

Takayuki Yamada

List of Publications by Year in descending order

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179
papers

2,943
citations

218381

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179
all docs

179
docs citations

179
times ranked

1492
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional topology optimization of a fluid-structure system using body-fitted mesh adaption based on the level-set method. Applied Mathematical Modelling, 2022, 101, 276-308.	2.2	39
2	Topology optimization for transient response problems involving thermoelastic materials. Finite Elements in Analysis and Design, 2022, 201, 103695.	1.7	8
3	Optimum design and thermal modeling for 2D and 3D natural convection problems incorporating level set-based topology optimization with body-fitted mesh. International Journal for Numerical Methods in Engineering, 2022, 123, 1954-1990.	1.5	18
4	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
5	Topology optimization for the elastic field using the lattice Boltzmann method. Computers and Mathematics With Applications, 2022, 110, 123-134.	1.4	4
6	Extended level set method: A multiphase representation with perfect symmetric property, and its application to multi-material topology optimization. Computer Methods in Applied Mechanics and Engineering, 2022, 393, 114742.	3.4	13
7	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
8	Topology optimization for transient thermomechanical coupling problems. Applied Mathematical Modelling, 2022, 109, 536-554.	2.2	15
9	Minimizing creep deformation via topology optimization. Finite Elements in Analysis and Design, 2022, 207, 103758.	1.7	2
10	Unidirectional invisibility in a PT-symmetric structure designed by topology optimization. Optics Letters, 2022, 47, 3315.	1.7	4
11	Level set-based topology optimization for the design of labyrinthine acoustic metamaterials. Materials and Design, 2022, 219, 110832.	3.3	17
12	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)	0.0	0
13	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
14	Topology optimization of dynamic problems based on finite deformation theory. International Journal for Numerical Methods in Engineering, 2021, 122, 4486-4506.	1.5	5
15	3D-Printed Micro-Tweezers with a Compliant Mechanism Designed Using Topology Optimization. Micromachines, 2021, 12, 579.	1.4	13
16	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
17	Topology optimization considering the distortion in additive manufacturing. Finite Elements in Analysis and Design, 2021, 193, 103558.	1.7	19
18	Topology optimization of acoustic metasurfaces by using a two-scale homogenization method. Applied Mathematical Modelling, 2021, 98, 465-497.	2.2	17

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19	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
20	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
21	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.	0.1	3
22	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
23	A wavelength selective emitter design method using hyperbolic tangent level set-based shape optimization. <i>Optics Communications</i> , 2020, 463, 125405.	1.0	2
24	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
25	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
26	Topology optimization for unifying deposit thickness in electroplating process. <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 1767-1785.	1.7	3
27	FreeFEM++ code for reaction-diffusion equation-based topology optimization: for high-resolution boundary representation using adaptive mesh refinement. <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 439-455.	1.7	28
28	Level-set based topology optimization considering milling directions via fictitious physical model. <i>Mechanical Engineering Journal</i> , 2020, 7, 20-00226-20-00226.	0.2	3
29	Imposing geometrical constraint in topology optimization for additive manufacturing. <i>Transactions of the JSME (in Japanese)</i> , 2019, 85, 18-00508-18-00508.	0.1	0
30	A topology optimization method in rarefied gas flow problems using the Boltzmann equation. <i>Journal of Computational Physics</i> , 2019, 395, 60-84.	1.9	9
31	Geometric shape features extraction using a steady state partial differential equation system. <i>Journal of Computational Design and Engineering</i> , 2019, 6, 647-656.	1.5	6
32	Topology optimization for fluid flows using the MPS method incorporating the level set method. <i>Computers and Fluids</i> , 2019, 188, 86-101.	1.3	7
33	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.	0.1	0
34	Topology optimization with geometrical feature constraints based on the partial differential equation system for geometrical features (Overhang constraints considering geometrical) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td</i> <i>Transactions of the JSME (in Japanese)</i> , 2019, 85, 19-00129-19-00129.	0.1	0
35	Thickness Constraints for Topology Optimization Using the Fictitious Physical Model. , 2019, , 483-490.		4
36	Reliability-based topology optimization under shape uncertainty modeled in Eulerian description. <i>Structural and Multidisciplinary Optimization</i> , 2019, 59, 75-91.	1.7	9

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37	Level Set-Based Topology Optimization with Manufacturing Constraint with Manufacturing Directions via Fictitious Physical Model. , 2019, , .		2
38	Data mining based on clustering and association rule analysis for knowledge discovery in multiobjective topology optimization. Expert Systems With Applications, 2019, 119, 247-261.	4.4	50
39	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
40	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
41	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
42	Optimum design of an acoustic metamaterial with negative bulk modulus in an acoustic-elastic coupled system using a level set-based topology optimization method. International Journal for Numerical Methods in Engineering, 2018, 113, 1300-1339.	1.5	24
43	An Optimum Design Method for a Thermal-Fluid Device Incorporating Multiobjective Topology Optimization With an Adaptive Weighting Scheme. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	1.7	39
44	Reaction-diffusion equation based topology optimization combined with the modified conjugate gradient method. Finite Elements in Analysis and Design, 2018, 140, 84-95.	1.7	11
45	Optimum design of a multi-functional acoustic metasurface using topology optimization based on Zwicker's loudness model. Computer Methods in Applied Mechanics and Engineering, 2018, 331, 116-137.	3.4	23
46	Orthotropic material orientation optimization method in composite laminates. Structural and Multidisciplinary Optimization, 2018, 57, 815-828.	1.7	26
47	Thermal Performance Optimization in Electric Vehicle Power Trains by Locally Orthotropic Surface Layer Design. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	1.7	9
48	Optimization of dispersive coefficients in the homogenization of the wave equation in periodic structures. Numerische Mathematik, 2018, 140, 265-326.	0.9	13
49	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
50	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
51	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
52	Topology Optimization for Unifying Deposit Thickness in Electroplating Process. , 2018, , 1767-1782.		0
53	A fundamental study on topology optimization for turbulent flows. The Proceedings of OPTIS, 2018, 2018.13, 109.	0.0	0
54	Level set-based topology optimization for free surface flow using MPS method. The Proceedings of OPTIS, 2018, 2018.13, 106.	0.0	0

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73	Topology optimization for unification deposit thickness on electroplating process. Transactions of the JSME (in Japanese), 2017, 83, 17-00185-17-00185.	0.1	1
74	Local-in-time adjoint-based topology optimization of unsteady fluid flows using the lattice Boltzmann method. Mechanical Engineering Journal, 2017, 4, 17-00120-17-00120.	0.2	14
75	Robust Topology Optimization for Enlarging the Bandwidth of an Electromagnetic Cloaking. The Proceedings of Mechanical Engineering Congress Japan, 2017, 2017, J1210204.	0.0	0
76	Design Study of Lightweight Automatic Transmission Parts for Vehicles Using Level Set-Based Topology Optimization. , 2016, , .		5
77	BMP α Enhances Lgr4 Gene Expression in Osteoblastic Cells. Journal of Cellular Physiology, 2016, 231, 887-895.	2.0	26
78	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
79	Robust topology optimization of thin plate structure under concentrated load with uncertain load position. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2016, 10, JAMDSM0057-JAMDSM0057.	0.3	10
80	Simultaneous optimization of layout and task schedule for robotic cellular manufacturing systems. Computers and Industrial Engineering, 2016, 102, 396-407.	3.4	23
81	Detection of kinetic heartbeat signals from airflow at mouth by catheter flow sensor with temperature compensation. , 2016, , .		9
82	Shape and topology optimization based on the convected level set method. Structural and Multidisciplinary Optimization, 2016, 54, 659-672.	1.7	19
83	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
84	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
85	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
86	Single-domain (110) PbTiO_3 ferroelectric films: Thermodynamic theory and experiments. Physical Review B, 2016, 93, .		
87	Topology optimization in thermal-fluid flow using the lattice Boltzmann method. Journal of Computational Physics, 2016, 307, 355-377.	1.9	82
88	Gradient-based multiobjective optimization using a distance constraint technique and point replacement. Engineering Optimization, 2016, 48, 1226-1250.	1.5	10
89	A study to realize acoustic cloak using topology optimization based on level-set method.. The Proceedings of the Dynamics & Design Conference, 2016, 2016, 444.	0.0	0
90	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.	0.0	0

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91	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.	0.0	0
92	An acoustic metasurface design for wave motion conversion of longitudinal waves to transverse waves using topology optimization. Applied Physics Letters, 2015, 107, .	1.5	60
93	Extraction of heartbeat signal from airflow at mouth by flow sensor. , 2015, , .		8
94	Detection of both heartbeat and respiration signals from airflow at mouth by using single catheter flow sensor. , 2015, , .		8
95	β ₂ -Adrenergic Receptor Activation Suppresses Bone Morphogenetic Protein (BMP)-Induced Alkaline Phosphatase Expression in Osteoblast-Like MC3T3E1 Cells. Journal of Cellular Biochemistry, 2015, 116, 1144-1152.	1.2	9
96	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. Engineering Analysis With Boundary Elements, 2015, 61, 61-70.	2.0	38
97	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
98	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
99	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
100	Matlab code for a level set-based topology optimization method using a reaction diffusion equation. Structural and Multidisciplinary Optimization, 2015, 51, 1159-1172.	1.7	127
101	A topology optimization method for a coupled thermal–fluid problem using level set boundary expressions. International Journal of Heat and Mass Transfer, 2015, 81, 878-888.	2.5	150
102	Multiobjective optimization using an aggregative gradient-based method. Structural and Multidisciplinary Optimization, 2015, 51, 173-182.	1.7	26
103	FEM-Based Simulation for Workpiece Deformation in Thin-Wall Milling. International Journal of Automation Technology, 2015, 9, 122-128.	0.5	16
104	J1240103 Level set based-topology optimization of heat control devices. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J1240103--_J1240103-.	0.0	0
105	Structural Optimization of a Brake Disc. Journal of the Japan Society for Precision Engineering, 2014, 80, 763-770.	0.0	1
106	Topology optimization of an electromagnetic cloak using a ferrite material. , 2014, , .		0
107	Implantable catheter flow sensor with legs in air passage for laboratory animal. , 2014, , .		2
108	Topology optimization for locally resonant sonic materials. Applied Physics Letters, 2014, 104, .	1.5	26

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109	Migration Linked to Fucci-Indicated Cell Cycle Is Controlled by PTH and Mechanical Stress. <i>Journal of Cellular Physiology</i> , 2014, 229, 1353-1358.	2.0	16
110	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.	0.5	5
111	MPS- FEM PARTITIONED COUPLING APPROACH FOR FLUID-STRUCTURE INTERACTION WITH FREE SURFACE FLOW. <i>International Journal of Computational Methods</i> , 2014, 11, 1350101.	0.8	32
112	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
113	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
114	Topology optimization of acoustic metamaterials with negative mass density using a level set-based method. <i>Mechanical Engineering Journal</i> , 2014, 1, DSM0040-DSM0040.	0.2	0
115	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.	0.1	7
116	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.	0.1	1
117	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
118	A local search-based bi-objective optimization considering distance constraints. <i>Transactions of the JSME (in Japanese)</i> , 2014, 80, DSM0389-DSM0389.	0.1	0
119	Topological sensitivity of the objective function defined on morphing boundaries of two-dimensional heat conduction problems. <i>WIT Transactions on Modelling and Simulation</i> , 2014, , .	0.0	1
120	1214 Multiobjective optimization based on a local search technique considering distance constraints : adaptive adjustment of the number of points. <i>Proceedings of the Optimization Symposium</i> , 2014, 2014.11, _1214-1_-_1214-5_.	0.0	0
121	Topology Optimization for a Dielectric Optical Cloak Based on an Exact Level Set Approach. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 2073-2076.	1.2	30
122	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
123	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
124	An immersed boundary element method for level-set based topology optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2013, 93, 960-988.	1.5	25
125	Level set based topology optimization for optical cloaks. <i>Applied Physics Letters</i> , 2013, 102, , .	1.5	61
126	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.	0.3	6

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127	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
128	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
129	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
130	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
131	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
132	Topology Optimization Method Using Level Set Boundary Expressions in Navier Stokes Flow. , 2012, , .		1
133	Level Set-Based Robust Topology Design Considering Spatial Uncertainty. , 2012, , .		1
134	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
135	Design of Mechanical Structures Considering Harmonic Loads Using Level Set-Based Topology Optimization. , 2012, , .		0
136	Level set-based structural topology optimization of a metallic waveguide loaded with ferrite. , 2012, , .		0
137	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
138	Level Set-Based Topology Optimization for the Design of a Ferromagnetic Waveguide. IEEE Transactions on Magnetics, 2012, 48, 3072-3075.	1.2	2
139	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
140	A topology optimization method based on the level set method for the design of negative permeability dielectric metamaterials. Computer Methods in Applied Mechanics and Engineering, 2012, 237-240, 192-211.	3.4	86
141	A study on topology optimization using the level-set function and BEM. , 2012, , .		3
142	Study on Electric Intensity Dependency of Laser Action in Randomly Distributed Dielectric Rod. IEEE Transactions on Electronics, Information and Systems, 2012, 132, 89-95.	0.1	0
143	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
144	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

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145	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
146	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
147	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
148	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
149	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
150	Power generation enhancement of solid oxide fuel cell by cathodeâ€œelectrolyte interface modification in mesoscale assisted by level set-based optimization calculation. Journal of Power Sources, 2011, 196, 3485-3495.	4.0	40
151	Topology optimization using a reactionâ€œdiffusion equation. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2407-2420.	3.4	79
152	Design of Compliant Thermal Actuators Using Structural Optimization Based on the Level Set Method. Journal of Computing and Information Science in Engineering, 2011, 11, .	1.7	14
153	A Level Set-Based Topology Optimization Method for Maximizing Thermal Diffusivity in Problems Including Design-Dependent Effects. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	1.7	97
154	Level set-based topology optimisation of a compliant mechanism design using mathematical programming. Mechanical Sciences, 2011, 2, 91-98.	0.5	15
155	A shape sensitivity analysis approach based on the boundary element method. , 2011, , .		0
156	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
157	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
158	A structural optimization method based on the level set method using a new geometryâ€œbased reâ€œinitialization scheme. International Journal for Numerical Methods in Engineering, 2010, 83, 1580-1624.	1.5	87
159	A topology optimization method based on the level set method incorporating a fictitious interface energy. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2876-2891.	3.4	486
160	Topology optimization of magnetic actuator based on a level-set and a phase-field approach. , 2010, , .		0
161	A Shape and Topology Optimization Method Incorporating Level Set Boundary Expressions for Vibration Problems. , 2010, , .		0
162	Level Set-Based Topology Optimization for Mechanical Structures with Large Deformation Using a Particle Method. , 2010, , .		0

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163	A Level Set Based Topology Optimization Method Targeting Dynamic Characteristics of Rotational Symmetry Structures. , 2010, , .		0
164	Robust Design Using Level-Set Based Topology Optimization for Coupled Thermal and Structural Problems. , 2010, , .		3
165	Level set-based structural topology optimization of thermal deformation control structures using thermoelectric devicesThermoelectric Devices. , 2010, , .		1
166	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
167	Level Set-Based Topology Optimization Method for Thermal Problems Considering Design-Dependent Boundary Effects. , 2009, , .		0
168	A Structural Optimization Method for Universal Design of Compliant Mechanism Scissors. , 2009, , .		0
169	A Structural Optimization Method Incorporating Level Set Boundary Expressions Based on the Concept of the Phase Field Method. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2009, 75, 550-558.	0.2	17
170	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
171	Reliability-Based Topology Optimization Incorporating Level Set Boundary Expressions(Mechanical) Tj ETQq1 1 0.784314 rgBT /Overl... Engineers, Part C, 2009, 75, 2633-2641.	0.2	1
172	Structural Optimization of Compliant Thermal Micro-Actuators Based on the Level Set Method. , 2008, , .		3
173	A New Structural Optimization Method Based on the Level Set Method for Vibration Problems and Heat Conduction Problems. , 2008, , .		1
174	Design of Compliant Thermal Actuators Using Structural Optimization Based on the Level Set Method. , 2008, , .		2
175	Development of a novel high performance continuous cake-less filtration system. , 2008, , .		0
176	An acoustic metasurface design for wave motion conversion of longitudinal waves to transverse waves using topology optimization. , 0, .		1
177	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
178	Level Set-Based Topology Optimization of Two Dimensional Heat Conduction Problems using the Boundary Element Method. , 0, , .		0
179	Generating Structural Configurations Having a Number of Specified Eigenfrequencies using a Level Set-Based Topology Optimization Method. , 0, , .		0