in multiobjective design optimization. Structural and Multidisciplinary Optimization, 2011, 43, 617-630.	3.5	18

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127	Efficient multi-level design optimization using analytical target cascading and sequential quadratic programming. <i>Structural and Multidisciplinary Optimization</i> , 2011, 44, 351-362.	3.5	18
128	Designing broad-band patch antennas using the sequential quadratic programming method. <i>IEEE Transactions on Antennas and Propagation</i> , 1997, 45, 1689-1692.	5.1	17
129	Product semantics and wine portfolio optimisation. <i>International Journal of Product Development</i> , 2009, 7, 73.	0.2	17
130	Integration and Use of Diesel Engine, Driveline and Vehicle Dynamics Models for Heavy Duty Truck Simulation. , 1999, , .		16
131	Optimal Design of Hybrid Fuel Cell Vehicles. <i>Journal of Fuel Cell Science and Technology</i> , 2008, 5, .	0.8	16
132	Optimal Engine Calibration for Individual Driving Styles. , 2008, , .		16
133	A Learning Algorithm for Optimal Internal Combustion Engine Calibration in Real Time. , 2007, , 91.		15
134	Modelling perceptions of craftsmanship in vehicle interior design. <i>Journal of Engineering Design</i> , 2011, 22, 129-144.	2.3	15
135	Constraint Management of Reduced Representation Variables in Decomposition-Based Design Optimization. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011, 133, .	2.9	15
136	Homogeneous charge compression ignition technology implemented in a hybrid electric vehicle: System optimal design and benefit analysis for a power-split architecture. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2013, 227, 87-98.	1.9	15
137	A General Framework for Decomposition Analysis in Optimal Design. , 1993, , .		15
138	Analytical Target Cascading in Automotive Vehicle Design. , 2001, , .		15
139	An Efficient Weighting Update Method to Achieve Acceptable Consistency Deviation in Analytical Target Cascading. , 2004, , 159.		14
140	A Real-Time Computational Learning Model for Sequential Decision-Making Problems Under Uncertainty. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2009, 131, .	1.6	14
141	An Automated Procedure for Local Monotonicity Analysis. <i>Journal of Mechanisms, Transmissions, and Automation in Design</i> , 1984, 106, 82-89.	0.2	13
142	Model Predictive Control of a Microgrid With Plug-In Vehicles: Error Modeling and the Role of Prediction Horizon. , 2011, , .		13
143	Combined design and robust control of a vehicle passive/active suspension. <i>International Journal of Vehicle Design</i> , 2012, 59, 315.	0.3	13
144	Deep Design. , 2017, , .		13

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145	Notes on the Operational Utility of Monotonicity in Optimization. Journal of Mechanisms, Transmissions, and Automation in Design, 1983, 105, 174-180.	0.2	12
146	CONTROLLING THE SEARCH FOR A COMPROMISE SOLUTION IN MULTI-OBJECTIVE OPTIMIZATION. Engineering Optimization, 1995, 25, 65-81.	2.6	12
147	Infeasibility and Non-Optimality Tests for Solution Space Reduction in Discrete Optimal Design. Journal of Mechanical Design, Transactions of the ASME, 1995, 117, 425-432.	2.9	12
148	Propagation of Uncertainty in Optimal Design of Multilevel Systems: Piston-Ring/Cylinder-Liner Case Study. , 0, , .		12
149	On the Impact of Coupling Strength on Complex System Optimization for Single-Level Formulations. , 2005, , 265.		12
150	An SLP filter algorithm for probabilistic analytical target cascading. Structural and Multidisciplinary Optimization, 2010, 41, 935-945.	3.5	12
151	Reduced representations of vector-valued coupling variables in decomposition-based design optimization. Structural and Multidisciplinary Optimization, 2011, 44, 379-391.	3.5	12
152	Optimal Dual-Mode Hybrid Electric Vehicle Powertrain Architecture Design for a Variety of Loading Scenarios. , 2014, , .		12
153	Perspectives on design creativity and innovation research: 10 years later. International Journal of Design Creativity and Innovation, 2022, 10, 1-30.	1.2	12
154	Coordination specification in distributed optimal design of multilevel systems using the ? language. Structural and Multidisciplinary Optimization, 2005, 29, 198-212.	3.5	11
155	Programming Optimal Suggestions in the Design Concept Phase: Application to the Boothroyd Assembly Charts. Journal of Mechanisms, Transmissions, and Automation in Design, 1985, 107, 285-291.	0.2	10
156	An Investigation of Sustainability, Preference, and Profitability in Design Optimization. , 2010, , .		10
157	Identifying experts in the crowd for evaluation of engineering designs. Journal of Engineering Design, 2017, 28, 317-337.	2.3	10
158	Regional Monotonicity in Optimum Design. Journal of Mechanical Design, 1980, 102, 497-500.	0.1	9
159	Optimal Design of Mechanical Engineering Systems. Journal of Vibration and Acoustics, Transactions of the ASME, 1995, 117, 55-62.	1.6	9
160	Sequentially Decomposed Programming. AIAA Journal, 1997, 35, 1209-1216.	2.6	9
161	CORBA-Based Object-Oriented Framework for Distributed System Design. Mechanics Based Design of Structures and Machines, 1999, 27, 365-392.	0.6	9
162	Manufacturing Investment and Allocation in Product Line Design Decision-Making. , 2005, , 189.		9

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163	A Critical Review of Optimization Methods for Road Vehicles Design. , 2006, , .		9
164	Co-Design of a MEMS Actuator and Its Controller Using Frequency Constraints. , 2008, , .		9
165	Consistency Constraint Allocation in Augmented Lagrangian Coordination. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	9
166	Evidence for using Interactive Genetic Algorithms in shape preference assessment. International Journal of Product Development, 2011, 13, 168.	0.2	9
167	A market systems analysis of the U.S. Sport Utility Vehicle market considering frontal crash safety technology and policy. Accident Analysis and Prevention, 2013, 50, 943-954.	5.7	9
168	A Simulation Based Estimation of Crowd Ability and its Influence on Crowdsourced Evaluation of Design Concepts. , 2013, , .		9
169	Multiobjective optimization of modular design concepts for a collection of interacting systems. Structural and Multidisciplinary Optimization, 2018, 57, 83-94.	3.5	9
170	Optimal Design of a Hybrid Electric Powertrain System*. Mechanics Based Design of Structures and Machines, 1997, 25, 267-286.	0.6	8
171	Product Tolerance Allocation in Compliant Multistation Assembly Through Variation Propagation and Analytical Target Cascading. , 2004, , 813.		8
172	Combined design and robust control of a vehicle passive/active suspension. , 2007, , .		8
173	A Note on the Convergence of Analytical Target Cascading With Infinite Norms. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	8
174	The Human Dimension. Journal of Mechanical Design, Transactions of the ASME, 2010, 132, .	2.9	8
175	A multi-objective optimization framework for assessing military ground vehicle design for safety. Journal of Defense Modeling and Simulation, 2014, 11, 33-46.	1.7	8
176	A Pareto Approach to Aligning Public and Private Objectives in Vehicle Design. , 2008, , .		8
177	Multicriteria Optimization in Product Platform Design. , 1999, , .		8
178	Nested Optimization of an Elevator and Its Gain-Scheduled LQG Controller. , 2002, , .		8
179	Coupling in design and robust control optimization. , 2007, , .		8
180	Target Feasibility Achievement in Enterprise-Driven Hierarchical Multidisciplinary Design. , 2004, , .		7

#	ARTICLE	IF	CITATIONS
181	Design Under Uncertainty and Assessment of Performance Reliability of a Dual-Use Medium Truck with Hydraulic-Hybrid Powertrain and Fuel Cell Auxiliary Power Unit. , 2005, , .		7
182	Robust Truck Cabin Layout Optimization Using Advanced Driver Variance Models. , 2005, , 1103.		7
183	Impact of uncertainty quantification on design: an engine optimisation case study. International Journal of Reliability and Safety, 2006, 1, 225.	0.2	7
184	A method for reliability-based optimization with multiple non-normal stochastic parameters: a simplified airshed management study. Stochastic Environmental Research and Risk Assessment, 2010, 24, 101-116.	4.0	7
185	Generalized Coupling Management in Complex Engineering Systems Optimization. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	2.9	7
186	Influence of automobile seat form and comfort rating on willingness-to-pay. International Journal of Vehicle Design, 2017, 75, 75.	0.3	7
187	Implementation of Decomposition Analysis in Optimal Design. , 1993, , .		7
188	A Case for a Knowledge-Based Active Set Strategy. Journal of Mechanisms, Transmissions, and Automation in Design, 1984, 106, 77-81.	0.2	6
189	A note on automated detection of mobility of skeletal structures. Computers and Structures, 1992, 45, 197-207.	4.4	6
190	Global and Discrete Constraint Activity. Journal of Mechanical Design, Transactions of the ASME, 1994, 116, 745-748.	2.9	6
191	Detection of degenerate normal vectors on parametric surfaces: Tangent cone approach. Computer Aided Geometric Design, 1995, 12, 321-327.	1.2	6
192	A Deterministic Global Design Optimization Method for Nonconvex Generalized Polynomial Problems. Journal of Mechanical Design, Transactions of the ASME, 1996, 118, 75-81.	2.9	6
193	A Convex Cutting Plane Algorithm for Global Solution of Generalized Polynomial Optimal Design Models. Journal of Mechanical Design, Transactions of the ASME, 1996, 118, 82-88.	2.9	6
194	Analytical Target Cascading for the Design of an Advanced Technology Heavy Truck. , 2002, , 3.		6
195	Frequency selective surface design by integrating optimisation algorithms with fast full wave numerical methods. IET Microwaves Antennas and Propagation, 2002, 149, 175-180.	1.2	6
196	An Optimization Study of Manufacturing Variation Effects on Diesel Injector Design with Emphasis on Emissions. , 0, , .		6
197	An Adaptive Sequential Linear Programming Algorithm for Optimal Design Problems With Probabilistic Constraints. , 2005, , 1111.		6
198	Combined Robust Design and Robust Control of an Electric DC Motor. , 2006, , 989.		6

#	ARTICLE	IF	CITATIONS
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