Kazuhiro Izui

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205 avg, IF 23 45 g-index 205 ext. citations 23 described avg, IF 45 g-index 25 ext. citations 25 described avg, IF 45 g-index 25 described avg, IF 45 g-index

#	Paper	IF	Citations
183	A topology optimization method based on the level set method incorporating a fictitious interface energy. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010 , 199, 2876-2891	5.7	369
182	Topology optimization for thermal conductors considering design-dependent effects, including heat conduction and convection. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 2721-2732	4.9	122
181	A topology optimization method for a coupled thermalfluid problem using level set boundary expressions. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 81, 878-888	4.9	107
180	Matlab code for a level set-based topology optimization method using a reaction diffusion equation. <i>Structural and Multidisciplinary Optimization</i> , 2015 , 51, 1159-1172	3.6	75
179	Structural topology optimization of vibrating structures with specified eigenfrequencies and eigenmode shapes. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 67, 597-628	2.4	73
178	A Level Set-Based Topology Optimization Method for Maximizing Thermal Diffusivity in Problems Including Design-Dependent Effects. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011 , 133,	3	71
177	A Survey of Structural Optimization in Mechanical Product Development. <i>Journal of Computing and Information Science in Engineering</i> , 2005 , 5, 214-226	2.4	71
176	A topology optimization method based on the level set method for the design of negative permeability dielectric metamaterials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012 , 237-240, 192-211	5.7	69
175	A structural optimization method based on the level set method using a new geometry-based re-initialization scheme. <i>International Journal for Numerical Methods in Engineering</i> , 2010 , 83, 1580-1624	2.4	69
174	Robust Topology Optimization for Compliant Mechanisms Considering Uncertainty of Applied Loads. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2008 , 2, 96-107	0.6	69
173	Topology optimization using a reactiondiffusion equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 2407-2420	5.7	64
172	Topology optimization of an acoustic metamaterial with negative bulk modulus using local resonance. <i>Finite Elements in Analysis and Design</i> , 2013 , 72, 1-12	2.2	59
171	Topology optimization in thermal-fluid flow using the lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2016 , 307, 355-377	4.1	58
170	Topology optimization using the lattice Boltzmann method incorporating level set boundary expressions. <i>Journal of Computational Physics</i> , 2014 , 274, 158-181	4.1	56
169	Reliability-based structural optimization of frame structures for multiple failure criteria using topology optimization techniques. <i>Structural and Multidisciplinary Optimization</i> , 2006 , 32, 299-311	3.6	51
168	An acoustic metasurface design for wave motion conversion of longitudinal waves to transverse waves using topology optimization. <i>Applied Physics Letters</i> , 2015 , 107, 221909	3.4	41
167	. IEEE Transactions on Magnetics, 2011 , 47, 3024-3027	2	41

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166	Decision-making support system for human resource allocation in product development projects. <i>International Journal of Production Research</i> , 2006 , 44, 831-848	7.8	38	
165	A Multiple Cross-Sectional Shape Optimization Method for Automotive Body Frames. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2005 , 127, 49-57	3	36	
164	Multilevel Redundancy Allocation Optimization Using Hierarchical Genetic Algorithm. <i>IEEE Transactions on Reliability</i> , 2008 , 57, 650-661	4.6	33	
163	Multi-objective hierarchical genetic algorithms for multilevel redundancy allocation optimization. <i>Reliability Engineering and System Safety</i> , 2009 , 94, 891-904	6.3	29	
162	An Optimum Design Method for a Thermal-Fluid Device Incorporating Multiobjective Topology Optimization With an Adaptive Weighting Scheme. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2018 , 140,	3	26	
161	Data mining based on clustering and association rule analysis for knowledge discovery in multiobjective topology optimization. <i>Expert Systems With Applications</i> , 2019 , 119, 247-261	7.8	26	
160	Topology optimization for hyperbolic acoustic metamaterials using a high-frequency homogenization method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 335, 419-471	5.7	23	
159	Topology optimization of hyperbolic metamaterials for an optical hyperlens. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 55, 913-923	3.6	21	
158	Topology optimization of free-layer damping material on a thin panel for maximizing modal loss factors expressed by only real eigenvalues. <i>Journal of Sound and Vibration</i> , 2015 , 358, 84-96	3.9	21	
157	Multiobjective optimization using an aggregative gradient-based method. <i>Structural and Multidisciplinary Optimization</i> , 2015 , 51, 173-182	3.6	21	
156	A level set based topology optimization method using the discretized signed distance function as the design variables. <i>Structural and Multidisciplinary Optimization</i> , 2010 , 41, 685-698	3.6	21	
155	Comparative Study of Topology Optimization Techniques. AIAA Journal, 2008, 46, 1963-1975	2.1	21	
154	Structural optimization based on topology optimization techniques using frame elements considering cross-sectional properties. <i>Structural and Multidisciplinary Optimization</i> , 2007 , 34, 41-60	3.6	21	
153	Manufacturability evaluation for molded parts using fictitious physical models, and its application in topology optimization. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 92, 1391-	140 9	20	
152	Multiobjective layout optimization of robotic cellular manufacturing systems. <i>Computers and Industrial Engineering</i> , 2013 , 64, 537-544	6.4	20	
151	Optimal multilevel redundancy allocation in series and seriesparallel systems. <i>Computers and Industrial Engineering</i> , 2009 , 57, 169-180	6.4	20	
150	Optimal design of electromagnetic cloaks with multiple dielectric materials by topology optimization. <i>Applied Physics Letters</i> , 2017 , 110, 201104	3.4	19	
149	Topology optimization for locally resonant sonic materials. <i>Applied Physics Letters</i> , 2014 , 104, 191905	3.4	19	

148	Enhanced multiobjective particle swarm optimization in combination with adaptive weighted gradient-based searching. <i>Engineering Optimization</i> , 2008 , 40, 789-804	2	19
147	Smart Optimization of Machine Systems Using Hierarchical Genotype Representations. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2002 , 124, 375-384	3	19
146	Nature inspired algorithms to optimize robot workcell layouts. <i>Applied Soft Computing Journal</i> , 2016 , 49, 570-589	7.5	19
145	Multi-objective hybrid algorithms for layout optimization in multi-robot cellular manufacturing systems. <i>Knowledge-Based Systems</i> , 2017 , 120, 87-98	7.3	17
144	A Multi-Level Optimization Method Using PSO for the Optimal Design of an L-Shaped Folded Monopole Antenna Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 206-215	4.9	17
143	Rotor pole design of IPM motors for a sinusoidal air-gap flux density distribution. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 46, 445-455	3.6	17
142	A generalized macroscopic model for sound-absorbing poroelastic media using the homogenization method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 251-264	5.7	17
141	Optimum design of an acoustic metamaterial with negative bulk modulus in an acoustic-elastic coupled system using a level setBased topology optimization method. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 113, 1300-1339	2.4	16
140	Level Set-Based Topology Optimization for the Design of an Electromagnetic Cloak With Ferrite Material. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2081-2084	2	16
139	Orthotropic material orientation optimization method in composite laminates. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 815-828	3.6	16
138	A level set-based topology optimization method for optimal manifold designs with flow uniformity in plate-type microchannel reactors. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 55, 1311-1327	3.6	15
137	Optimum design of a multi-functional acoustic metasurface using topology optimization based on Zwicker loudness model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 331, 116-137	5.7	15
136	Two-scale topology optimization for composite plates with in-plane periodicity. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 113, 1164-1188	2.4	14
135	A Structural Optimization Method Incorporating Level Set Boundary Expressions Based on the Concept of the Phase Field Method. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2009 , 75, 550-558		14
134	Simultaneous optimization of layout and task schedule for robotic cellular manufacturing systems. <i>Computers and Industrial Engineering</i> , 2016 , 102, 396-407	6.4	14
133	A rapid analysis method for production line design. <i>International Journal of Production Research</i> , 2006 , 44, 1171-1192	7.8	13
132	Shape and topology optimization based on the convected level set method. <i>Structural and Multidisciplinary Optimization</i> , 2016 , 54, 659-672	3.6	13
131	Hierarchical Arrangement of Characteristics in Product Design Optimization. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2006 , 128, 701-709	3	12

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130	Swarm algorithms for single- and multi-objective optimization problems incorporating sensitivity analysis. <i>Engineering Optimization</i> , 2007 , 39, 981-998	2	12
129	Hierarchical Parallel Processes of Genetic Algorithms for Design Optimization of Large-Scale Products. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2004 , 126, 217-224	3	12
128	Full-scale 3D structural topology optimization using adaptive mesh refinement based on the level-set method. <i>Finite Elements in Analysis and Design</i> , 2021 , 194, 103561	2.2	12
127	Pareto frontier exploration in multiobjective topology optimization using adaptive weighting and point selection schemes. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 55, 409-422	3.6	11
126	Local-in-time adjoint-based topology optimization of unsteady fluid flows using the lattice Boltzmann method. <i>Mechanical Engineering Journal</i> , 2017 , 4, 17-00120-17-00120	0.5	11
125	INVERSE DESIGN OF DIELECTRIC MATERIALS BY TOPOLOGY OPTIMIZATION. <i>Progress in Electromagnetics Research</i> , 2012 , 127, 93-120	3.8	11
124	Level set-based topology optimisation of a compliant mechanism design using mathematical programming. <i>Mechanical Sciences</i> , 2011 , 2, 91-98	1.3	11
123	Isogeometric topology optimization of anisotropic metamaterials for controlling high-frequency electromagnetic wave. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 1218-124	7 ^{2.4}	11
122	Three-dimensional topology optimization of a fluid Structure system using body-fitted mesh adaption based on the level-set method. <i>Applied Mathematical Modelling</i> , 2022 , 101, 276-308	4.5	11
121	Topology optimization of a no-moving-part valve incorporating Pareto frontier exploration. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 56, 839-851	3.6	10
120	Multi-Objective Optimization of Magnetic Actuator Design Using Adaptive Weight Determination Scheme. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	10
119	A level set-based topology optimization method for simultaneous design of elastic structure and coupled acoustic cavity using a two-phase material model. <i>Journal of Sound and Vibration</i> , 2017 , 404, 15-30	3.9	10
118	Design of Compliant Thermal Actuators Using Structural Optimization Based on the Level Set Method. <i>Journal of Computing and Information Science in Engineering</i> , 2011 , 11,	2.4	10
117	Concurrent Design and Evaluation Based on Structural Optimization using Structural and Function-oriented Elements at the Conceptual Design Phase. <i>Concurrent Engineering Research and Applications</i> , 2005 , 13, 29-42	1.7	10
116	Gradient-based multiobjective optimization using a distance constraint technique and point replacement. <i>Engineering Optimization</i> , 2016 , 48, 1226-1250	2	9
115	Level Set-Based Topology Optimization for the Design of Light-Trapping Structures. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 729-732	2	9
114	Topology optimization for cross-section designs of electromagnetic waveguides targeting guiding characteristics. <i>Finite Elements in Analysis and Design</i> , 2009 , 45, 944-957	2.2	9
113	Robust topology optimization of optical cloaks under uncertainties in wave number and angle of incident wave. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 3926-3954	2.4	8

112	Multi-Material Optimization of Magnetic Devices Using an Allen-Cahn Equation. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3579-3582	2	8
111	Structural Optimization Using Function-Oriented Elements to Support Conceptual Designs. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2006 , 128, 689-700	3	8
110	Effect of temperature on the fiber/matrix interfacial strength of carbon fiber reinforced polyamide model composites. <i>Mechanical Engineering Journal</i> , 2016 , 3, 16-00158-16-00158	0.5	7
109	An innovative design method for compliant mechanisms combining structural optimisations and designer creativity. <i>Journal of Engineering Design</i> , 2009 , 20, 125-154	1.8	7
108	Optimization of Magnetization Directions in a 3-D Magnetic Structure. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1603-1606	2	7
107	Optimizing the decision-making process for large-scale design problems according to criteria interrelationships. <i>International Journal of Production Research</i> , 2003 , 41, 1987-2002	7.8	7
106	Decision Support System for Selecting Collaborative Product Development Partners. <i>Concurrent Engineering Research and Applications</i> , 2005 , 13, 5-11	1.7	7
105	Cutting Path Design to Minimize Workpiece Displacement at Cutting Point: Milling of Thin-Walled Parts. <i>International Journal of Automation Technology</i> , 2012 , 6, 638-647	0.8	7
104	Topology optimization for multi-material structures based on the level set method. <i>Transactions of the JSME (in Japanese)</i> , 2017 , 83, 17-00069-17-00069	0.2	6
103	Switchgear component commonality design based on trade-off analysis among inventory level, delivery lead-time and product performance. <i>International Journal of Production Research</i> , 2010 , 48, 282	7-284	06
102	Handling Undefined Vectors in Expensive Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2010 , 582-591	0.9	6
101	Multiobjective Topology Optimization for a Multi-layered Morphing Flap Considering Multiple Flight Conditions. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2020 , 63, 90-100	0.8	5
100	Level set-based topology optimization for the design of a peltier effect thermoelectric actuator. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 55, 1671-1683	3.6	5
99	Optimal shape design of flux barriers in IPM synchronous motors using the phase field method. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2014 , 33, 998-1016	0.7	5
98	Space-saving and broadband design of a small vertical U-shaped folded dipole antenna for dual-band WiMAX using a PSO algorithm. <i>IEICE Communications Express</i> , 2012 , 1, 89-94	0.4	5
97	A Topology Optimization Method for Geometrically Nonlinear Problems Incorporating Level Set Boundary Expressions and a Particle Method. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2013 , 7, 630-643	0.6	5
96	A heuristic approach for actuator layout designs in deformable mirror devices based on current value optimization. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 58, 1243-1254	3.6	5
95	A topology optimization method in rarefied gas flow problems using the Boltzmann equation. <i>Journal of Computational Physics</i> , 2019 , 395, 60-84	4.1	4

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94	Topology optimization for fluid flows using the MPS method incorporating the level set method. <i>Computers and Fluids</i> , 2019 , 188, 86-101	2.8	4
93	Driving force profile design in comb drive electrostatic actuators using a level set-based shape optimization method. <i>Structural and Multidisciplinary Optimization</i> , 2015 , 51, 369-383	3.6	4
92	Topological derivative for an acoustic-elastic coupled system based on two-phase material model. <i>Mechanical Engineering Letters</i> , 2016 , 2, 16-00246-16-00246	0.5	4
91	A Structural Optimization Method Incorporating Level Set Boundary Expressions Based on the Concept of the Phase Field Method. <i>Journal of Environment and Engineering</i> , 2011 , 6, 567-578		4
90	Dimensionality-reduction frameworks for computationally expensive problems 2010,		4
89	Product Optimization Incorporating Discrete Design Variables Based on Decomposition of Performance Characteristics. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2009 , 131,	3	4
88	Topology Optimization of Mechanical Structures Targeting Vibration Characteristics. <i>Journal of Environment and Engineering</i> , 2007 , 2, 480-492		4
87	Design Study of Lightweight Automatic Transmission Parts for Vehicles Using Level Set-Based Topology Optimization 2016 ,		4
86	Reliability-based topology optimization under shape uncertainty modeled in Eulerian description. <i>Structural and Multidisciplinary Optimization</i> , 2019 , 59, 75-91	3.6	4
85	Thermal Performance Optimization in Electric Vehicle Power Trains by Locally Orthotropic Surface Layer Design. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2018 , 140,	3	4
84	CO-JP-7 A Layout Design Optimization Method for Multi-robot Assembly Systems. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2012 , 2012, _CO-JP-7-1CO-JP-7-9	0	3
83	Multiobjective optimisation method for life-cycle design of mechanical products. <i>International Journal of Sustainable Engineering</i> , 2010 , 3, 81-94	3.1	3
82	Structural Optimization of Compliant Thermal Micro-Actuators Based on the Level Set Method 2008 ,		3
81	Machine system design optimization strategies based on expansion and contraction of design spaces 1998 ,		3
80	Optimum design and thermal modeling for 2D and 3D natural convection problems incorporating level set-based topology optimization with body-fitted mesh. <i>International Journal for Numerical Methods in Engineering</i> ,	2.4	3
79	Design Optimization of a Magnetic Actuator Incorporating the Concept of the Hybrid Analysis Method. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	2
78	A hybrid model-classifier framework for managing prediction uncertainty in expensive optimisation problems. <i>International Journal of Systems Science</i> , 2012 , 43, 1305-1321	2.3	2
77	Level Set-Based Topology Optimization for the Design of a Ferromagnetic Waveguide. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3072-3075	2	2

76	Topology Optimization Based on the Level Set Method Using Mathematical Programming. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2011 , 77, 4001-4014		2
75	Construction of an optimum system design method considering product lifecycle. <i>International Journal of Sustainable Engineering</i> , 2009 , 2, 171-183	3.1	2
74	Level Set-Based Topology Optimization Method for Thermal Problems(Mechanical Systems). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2009 , 75, 2868-2876		2
73	Reliability-Based Topology Optimization of Frame Structures for Multiple Criteria Using SLSV Method. <i>Journal of Computational Science and Technology</i> , 2010 , 4, 172-184		2
72	Design of Compliant Thermal Actuators Using Structural Optimization Based on the Level Set Method 2008 ,		2
71	An Optimal Design Method for Reducing Brake Squeal in Disc Brake Systems 2007 , 895		2
70	Topology Optimization for Thermal Problems Based on Assumed Continuous Approximation of Material Distributions. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2007 , 73, 2426-2433		2
69	Structural Topology Optimization of Compliant Mechanisms (In cases Where the Ratio of the Displacement at the Input Location to the Displacement at the Output Location is Included in an Objective Function). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of		2
68	Structural Topology Optimization Using Function-Oriented Elements Based on the Concept of First Order Analysis 2003 ,		2
67	Smart Optimization of Machine Systems Using Hierarchical Genotype Representations 1999 ,		2
66	Level-set based topology optimization considering milling directions via fictitious physical model. <i>Mechanical Engineering Journal</i> , 2020 , 7, 20-00226-20-00226	0.5	2
65	Cutting Process Design for Minimizing Workpiece Displacement at Cutting Point. <i>Journal of the Japan Society for Precision Engineering</i> , 2010 , 76, 1406-1410	0.1	2
64	Magnetising fixture design for optimal magnetisation orientation of ring-type magnet in surface-mounted permanent magnet motor. <i>IET Electric Power Applications</i> , 2018 , 12, 1344-1349	1.8	1
63	Topology optimization method for incompressible viscous flow applying an immersed boundary method. <i>Transactions of the JSME (in Japanese)</i> , 2018 , 84, 17-00551-17-00551	0.2	1
62	Level set-based topology optimization of steady state incompressible viscous flows under outflow rate inequality constraint. <i>Transactions of the JSME (in Japanese)</i> , 2014 , 80, DSM0213-DSM0213	0.2	1
61	Topology optimization with geometrical constraints based on fictitious physical models (The geometrical constraint for molding and milling). <i>Transactions of the JSME (in Japanese)</i> , 2017 , 83, 17-00	081 ² -17	'-doo81
60	Topology optimization for unification deposit thickness on electroplating process. <i>Transactions of the JSME (in Japanese)</i> , 2017 , 83, 17-00185-17-00185	0.2	1
59	A model-adaptive evolutionary algorithm for optimization. <i>Artificial Life and Robotics</i> , 2012 , 16, 546-550	0 o.6	1

58	Requisite design area on the ground plane of U-shaped folded dipole antennas. <i>IEICE Communications Express</i> , 2013 , 2, 365-371	0.4	1
57	A Level Set-Based Topology Optimization Using the Lattice-Boltzmann Method. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2013 , 79, 2152-216	3	1
56	Topology Optimization Method Using Level Set Boundary Expressions in Navier Stokes Flow 2012,		1
55	Conceptual Design Method for Reducing Brake Squeal in Disk Brake Systems Considering Unpredictable Usage Factors. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2012 , 134,	3	1
54	Structural Optimization of Mechanical Structures Targeting Vibration Characteristics Based on the Level Set Method. <i>Journal of Environment and Engineering</i> , 2010 , 5, 60-71		1
53	A Conceptual Design Method of Disc Brake Systems for Reducing Brake Squeal. <i>Journal of the Japan Society for Precision Engineering</i> , 2010 , 76, 973-980	0.1	1
52	Optimal Modular Redundancy Using Hierarchical Genetic Algorithms 2007,		1
51	A Method for Determining the Optimal Direction of the Principal Moment of Inertia in Frame Element Cross-Sections 2004 , 657		1
50	A Cross-sectional Shape Initial Design Method for Automotive Frame Structure Using Genetic Algorithms. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2004 , 70, 235-242		1
49	Topology Optimization Using Frame Elements (For Cases Where Eigen-frequencies are to be Maximized). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2005 , 71, 3018-3025		1
48	Human Resource Allocation Optimization for Multiple Development Projects. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2005 , 71, 677-684		1
47	Collaboration Support System Based on Visualization of Communication Processes. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2005 , 71, 23	70-23	77 ¹
46	Level set-based structural topology optimization of thermal deformation control structures using thermoelectric devicesThermoelectric Devices 2010 ,		1
45	Proposal of Multi-layered Compliant Mechanism as Internal Mechanism of Morphing Wing. Aerospace Technology Japan the Japan Society for Aeronautical and Space Sciences, 2019, 18, 151-159	0.1	1
44	A Classifier-Assisted Framework for Expensive Optimization Problems: A Knowledge-Mining Approach. <i>Lecture Notes in Computer Science</i> , 2011 , 161-175	0.9	1
43	A wavelength selective emitter design method using hyperbolic tangent level set-based shape optimization. <i>Optics Communications</i> , 2020 , 463, 125405	2	1
42	Level set-based topology optimization targeting micropumps employing an induced-charge electro-osmosis flow. <i>Transactions of the JSME (in Japanese)</i> , 2016 , 82, 15-00406-15-00406	0.2	1
41	Level Set-Based Topology Optimization with Manufacturing Constraint with Manufacturing Directions via Fictitious Physical Model 2019 ,		1

40	Level set-based topology optimization for two dimensional turbulent flow using an immersed boundary method. <i>Journal of Computational Physics</i> , 2021 , 446, 110630	4.1	1
39	Topology optimization for unifying deposit thickness in electroplating process. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 62, 1767-1785	3.6	О
38	Shape sensitivity for a two-phase heat conduction problem considering nanoscale effects. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2018 , 12, JAMDSM0003-JAMDSM0003	0.6	О
37	A formulation for optimal design problem of compliant displacement magnification mechanisms based on effective energy concept. <i>Mechanical Engineering Letters</i> , 2017 , 3, 17-00453-17-00453	0.5	O
36	Weight reduction design of multi-material vehicle components using level set-based topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2022 , 65, 1	3.6	O
35	Topology optimization for the elastic field using the lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , 2022 , 110, 123-134	2.7	O
34	Topology optimization method for unsteady state incompressible viscous flow based on a level set immersed boundary method. <i>Transactions of the JSME (in Japanese)</i> , 2019 , 85, 18-00423-18-00423	0.2	
33	Robust design of radar absorbent material with broadband characteristics. <i>IEICE Communications Express</i> , 2019 , 8, 99-103	0.4	
32	Optimum design of lattice structures based on continuum expression using micropolar continuum theory. <i>Transactions of the JSME (in Japanese)</i> , 2016 , 82, 16-00171-16-00171	0.2	
31	Imposing geometrical constraint in topology optimization for additive manufacturing. <i>Transactions of the JSME (in Japanese)</i> , 2019 , 85, 18-00508-18-00508	0.2	
30	Topology optimization of acoustic metamaterials with negative mass density using a level set-based method. <i>Mechanical Engineering Journal</i> , 2014 , 1, DSM0040-DSM0040	0.5	
29	A local search-based bi-objective optimization considering distance constraints. <i>Transactions of the JSME (in Japanese)</i> , 2014 , 80, DSM0389-DSM0389	0.2	
28	A topology optimization method for rarefied gas flows. <i>Transactions of the JSME (in Japanese)</i> , 2017 , 83, 17-00135-17-00135	0.2	
27	Identification of Material Parameters in Biot Model by the Homogenization Method. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2012 , 43-52	0.3	
26	Structural Optimization of Electrostatic Actuators Based on the Level Set Method. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2013 , 79, 3	3234-324	47
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