

Takayuki Yamada

List of Publications by Year in descending order

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179
papers

2,943
citations

218381

26
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197535

49
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179
all docs

179
docs citations

179
times ranked

1492
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.4	486
2	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.	2.5	150
3	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.	1.7	127
4	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, .	1.7	97
5	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.	1.5	87
6	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.	3.4	86
7	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.	1.7	82
8	Topology optimization in thermal-fluid flow using the lattice Boltzmann method. <i>Journal of Computational Physics</i> , 2016, 307, 355-377.	1.9	82
9	Topology optimization using a reaction–diffusion equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 2407-2420.	3.4	79
10	Topology optimization using the lattice Boltzmann method incorporating level set boundary expressions. <i>Journal of Computational Physics</i> , 2014, 274, 158-181.	1.9	75
11	Level set based topology optimization for optical cloaks. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	61
12	An acoustic metasurface design for wave motion conversion of longitudinal waves to transverse waves using topology optimization. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	60
13	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.	4.4	50
14	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.	4.0	40
15	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.	0.2	40
16	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, .	1.7	39
17	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.	2.2	39
18	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.	2.0	38

#	ARTICLE	IF	CITATIONS
19	Manufacturability evaluation for molded parts using fictitious physical models, and its application in topology optimization. International Journal of Advanced Manufacturing Technology, 2017, 92, 1391-1409.	1.5	36
20	Full-scale 3D structural topology optimization using adaptive mesh refinement based on the level-set method. Finite Elements in Analysis and Design, 2021, 194, 103561.	1.7	35
21	Topology optimization for hyperbolic acoustic metamaterials using a high-frequency homogenization method. Computer Methods in Applied Mechanics and Engineering, 2018, 335, 419-471.	3.4	34
22	MPSâ€FEM PARTITIONED COUPLING APPROACH FOR FLUIDâ€STRUCTURE INTERACTION WITH FREE SURFACE FLOW. International Journal of Computational Methods, 2014, 11, 1350101.	0.8	32
23	Topology optimization of free-layer damping material on a thin panel for maximizing modal loss factors expressed by only real eigenvalues. Journal of Sound and Vibration, 2015, 358, 84-96.	2.1	31
24	Topology Optimization for a Dielectric Optical Cloak Based on an Exact Level Set Approach. IEEE Transactions on Magnetics, 2013, 49, 2073-2076.	1.2	30
25	Optimal design of electromagnetic cloaks with multiple dielectric materials by topology optimization. Applied Physics Letters, 2017, 110, 201104.	1.5	28
26	FreeFEM++ code for reaction-diffusion equationâ€based topology optimization: for high-resolution boundary representation using adaptive mesh refinement. Structural and Multidisciplinary Optimization, 2020, 62, 439-455.	1.7	28
27	Topology optimization for locally resonant sonic materials. Applied Physics Letters, 2014, 104, .	1.5	26
28	Multiobjective optimization using an aggregative gradient-based method. Structural and Multidisciplinary Optimization, 2015, 51, 173-182.	1.7	26
29	BMPâ€Enhances Lgr4 Gene Expression in Osteoblastic Cells. Journal of Cellular Physiology, 2016, 231, 887-895.	2.0	26
30	Orthotropic material orientation optimization method in composite laminates. Structural and Multidisciplinary Optimization, 2018, 57, 815-828.	1.7	26
31	Topology Optimization of a Magnetic Actuator Based on a Level Set and Phase-Field Approach. IEEE Transactions on Magnetics, 2011, 47, 1318-1321.	1.2	25
32	An immersed boundary element method for levelâ€set based topology optimization. International Journal for Numerical Methods in Engineering, 2013, 93, 960-988.	1.5	25
33	Topology optimization of hyperbolic metamaterials for an optical hyperlens. Structural and Multidisciplinary Optimization, 2017, 55, 913-923.	1.7	25
34	A level set-based topology optimization method for optimal manifold designs with flow uniformity in plate-type microchannel reactors. Structural and Multidisciplinary Optimization, 2017, 55, 1311-1327.	1.7	25
35	Optimum design of an acoustic metamaterial with negative bulk modulus in an acousticâ€elastic coupled system using a level setâ€based topology optimization method. International Journal for Numerical Methods in Engineering, 2018, 113, 1300-1339.	1.5	24
36	Simultaneous optimization of layout and task schedule for robotic cellular manufacturing systems. Computers and Industrial Engineering, 2016, 102, 396-407.	3.4	23

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37	Optimum design of a multi-functional acoustic metasurface using topology optimization based on Zwicker's loudness model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 331, 116-137.	3.4	23
38	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.	1.2	20
39	Shape and topology optimization based on the convected level set method. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 659-672.	1.7	19
40	Topology optimization considering the distortion in additive manufacturing. <i>Finite Elements in Analysis and Design</i> , 2021, 193, 103558.	1.7	19
41	Pareto frontier exploration in multiobjective topology optimization using adaptive weighting and point selection schemes. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 409-422.	1.7	18
42	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> , 2022, 123, 1954-1990.	1.5	18
43	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.	0.2	17
44	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.	1.5	17
45	Topology optimization of acoustic metasurfaces by using a two-scale homogenization method. <i>Applied Mathematical Modelling</i> , 2021, 98, 465-497.	2.2	17
46	Level set-based topology optimization for graded acoustic metasurfaces using two-scale homogenization. <i>Finite Elements in Analysis and Design</i> , 2021, 196, 103606.	1.7	17
47	Level set-based topology optimization for the design of labyrinthine acoustic metamaterials. <i>Materials and Design</i> , 2022, 219, 110832.	3.3	17
48	Migration Linked to Fluorescence-Indicated Cell Cycle Is Controlled by PTH and Mechanical Stress. <i>Journal of Cellular Physiology</i> , 2014, 229, 1353-1358.	2.0	16
49	FEM-Based Simulation for Workpiece Deformation in Thin-Wall Milling. <i>International Journal of Automation Technology</i> , 2015, 9, 122-128.	0.5	16
50	Level set-based topology optimisation of a compliant mechanism design using mathematical programming. <i>Mechanical Sciences</i> , 2011, 2, 91-98.	0.5	15
51	Topology optimization for transient thermomechanical coupling problems. <i>Applied Mathematical Modelling</i> , 2022, 109, 536-554.	2.2	15
52	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, .	1.7	14
53	Topology optimization of a no-moving-part valve incorporating Pareto frontier exploration. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 839-851.	1.7	14
54	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.	0.2	14

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55	Optimization of dispersive coefficients in the homogenization of the wave equation in periodic structures. <i>Numerische Mathematik</i> , 2018, 140, 265-326.	0.9	13
56	3D-Printed Micro-Tweezers with a Compliant Mechanism Designed Using Topology Optimization. <i>Micromachines</i> , 2021, 12, 579.	1.4	13
57	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.	3.4	13
58	Single-domain (110) PbTiO_3 thin films: Thermodynamic theory and experiments. <i>Physical Review B</i> , 2016, 93, .		
59	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.	2.1	12
60	Level Set-Based Topology Optimization for the Design of Light-Trapping Structures. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 729-732.	1.2	11
61	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.	1.7	11
62	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.	0.4	11
63	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.	0.3	10
64	Gradient-based multiobjective optimization using a distance constraint technique and point replacement. <i>Engineering Optimization</i> , 2016, 48, 1226-1250.	1.5	10
65	Development of implantable catheter flow sensor into inside of bronchi for laboratory animal. <i>Microsystem Technologies</i> , 2017, 23, 175-185.	1.2	10
66	Heartbeat Signal Detection From Analysis of Airflow in Rat Airway Under Different Depths of Anaesthesia Conditions. <i>IEEE Sensors Journal</i> , 2017, 17, 4369-4377.	2.4	10
67	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.	1.5	10
68	Level set-based topology optimization for two dimensional turbulent flow using an immersed boundary method. <i>Journal of Computational Physics</i> , 2021, 446, 110630.	1.9	10
69	β_2 -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, 1144-1152.	1.2	9
70	Detection of kinetic heartbeat signals from airflow at mouth by catheter flow sensor with temperature compensation. , 2016, , .		9
71	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.	0.1	9
72	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, .	1.7	9

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73	A topology optimization method in rarefied gas flow problems using the Boltzmann equation. Journal of Computational Physics, 2019, 395, 60-84.	1.9	9
74	Reliability-based topology optimization under shape uncertainty modeled in Eulerian description. Structural and Multidisciplinary Optimization, 2019, 59, 75-91.	1.7	9
75	Topology optimization for acoustic structures considering viscous and thermal boundary layers using a sequential linearized Navier-Stokes model. Computer Methods in Applied Mechanics and Engineering, 2022, 394, 114863.	3.4	9
76	Extraction of heartbeat signal from airflow at mouth by flow sensor. , 2015, , .		8
77	Detection of both heartbeat and respiration signals from airflow at mouth by using single catheter flow sensor. , 2015, , .		8
78	A heuristic approach for actuator layout designs in deformable mirror devices based on current value optimization. Structural and Multidisciplinary Optimization, 2018, 58, 1243-1254.	1.7	8
79	Topology optimization for transient response problems involving thermoelastic materials. Finite Elements in Analysis and Design, 2022, 201, 103695.	1.7	8
80	Level set-based topology optimization of thin plate structure for maximizing stiffness under out-of-plane deformation. Transactions of the JSME (in Japanese), 2014, 80, DSM0054-DSM0054.	0.1	7
81	Topology optimization for fluid flows using the MPS method incorporating the level set method. Computers and Fluids, 2019, 188, 86-101.	1.3	7
82	A Topology Optimization Method for Geometrically Nonlinear Problems Incorporating Level Set Boundary Expressions and a Particle Method. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2013, 7, 630-643.	0.3	6
83	FGF Suppresses Poldip2 Expression in Osteoblasts. Journal of Cellular Biochemistry, 2017, 118, 1670-1677.	1.2	6
84	Level set-based topology optimization for the design of a peltier effect thermoelectric actuator. Structural and Multidisciplinary Optimization, 2017, 55, 1671-1683.	1.7	6
85	Geometric shape features extraction using a steady state partial differential equation system. Journal of Computational Design and Engineering, 2019, 6, 647-656.	1.5	6
86	Topology optimization with a closed cavity exclusion constraint for additive manufacturing based on the fictitious physical model approach. Additive Manufacturing, 2022, 52, 102630.	1.7	6
87	Optimal shape design of flux barriers in IPM synchronous motors using the phase field method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 998-1016.	0.5	5
88	Design Study of Lightweight Automatic Transmission Parts for Vehicles Using Level Set-Based Topology Optimization. , 2016, , .		5
89	Topological derivative for an acoustic-elastic coupled system based on two-phase material model. Mechanical Engineering Letters, 2016, 2, 16-00246-16-00246.	0.2	5
90	Topology optimization of dynamic problems based on finite deformation theory. International Journal for Numerical Methods in Engineering, 2021, 122, 4486-4506.	1.5	5

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91	A Structural Optimization Method Incorporating Level Set Boundary Expressions Based on the Concept of the Phase Field Method. Journal of Environment and Engineering, 2011, 6, 567-578.	0.2	4
92	Driving force profile design in comb drive electrostatic actuators using a level set-based shape optimization method. Structural and Multidisciplinary Optimization, 2015, 51, 369-383.	1.7	4
93	Thickness Constraints for Topology Optimization Using the Fictitious Physical Model. , 2019, , 483-490.		4
94	Topology optimization for the elastic field using the lattice Boltzmann method. Computers and Mathematics With Applications, 2022, 110, 123-134.	1.4	4
95	Unidirectional invisibility in a PT-symmetric structure designed by topology optimization. Optics Letters, 2022, 47, 3315.	1.7	4
96	Structural Optimization of Compliant Thermal Micro-Actuators Based on the Level Set Method. , 2008, , .		3
97	An Optimum Design Method for Capacitive Micromachined Ultrasonic Transducers : Level Set-Based Topology Optimization Method Incorporating Uniform Cross-Section Surface Constraints. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2010, 76, 1403-1411.	0.2	3
98	Topology Optimization for Coupled Thermal and Structural Problems Using the Level Set Method(Mechanical Systems). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2010, 76, 36-43.	0.2	3
99	Robust Design Using Level-Set Based Topology Optimization for Coupled Thermal and Structural Problems. , 2010, , .		3
100	Topology Optimization Based on the Level Set Method Using Mathematical Programming. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2011, 77, 4001-4014.	0.2	3
101	A Level Set-Based Topology Optimization Method Using the Boundary Element Method in Three Dimension. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2012, 78, 228-239.	0.2	3
102	CO-JP-7 A Layout Design Optimization Method for Multi-robot Assembly Systems. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _CO-JP-7-1_ CO-JP-7-9.	0.0	3
103	A Level Set-Based Topology Optimization Using the Lattice-Boltzmann Method. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2013, 79, 2152-2163.	0.2	3
104	Transparotid excision of rhabdomyosarcoma in masseter muscle: A case report. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology, 2015, 27, 45-48.	0.2	3
105	A design method of spatiotemporal optical pulse using level-set based time domain topology optimization. International Journal for Numerical Methods in Engineering, 2019, 117, 605-622.	1.5	3
106	Topology optimization for unifying deposit thickness in electroplating process. Structural and Multidisciplinary Optimization, 2020, 62, 1767-1785.	1.7	3
107	Multi-material topology optimization based on symmetric level set function using the material definition with perfect symmetric property. Transactions of the JSME (in Japanese), 2021, 87, 20-00412-20-00412.	0.1	3
108	A study on topology optimization using the level-set function and BEM. , 2012, , .		3

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109	Level-set based topology optimization considering milling directions via fictitious physical model. Mechanical Engineering Journal, 2020, 7, 20-00226-20-00226.	0.2	3
110	Design of Compliant Thermal Actuators Using Structural Optimization Based on the Level Set Method. , 2008, , .		2
111	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.	0.2	2
112	Level Set-Based Robust Topology Optimization for Coupled Thermal and Structural Problems Considering Uncertainty. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2011, 77, 1-13.	0.2	2
113	Level Set-Based Topology Optimization for the Design of a Ferromagnetic Waveguide. IEEE Transactions on Magnetics, 2012, 48, 3072-3075.	1.2	2
114	Implantable catheter flow sensor with legs in air passage for laboratory animal. , 2014, , .		2
115	Topology optimization with geometrical constraints based on fictitious physical models (The Tj ETQq1 1 0.784314 rgBT /Overlock 10 TT 17-00081-17-00081.	0.1	2
116	Level Set-Based Topology Optimization with Manufacturing Constraint with Manufacturing Directions via Fictitious Physical Model. , 2019, , .		2
117	A wavelength selective emitter design method using hyperbolic tangent level set-based shape optimization. Optics Communications, 2020, 463, 125405.	1.0	2
118	A new design approach for thermal actuators based on topology optimization with stress constraints. International Journal for Numerical Methods in Engineering, 0, , .	1.5	2
119	Minimizing creep deformation via topology optimization. Finite Elements in Analysis and Design, 2022, 207, 103758.	1.7	2
120	A New Structural Optimization Method Based on the Level Set Method for Vibration Problems and Heat Conduction Problems. , 2008, , .		1
121	Reliability-Based Topology Optimization Incorporating Level Set Boundary Expressions(Mechanical) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TT Engineers, Part C, 2009, 75, 2633-2641.	0.2	1
122	Topology Optimization Method Using Level Set Boundary Expressions in Navier Stokes Flow. , 2012, , .		1
123	Level Set-Based Robust Topology Design Considering Spatial Uncertainty. , 2012, , .		1
124	Level Set-Based Robust Topology Optimization Using Stationary Stochastic Process Model. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2012, 78, 928-942.	0.2	1
125	Structural Optimization of a Brake Disc. Journal of the Japan Society for Precision Engineering, 2014, 80, 763-770.	0.0	1
126	Level set-based topology optimization of steady state incompressible viscous flows under outflow rate inequality constraint. Transactions of the JSME (in Japanese), 2014, 80, DSM0213-DSM0213.	0.1	1

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127	Level set-based topology optimization targeting micropumps employing an induced-charge electro-osmosis flow. Transactions of the JSME (in Japanese), 2016, 82, 15-00406-15-00406.	0.1	1
128	Robust topology optimization of compliant mechanism using multiobjective optimization method. Transactions of the JSME (in Japanese), 2016, 82, 16-00178-16-00178.	0.1	1
129	A formulation for optimal design problem of compliant displacement magnification mechanisms based on effective energy concept. Mechanical Engineering Letters, 2017, 3, 17-00453-17-00453.	0.2	1
130	Topology optimization for unification deposit thickness on electroplating process. Transactions of the JSME (in Japanese), 2017, 83, 17-00185-17-00185.	0.1	1
131	Shape sensitivity for a two-phase heat conduction problem considering nanoscale effects. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0003-JAMDSM0003.	0.3	1
132	Topology optimization method for incompressible viscous flow applying an immersed boundary method. Transactions of the JSME (in Japanese), 2018, 84, 17-00551-17-00551.	0.1	1
133	An acoustic metasurface design for wave motion conversion of longitudinal waves to transverse waves using topology optimization. , 0, .		1
134	Topological sensitivity of the objective function defined on morphing boundaries of two-dimensional heat conduction problems. WIT Transactions on Modelling and Simulation, 2014, , .	0.0	1
135	Level set-based structural topology optimization of thermal deformation control structures using thermoelectric devicesThermoelectric Devices. , 2010, , .		1
136	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
137	Level Set-Based Topology Optimization Method for Thermal Problems Considering Design-Dependent Boundary Effects. , 2009, , .		0
138	A Structural Optimization Method for Universal Design of Compliant Mechanism Scissors. , 2009, , .		0
139	Topology optimization of magnetic actuator based on a level-set and a phase-field approach. , 2010, , .		0
140	A Shape and Topology Optimization Method Incorporating Level Set Boundary Expressions for Vibration Problems. , 2010, , .		0
141	Level Set-Based Topology Optimization for Mechanical Structures with Large Deformation Using a Particle Method. , 2010, , .		0
142	A Level Set Based Topology Optimization Method Targeting Dynamic Characteristics of Rotational Symmetry Structures. , 2010, , .		0
143	Design of Mechanical Structures Considering Harmonic Loads Using Level Set-Based Topology Optimization. , 2012, , .		0
144	Level set-based structural topology optimization of a metallic waveguide loaded with ferrite. , 2012, , .		0

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145	Structural Optimization of Electrostatic Actuators Based on the Level Set Method. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2013, 79, 3234-3247.	0.2	0
146	Topology Optimization of Magnetostrictive Actuator Problems Based on the Ideas of Level Set Method and Phase Field Method. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2013, 79, 164-176.	0.2	0
147	Topology Optimization for the Design of Acoustic Metamaterials Using Level Set-Based Boundary Expressions. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2013, 79, 2138-2151.	0.2	0
148	Effects of Parameters of Level Set-Based Robust Topology Optimization on Robust Optimum Configuration. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2013, 79, 2233-2237.	0.2	0
149	Topology optimization of an electromagnetic cloak using a ferrite material. , 2014, , .		0
150	Topology optimization of acoustic metamaterials with negative mass density using a level set-based method. Mechanical Engineering Journal, 2014, 1, DSM0040-DSM0040.	0.2	0
151	A local search-based bi-objective optimization considering distance constraints. Transactions of the JSME (in Japanese), 2014, 80, DSM0389-DSM0389.	0.1	0
152	Optimum design of lattice structures based on continuum expression using micropolar continuum theory. Transactions of the JSME (in Japanese), 2016, 82, 16-00171-16-00171.	0.1	0
153	A topology optimization method for rarefied gas flows. Transactions of the JSME (in Japanese), 2017, 83, 17-00135-17-00135.	0.1	0
154	Imposing geometrical constraint in topology optimization for additive manufacturing. Transactions of the JSME (in Japanese), 2019, 85, 18-00508-18-00508.	0.1	0
155	Topology optimization method for unsteady state incompressible viscous flow based on a level set immersed boundary method. Transactions of the JSME (in Japanese), 2019, 85, 18-00423-18-00423.	0.1	0
156	Topology optimization with geometrical feature constraints based on the partial differential equation system for geometrical features (Overhang constraints considering geometrical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td 19-00129-19-00129.	0.1	0
157	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) Tj ETQq1 1 0.784314 rgBTd/Overlock		
158	Multi-material robust topology optimization considering uncertainty of material properties. Transactions of the JSME (in Japanese), 2021, 87, 21-00138-21-00138.	0.1	0
159	Development of a novel high performance continuous cake-less filtration system. , 2008, , .		0
160	030 A Level Set-Based Topology Optimization Considering Manufacturing Requirements. The Proceedings of the Materials and Mechanics Conference, 2010, 2010, 569-571.	0.0	0
161	A shape sensitivity analysis approach based on the boundary element method. , 2011, , .		0
162	Study on Electric Intensity Dependency of Laser Action in Randomly Distributed Dielectric Rod. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 89-95.	0.1	0

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163	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.	0.0	0
164	CO-JP-8 Level Set-Based Topology Optimization of an Internal Flow Problem in an Incompressible Viscous Fluid. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _CO-JP-8-1-_CO-JP-8-6.	0.0	0
165	CO-JP-3 Level set-based topology optimization for the design of negative permeability dielectric metamaterials. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _CO-JP-3-1-_CO-JP-3-1.	0.0	0
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