

Takayuki Yamada

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159
papers

1,989
citations

21
h-index

40
g-index

179
ext. papers

2,489
ext. citations

2.7
avg, IF

5.19
L-index

#	Paper	IF	Citations
159	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
158	A topology optimization method for a coupled thermal-fluid problem using level set boundary expressions. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 81, 878-888	4.9	107
157	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
156	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
155	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
154	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
153	Topology optimization using a reaction-diffusion equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 2407-2420	5.7	64
152	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
151	Topology optimization in thermal-fluid flow using the lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2016 , 307, 355-377	4.1	58
150	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
149	Level set based topology optimization for optical cloaks. <i>Applied Physics Letters</i> , 2013 , 102, 251106	3.4	46
148	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
147	A topology optimisation for three-dimensional acoustics with the level set method and the fast multipole boundary element method. <i>Mechanical Engineering Journal</i> , 2014 , 1, CM0039-CM0039	0.5	35
146	Level set-based topology optimization for 2D heat conduction problems using BEM with objective function defined on design-dependent boundary with heat transfer boundary condition. <i>Engineering Analysis With Boundary Elements</i> , 2015 , 61, 61-70	2.6	30
145	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
144	Power generation enhancement of solid oxide fuel cell by cathode-electrolyte interface modification in mesoscale assisted by level set-based optimization calculation. <i>Journal of Power Sources</i> , 2011 , 196, 3485-3495	8.9	26
143	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

142	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
141	An immersed boundary element method for level-set based topology optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 93, 960-988	2.4	23
140	Topology optimization of hyperbolic metamaterials for an optical hyperlens. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 55, 913-923	3.6	21
139	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
138	Multiobjective optimization using an aggregative gradient-based method. <i>Structural and Multidisciplinary Optimization</i> , 2015 , 51, 173-182	3.6	21
137	MPSBEM PARTITIONED COUPLING APPROACH FOR FLUIDSTRUCTURE INTERACTION WITH FREE SURFACE FLOW. <i>International Journal of Computational Methods</i> , 2014 , 11, 1350101	1.1	21
136	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, 1391-1409	2.3	20
135	Topology Optimization of a Magnetic Actuator Based on a Level Set and Phase-Field Approach. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 1318-1321	2	20
134	Optimal design of electromagnetic cloaks with multiple dielectric materials by topology optimization. <i>Applied Physics Letters</i> , 2017 , 110, 201104	3.4	19
133	Topology Optimization for a Dielectric Optical Cloak Based on an Exact Level Set Approach. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2073-2076	2	19
132	Topology optimization for locally resonant sonic materials. <i>Applied Physics Letters</i> , 2014 , 104, 191905	3.4	19
131	BMP-2 Enhances Lgr4 Gene Expression in Osteoblastic Cells. <i>Journal of Cellular Physiology</i> , 2016 , 231, 887-95	7	17
130	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
129	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
128	Orthotropic material orientation optimization method in composite laminates. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 815-828	3.6	16
127	FreeFEM++ code for reaction-diffusion equationBased topology optimization: for high-resolution boundary representation using adaptive mesh refinement. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 62, 439-455	3.6	15
126	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
125	Optimum design of a multi-functional acoustic metasurface using topology optimization based on ZwickerB loudness model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 331, 116-137	5.7	15

124	Migration linked to FUCCI-indicated cell cycle is controlled by PTH and mechanical stress. <i>Journal of Cellular Physiology</i> , 2014 , 229, 1353-8	7	14
123	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
122	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
121	FEM-Based Simulation for Workpiece Deformation in Thin-Wall Milling. <i>International Journal of Automation Technology</i> , 2015 , 9, 122-128	0.8	13
120	Shape and topology optimization based on the convected level set method. <i>Structural and Multidisciplinary Optimization</i> , 2016 , 54, 659-672	3.6	13
119	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
118	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
117	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
116	Level set-based topology optimisation of a compliant mechanism design using mathematical programming. <i>Mechanical Sciences</i> , 2011 , 2, 91-98	1.3	11
115	Isogeometric topology optimization of anisotropic metamaterials for controlling high-frequency electromagnetic wave. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 1218-1247	2.4	11
114	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
113	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
112	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
111	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
110	Gradient-based multiobjective optimization using a distance constraint technique and point replacement. <i>Engineering Optimization</i> , 2016 , 48, 1226-1250	2	9
109	Level Set-Based Topology Optimization for the Design of Light-Trapping Structures. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 729-732	2	9
108	Reaction-diffusion equation based topology optimization combined with the modified conjugate gradient method. <i>Finite Elements in Analysis and Design</i> , 2018 , 140, 84-95	2.2	9
107	Optimization of dispersive coefficients in the homogenization of the wave equation in periodic structures. <i>Numerische Mathematik</i> , 2018 , 140, 265-326	2.2	9

106	Development of implantable catheter flow sensor into inside of bronchi for laboratory animal. <i>Microsystem Technologies</i> , 2017 , 23, 175-185	1.7	8
105	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
104	Single-domain (110) PbTiO ₃ thin films: Thermodynamic theory and experiments. <i>Physical Review B</i> , 2016 , 93,	3.3	8
103	Detection of both heartbeat and respiration signals from airflow at mouth by using single catheter flow sensor 2015 ,		8
102	Robust topology optimization of thin plate structure under concentrated load with uncertain load position. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2016 , 10, JAMDSM0057-JAMDSM0057	0.6	8
101	Detection of kinetic heartbeat signals from airflow at mouth by catheter flow sensor with temperature compensation 2016 ,		8
100	Extraction of heartbeat signal from airflow at mouth by flow sensor 2015 ,		7
99	Adrenergic receptor activation suppresses bone morphogenetic protein (BMP)-induced alkaline phosphatase expression in osteoblast-like MC3T3E1 cells. <i>Journal of Cellular Biochemistry</i> , 2015 , 116, 1144-52	4.7	7
98	Level set-based topology optimization of thin plate structure for maximizing stiffness under out-of-plane deformation. <i>Transactions of the JSME (in Japanese)</i> , 2014 , 80, DSM0054-DSM0054	0.2	6
97	. <i>IEEE Sensors Journal</i> , 2017 , 17, 4369-4377	4	6
96	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
95	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
94	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
93	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
92	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
91	3D-Printed Micro-Tweezers with a Compliant Mechanism Designed Using Topology Optimization. <i>Micromachines</i> , 2021 , 12,	3.3	5
90	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
89	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

88	Geometric shape features extraction using a steady state partial differential equation system. <i>Journal of Computational Design and Engineering</i> , 2019 , 6, 647-656	4.6	4
87	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
86	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
85	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
84	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
83	Design Study of Lightweight Automatic Transmission Parts for Vehicles Using Level Set-Based Topology Optimization 2016 ,		4
82	Reliability-based topology optimization under shape uncertainty modeled in Eulerian description. <i>Structural and Multidisciplinary Optimization</i> , 2019 , 59, 75-91	3.6	4
81	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
80	Topology optimization considering the distortion in additive manufacturing. <i>Finite Elements in Analysis and Design</i> , 2021 , 193, 103558	2.2	4
79	Transparotid excision of rhabdomyosarcoma in masseter muscle: A case report. <i>Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology</i> , 2015 , 27, 45-48	0.4	3
78	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-7-1-_CO-JP-7-9	0	3
77	Robust Design Using Level-Set Based Topology Optimization for Coupled Thermal and Structural Problems 2010 ,		3
76	Topology Optimization for Coupled Thermal and Structural Problems Using the Level Set Method(Mechanical Systems). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2010 , 76, 36-43		3
75	Structural Optimization of Compliant Thermal Micro-Actuators Based on the Level Set Method 2008 ,		3
74	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
73	Thickness Constraints for Topology Optimization Using the Fictitious Physical Model 2019 , 483-490		3
72	Topology optimization of acoustic metasurfaces by using a two-scale homogenization method. <i>Applied Mathematical Modelling</i> , 2021 , 98, 465-497	4.5	3
71	FGF Suppresses Poldip2 Expression in Osteoblasts. <i>Journal of Cellular Biochemistry</i> , 2017 , 118, 1670-1677.	1.7	2

70	Implantable catheter flow sensor with legs in air passage for laboratory animal 2014 ,		2
69	Level Set-Based Topology Optimization for the Design of a Ferromagnetic Waveguide. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3072-3075	2	2
68	Level Set-Based Robust Topology Optimization for Coupled Thermal and Structural Problems Considering Uncertainty. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2011 , 77, 1-13		2
67	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
66	A Level Set-Based Topology Optimization Method Using the Boundary Element Method in Three Dimension. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2012 , 78, 228-239		2
65	Level Set-Based Topology Optimization Method for Thermal Problems(Mechanical Systems). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2009 , 75, 2868-2876		2
64	Design of Compliant Thermal Actuators Using Structural Optimization Based on the Level Set Method 2008 ,		2
63	A study on topology optimization using the level-set function and BEM 2012 ,		2
62	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
61	Level set-based topology optimization for graded acoustic metasurfaces using two-scale homogenization. <i>Finite Elements in Analysis and Design</i> , 2021 , 196, 103606	2.2	2
60	Multi-material topology optimization based on symmetric level set function using the material definition with perfect symmetric property. <i>Transactions of the JSME (in Japanese)</i> , 2021 , 87, 20-00412-20-00412	0.2	2
59	Minimizing creep deformation via topology optimization. <i>Finite Elements in Analysis and Design</i> , 2022 , 207, 103758	2.2	2
58	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
57	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
56	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, 17-00081-17-00081	0.2	1
55	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
54	Structural Optimization of a Brake Disc. <i>Journal of the Japan Society for Precision Engineering</i> , 2014 , 80, 763-770	0.1	1
53	Level Set-Based Robust Topology Optimization Using Stationary Stochastic Process Model. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2012 , 78, 928-942		1

52	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, 2152-2163		1
51	Topology Optimization Method Using Level Set Boundary Expressions in Navier Stokes Flow 2012 ,		1
50	Level Set-Based Robust Topology Design Considering Spatial Uncertainty 2012 ,		1
49	Reliability-Based Topology Optimization Incorporating Level Set Boundary Expressions(Mechanical Systems). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2009 , 75, 2633-2641		1
48	An Optimum Design Method for Capacitive Micromachined Ultrasonic Transducers : Level Set-Based Topology Optimization Method Incorporating Uniform Cross-Section Surface Constraints. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2010 , 76, 1403-1411		1
47	A New Structural Optimization Method Based on the Level Set Method for Vibration Problems and Heat Conduction Problems 2008 ,		1
46	Level set-based structural topology optimization of thermal deformation control structures using thermoelectric devices <i>Thermoelectric Devices</i> 2010 ,		1
45	Proposal of Multi-layered Compliant Mechanism as Internal Mechanism of Morphing Wing. <i>Aerospace Technology Japan the Japan Society for Aeronautical and Space Sciences</i> , 2019 , 18, 151-159	0.1	1
44	An acoustic metasurface design for wave motion conversion of longitudinal waves to transverse waves using topology optimization		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	Topology optimization of dynamic problems based on finite deformation theory. <i>International Journal for Numerical Methods in Engineering</i> , 2021 , 122, 4486-4506	2.4	1
41	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
40	Level Set-Based Topology Optimization with Manufacturing Constraint with Manufacturing Directions via Fictitious Physical Model 2019 ,		1
39	A design method of spatiotemporal optical pulse using level-set based time domain topology optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2019 , 117, 605-622	2.4	1
38	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
37	Topology optimization for unifying deposit thickness in electroplating process. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 62, 1767-1785	3.6	0
36	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	0
35	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	0

34	Topology optimization with a closed cavity exclusion constraint for additive manufacturing based on the fictitious physical model approach. <i>Additive Manufacturing</i> , 2022 , 52, 102630	6.1	o
33	Topology optimization for transient response problems involving thermoelastic materials. <i>Finite Elements in Analysis and Design</i> , 2022 , 201, 103695	2.2	o
32	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
31	Extended level set method: A multiphase representation with perfect symmetric property, and its application to multi-material topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 393, 114742	5.7	o
30	Topology optimization for acoustic structures considering viscous and thermal boundary layers using a sequential linearized Navier-Stokes model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 394, 114863	5.7	o
29	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	
28	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	
27	Robust topology optimization of compliant mechanism using multiobjective optimization method. <i>Transactions of the JSME (in Japanese)</i> , 2016 , 82, 16-00178-16-00178	0.2	
26	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	
25	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	
24	A local search-based bi-objective optimization considering distance constraints. <i>Transactions of the JSME (in Japanese)</i> , 2014 , 80, DSM0389-DSM0389	0.2	
23	A topology optimization method for rarefied gas flows. <i>Transactions of the JSME (in Japanese)</i> , 2017 , 83, 17-00135-17-00135	0.2	
22	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, 3234-3247		
21	Topology Optimization of Magnetostrictive Actuator Problems Based on the Ideas of Level Set Method and Phase Field Method. <i>Nippon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2013 , 79, 164-176		
20	Topology Optimization for the Design of Acoustic Metamaterials Using Level Set-Based Boundary Expressions. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2013 , 79, 2138-2151		
19	Effects of Parameters of Level Set-Based Robust Topology Optimization on Robust Optimum Configuration. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2013 , 79, 2233-2237		
18	Topology Optimization for Unifying Deposit Thickness in Electroplating Process 2018 , 1767-1782		
17	A fundamental study on topology optimization for turbulent flows. <i>The Proceedings of OPTIS</i> , 2018 , 2018.13, 109		o

- 16 Level set-based topology optimization for free surface flow using MPS method. *The Proceedings of OPTIS, 2018*, 2018.13, 106 ○
- 15 Simultaneous optimization of electric current and layout of actuators for shape control. *The Proceedings of OPTIS, 2018*, 2018.13, 307 ○
- 14 Multi-objective optimization for Train scheduling of lines with transmit based signaling system. *The Proceedings of OPTIS, 2018*, 2018.13, 123 ○
- 13 Clustering method for pareto-optimal solution set obtained by 3D multiobjective topology optimization. *The Proceedings of OPTIS, 2018*, 2018.13, 308 ○
- 12 J1240103 Level set based-topology optimization of heat control devices. *The Proceedings of Mechanical Engineering Congress Japan, 2015*, 2015, _J1240103--_J1240103- ○
- 11 A study to realize acoustic cloak using topology optimization based on level-set method.. *The Proceedings of the Dynamics & Design Conference, 2016*, 2016, 444 ○
- 10 Topology optimization for the design of acoustic metasurface incorporating acoustic-elastic coupling effect based on two-phase material model. *The Proceedings of Design & Systems Conference, 2016*, 2016.26, 2317 ○
- 9 Evaluation Method of Wave Dispersive Effect in Heterogeneous Media Using a Non-convex and Multimodal Optimization Method. *The Proceedings of Design & Systems Conference, 2016*, 2016.26, 1301 ○
- 8 Robust Topology Optimization for Enlarging the Bandwidth of an Electromagnetic Cloaking. *The Proceedings of Mechanical Engineering Congress Japan, 2017*, 2017, J1210204 ○
- 7 030 A Level Set-Based Topology Optimization Considering Manufacturing Requirements. *The Proceedings of the Materials and Mechanics Conference, 2010*, 2010, 569-571 ○
- 6 Study on Electric Intensity Dependency of Laser Action in Randomly Distributed Dielectric Rod. *IEEJ Transactions on Electronics, Information and Systems, 2012*, 132, 89-95 ○.1
- 5 J122025 A study of the optimum design of the locally resonant sonic materials using the level set based-topology optimization method. *The Proceedings of Mechanical Engineering Congress Japan, 2012*, 2012, _J122025-1-_J122025-2 ○
- 4 1214 Multiobjective optimization based on a local search technique considering distance constraints : adaptive adjustment of the number of points. *Proceedings of the Optimization Symposium, 2014*, 2014.11, _1214-1-_1214-5_ ○
- 3 Topology optimization with geometrical feature constraints based on the partial differential equation system for geometrical features (Overhang constraints considering geometrical singularities in additive manufacturing). *Transactions of the JSME (in Japanese), 2019*, 85, 19-00129-19-00129 ○.2
- 2 Topology optimization of transient response problems using step by step integration method (Formulation of analytical sensitivity with displacement as an unknown quantity and synthesis of vibration control structure). *Transactions of the JSME (in Japanese), 2021*, 87, 20-00382-20-00382 ○.2
- 1 Multi-material robust topology optimization considering uncertainty of material properties. *Transactions of the JSME (in Japanese), 2021*, 87, 21-00138-21-00138 ○.2