

# Takayuki Yamada

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Topology optimization with a closed cavity exclusion constraint for additive manufacturing based on the fictitious physical model approach. <i>Additive Manufacturing</i> , <b>2022</b> , 52, 102630	6.1	0
158	Topology optimization for transient response problems involving thermoelastic materials. <i>Finite Elements in Analysis and Design</i> , <b>2022</b> , 201, 103695	2.2	0
157	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> , <b>2022</b> , 101, 276-308	4.5	11
156	Topology optimization for the elastic field using the lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , <b>2022</b> , 110, 123-134	2.7	0
155	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> , <b>2022</b> , 393, 114742	5.7	0
154	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> , <b>2022</b> , 394, 114863	5.7	0
153	Minimizing creep deformation via topology optimization. <i>Finite Elements in Analysis and Design</i> , <b>2022</b> , 207, 103758	2.2	2
152	Topology optimization of dynamic problems based on finite deformation theory. <i>International Journal for Numerical Methods in Engineering</i> , <b>2021</b> , 122, 4486-4506	2.4	1
151	3D-Printed Micro-Tweezers with a Compliant Mechanism Designed Using Topology Optimization. <i>Micromachines</i> , <b>2021</b> , 12,	3.3	5
150	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). <i>Transactions of the JSME (in Japanese)</i> , <b>2021</b> , 87, 20-00382-20-00382	0.2	
149	Multi-material robust topology optimization considering uncertainty of material properties. <i>Transactions of the JSME (in Japanese)</i> , <b>2021</b> , 87, 21-00138-21-00138	0.2	
148	Full-scale 3D structural topology optimization using adaptive mesh refinement based on the level-set method. <i>Finite Elements in Analysis and Design</i> , <b>2021</b> , 194, 103561	2.2	12
147	Topology optimization considering the distortion in additive manufacturing. <i>Finite Elements in Analysis and Design</i> , <b>2021</b> , 193, 103558	2.2	4
146	Topology optimization of acoustic metasurfaces by using a two-scale homogenization method. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 98, 465-497	4.5	3
145	Level set-based topology optimization for graded acoustic metasurfaces using two-scale homogenization. <i>Finite Elements in Analysis and Design</i> , <b>2021</b> , 196, 103606	2.2	2
144	Level set-based topology optimization for two dimensional turbulent flow using an immersed boundary method. <i>Journal of Computational Physics</i> , <b>2021</b> , 446, 110630	4.1	1
143	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> , <b>2021</b> , 87, 20-00412-20-00412		

142	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> , <b>2020</b> , 63, 90-100	0.8	5
141	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> , <b>2020</b> , 121, 3926-3954	2.4	8
140	Topology optimization for unifying deposit thickness in electroplating process. <i>Structural and Multidisciplinary Optimization</i> , <b>2020</b> , 62, 1767-1785	3.6	0
139	FreeFEM++ code for reaction-diffusion equation based topology optimization: for high-resolution boundary representation using adaptive mesh refinement. <i>Structural and Multidisciplinary Optimization</i> , <b>2020</b> , 62, 439-455	3.6	15
138	Level-set based topology optimization considering milling directions via fictitious physical model. <i>Mechanical Engineering Journal</i> , <b>2020</b> , 7, 20-00226-20-00226	0.5	2
137	Isogeometric topology optimization of anisotropic metamaterials for controlling high-frequency electromagnetic wave. <i>International Journal for Numerical Methods in Engineering</i> , <b>2020</b> , 121, 1218-1247	2.4	11
136	A wavelength selective emitter design method using hyperbolic tangent level set-based shape optimization. <i>Optics Communications</i> , <b>2020</b> , 463, 125405	2	1
135	A topology optimization method in rarefied gas flow problems using the Boltzmann equation. <i>Journal of Computational Physics</i> , <b>2019</b> , 395, 60-84	4.1	4
134	Geometric shape features extraction using a steady state partial differential equation system. <i>Journal of Computational Design and Engineering</i> , <b>2019</b> , 6, 647-656	4.6	4
133	Topology optimization for fluid flows using the MPS method incorporating the level set method. <i>Computers and Fluids</i> , <b>2019</b> , 188, 86-101	2.8	4
132	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> , <b>2019</b> , 85, 18-00423-18-00423	0.2	
131	Imposing geometrical constraint in topology optimization for additive manufacturing. <i>Transactions of the JSME (in Japanese)</i> , <b>2019</b> , 85, 18-00508-18-00508	0.2	
130	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> , <b>2019</b> , 18, 151-159	0.1	1
129	Topology optimization with geometrical feature constraints based on the partial differential equation system for geometrical features (Overhang constraints considering geometrical singularities in additive manufacturing). <i>Transactions of the JSME (in Japanese)</i> , <b>2019</b> , 85, 19-00129-19-00129	0.2	
128	Thickness Constraints for Topology Optimization Using the Fictitious Physical Model <b>2019</b> , 483-490		3
127	Reliability-based topology optimization under shape uncertainty modeled in Eulerian description. <i>Structural and Multidisciplinary Optimization</i> , <b>2019</b> , 59, 75-91	3.6	4
126	Level Set-Based Topology Optimization with Manufacturing Constraint with Manufacturing Directions via Fictitious Physical Model <b>2019</b> ,		1
125	Data mining based on clustering and association rule analysis for knowledge discovery in multiobjective topology optimization. <i>Expert Systems With Applications</i> , <b>2019</b> , 119, 247-261	7.8	26

124	A design method of spatiotemporal optical pulse using level-set based time domain topology optimization. <i>International Journal for Numerical Methods in Engineering</i> , <b>2019</b> , 117, 605-622	2.4	1
123	Topology optimization for hyperbolic acoustic metamaterials using a high-frequency homogenization method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 335, 419-471	5.7	23
122	Optimum design of an acoustic metamaterial with negative bulk modulus in an acoustic-elastic coupled system using a level set based topology optimization method. <i>International Journal for Numerical Methods in Engineering</i> , <b>2018</b> , 113, 1300-1339	2.4	16
121	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> , <b>2018</b> , 140,	3	26
120	Shape sensitivity for a two-phase heat conduction problem considering nanoscale effects. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2018</b> , 12, JAMDSM0003-JAMDSM0003	0.6	0
119	Topology optimization method for incompressible viscous flow applying an immersed boundary method. <i>Transactions of the JSME (in Japanese)</i> , <b>2018</b> , 84, 17-00551-17-00551	0.2	1
118	Topology Optimization for Unifying Deposit Thickness in Electroplating Process <b>2018</b> , 1767-1782		
117	A fundamental study on topology optimization for turbulent flows. <i>The Proceedings of OPTIS</i> , <b>2018</b> , 2018.13, 109	0	
116	Level set-based topology optimization for free surface flow using MPS method. <i>The Proceedings of OPTIS</i> , <b>2018</b> , 2018.13, 106	0	
115	Simultaneous optimization of electric current and layout of actuators for shape control. <i>The Proceedings of OPTIS</i> , <b>2018</b> , 2018.13, 307	0	
114	Multi-objective optimization for Train scheduling of lines with transmit based signaling system. <i>The Proceedings of OPTIS</i> , <b>2018</b> , 2018.13, 123	0	
113	Clustering method for pareto-optimal solution set obtained by 3D multiobjective topology optimization. <i>The Proceedings of OPTIS</i> , <b>2018</b> , 2018.13, 308	0	
112	Reaction-diffusion equation based topology optimization combined with the modified conjugate gradient method. <i>Finite Elements in Analysis and Design</i> , <b>2018</b> , 140, 84-95	2.2	9
111	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> , <b>2018</b> , 331, 116-137	5.7	15
110	Orthotropic material orientation optimization method in composite laminates. <i>Structural and Multidisciplinary Optimization</i> , <b>2018</b> , 57, 815-828	3.6	16
109	Thermal Performance Optimization in Electric Vehicle Power Trains by Locally Orthotropic Surface Layer Design. <i>Journal of Mechanical Design, Transactions of the ASME</i> , <b>2018</b> , 140,	3	4
108	Optimization of dispersive coefficients in the homogenization of the wave equation in periodic structures. <i>Numerische Mathematik</i> , <b>2018</b> , 140, 265-326	2.2	9
107	A heuristic approach for actuator layout designs in deformable mirror devices based on current value optimization. <i>Structural and Multidisciplinary Optimization</i> , <b>2018</b> , 58, 1243-1254	3.6	5

106	Development of implantable catheter flow sensor into inside of bronchi for laboratory animal. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 175-185	1.7	8
105	Pareto frontier exploration in multiobjective topology optimization using adaptive weighting and point selection schemes. <i>Structural and Multidisciplinary Optimization</i> , <b>2017</b> , 55, 409-422	3.6	11
104	Topology optimization of hyperbolic metamaterials for an optical hyperlens. <i>Structural and Multidisciplinary Optimization</i> , <b>2017</b> , 55, 913-923	3.6	21
103	Optimal design of electromagnetic cloaks with multiple dielectric materials by topology optimization. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 201104	3.4	19
102	Topology optimization of a no-moving-part valve incorporating Pareto frontier exploration. <i>Structural and Multidisciplinary Optimization</i> , <b>2017</b> , 56, 839-851	3.6	10
101	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> , <b>2017</b> , 404, 15-30	3.9	10
100	Manufacturability evaluation for molded parts using fictitious physical models, and its application in topology optimization. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 92, 1391-1409	3.3	20
99	FGF Suppresses Poldip2 Expression in Osteoblasts. <i>Journal of Cellular Biochemistry</i> , <b>2017</b> , 118, 1670-1677	4.7	2
98	. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 4369-4377	4	6
97	Level set-based topology optimization for the design of a peltier effect thermoelectric actuator. <i>Structural and Multidisciplinary Optimization</i> , <b>2017</b> , 55, 1671-1683	3.6	5
96	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> , <b>2017</b> , 55, 1311-1327	3.6	15
95	A formulation for optimal design problem of compliant displacement magnification mechanisms based on effective energy concept. <i>Mechanical Engineering Letters</i> , <b>2017</b> , 3, 17-00453-17-00453	0.5	0
94	Topology optimization for multi-material structures based on the level set method. <i>Transactions of the JSME (in Japanese)</i> , <b>2017</b> , 83, 17-00069-17-00069	0.2	6
93	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> , <b>2017</b> , 83, 17-00081-17-00081	0.2	1
92	A topology optimization method for rarefied gas flows. <i>Transactions of the JSME (in Japanese)</i> , <b>2017</b> , 83, 17-00135-17-00135	0.2	
91	Topology optimization for unification deposit thickness on electroplating process. <i>Transactions of the JSME (in Japanese)</i> , <b>2017</b> , 83, 17-00185-17-00185	0.2	1
90	Local-in-time adjoint-based topology optimization of unsteady fluid flows using the lattice Boltzmann method. <i>Mechanical Engineering Journal</i> , <b>2017</b> , 4, 17-00120-17-00120	0.5	11
89	Robust Topology Optimization for Enlarging the Bandwidth of an Electromagnetic Cloaking. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , <b>2017</b> , 2017, J1210204	0	

88	Topological derivative for an acoustic-elastic coupled system based on two-phase material model. <i>Mechanical Engineering Letters</i> , <b>2016</b> , 2, 16-00246-16-00246	0.5	4
87	Optimum design of lattice structures based on continuum expression using micropolar continuum theory. <i>Transactions of the JSME (in Japanese)</i> , <b>2016</b> , 82, 16-00171-16-00171	0.2	
86	Robust topology optimization of compliant mechanism using multiobjective optimization method. <i>Transactions of the JSME (in Japanese)</i> , <b>2016</b> , 82, 16-00178-16-00178	0.2	
85	Single-domain (110) PbTiO <sub>3</sub> thin films: Thermodynamic theory and experiments. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	8
84	Topology optimization in thermal-fluid flow using the lattice Boltzmann method. <i>Journal of Computational Physics</i> , <b>2016</b> , 307, 355-377	4.1	58
83	Gradient-based multiobjective optimization using a distance constraint technique and point replacement. <i>Engineering Optimization</i> , <b>2016</b> , 48, 1226-1250	2	9
82	A study to realize acoustic cloak using topology optimization based on level-set method.. <i>The Proceedings of the Dynamics &amp; Design Conference</i> , <b>2016</b> , 2016, 444	0	
81	Topology optimization for the design of acoustic metasurface incorporating acoustic-elastic coupling effect based on two-phase material model. <i>The Proceedings of Design &amp; Systems Conference</i> , <b>2016</b> , 2016.26, 2317	0	
80	Evaluation Method of Wave Dispersive Effect in Heterogeneous Media Using a Non-convex and Multimodal Optimization Method. <i>The Proceedings of Design &amp; Systems Conference</i> , <b>2016</b> , 2016.26, 1301 <sup>o</sup>		
79	Design Study of Lightweight Automatic Transmission Parts for Vehicles Using Level Set-Based Topology Optimization <b>2016</b> ,		4
78	BMP-2 Enhances Lgr4 Gene Expression in Osteoblastic Cells. <i>Journal of Cellular Physiology</i> , <b>2016</b> , 231, 887-95	7	17
77	Level set-based topology optimization targeting micropumps employing an induced-charge electro-osmosis flow. <i>Transactions of the JSME (in Japanese)</i> , <b>2016</b> , 82, 15-00406-15-00406	0.2	1
76	Robust topology optimization of thin plate structure under concentrated load with uncertain load position. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2016</b> , 10, JAMDSM0057-JAMDSM0057	0.6	8
75	Simultaneous optimization of layout and task schedule for robotic cellular manufacturing systems. <i>Computers and Industrial Engineering</i> , <b>2016</b> , 102, 396-407	6.4	14
74	Detection of kinetic heartbeat signals from airflow at mouth by catheter flow sensor with temperature compensation <b>2016</b> ,		8
73	Shape and topology optimization based on the convected level set method. <i>Structural and Multidisciplinary Optimization</i> , <b>2016</b> , 54, 659-672	3.6	13
72	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> , <b>2015</b> , 61, 61-70	2.6	30
71	Driving force profile design in comb drive electrostatic actuators using a level set-based shape optimization method. <i>Structural and Multidisciplinary Optimization</i> , <b>2015</b> , 51, 369-383	3.6	4

70	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> , <b>2015</b> , 358, 84-96	3.9	21
69	Transparotid excision of rhabdomyosarcoma in masseter muscle: A case report. <i>Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology</i> , <b>2015</b> , 27, 45-48	0.4	3
68	Matlab code for a level set-based topology optimization method using a reaction diffusion equation. <i>Structural and Multidisciplinary Optimization</i> , <b>2015</b> , 51, 1159-1172	3.6	75
67	A topology optimization method for a coupled thermalfluid problem using level set boundary expressions. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 81, 878-888	4.9	107
66	Multiobjective optimization using an aggregative gradient-based method. <i>Structural and Multidisciplinary Optimization</i> , <b>2015</b> , 51, 173-182	3.6	21
65	An acoustic metasurface design for wave motion conversion of longitudinal waves to transverse waves using topology optimization. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 221909	3.4	41
64	Extraction of heartbeat signal from airflow at mouth by flow sensor <b>2015</b> ,		7
63	Detection of both heartbeat and respiration signals from airflow at mouth by using single catheter flow sensor <b>2015</b> ,		8
62	Adrenergic receptor activation suppresses bone morphogenetic protein (BMP)-induced alkaline phosphatase expression in osteoblast-like MC3T3E1 cells. <i>Journal of Cellular Biochemistry</i> , <b>2015</b> , 116, 1144-52	4.7	7
61	FEM-Based Simulation for Workpiece Deformation in Thin-Wall Milling. <i>International Journal of Automation Technology</i> , <b>2015</b> , 9, 122-128	0.8	13
60	J1240103 Level set based-topology optimization of heat control devices. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , <b>2015</b> , 2015, _J1240103--_J1240103-	0	
59	MPSBEM PARTITIONED COUPLING APPROACH FOR FLUIDSTRUCTURE INTERACTION WITH FREE SURFACE FLOW. <i>International Journal of Computational Methods</i> , <b>2014</b> , 11, 1350101	1.1	21
58	Level Set-Based Topology Optimization for the Design of Light-Trapping Structures. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 729-732	2	9
57	Topology optimization using the lattice Boltzmann method incorporating level set boundary expressions. <i>Journal of Computational Physics</i> , <b>2014</b> , 274, 158-181	4.1	56
56	Topology optimization of acoustic metamaterials with negative mass density using a level set-based method. <i>Mechanical Engineering Journal</i> , <b>2014</b> , 1, DSM0040-DSM0040	0.5	
55	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> , <b>2014</b> , 80, DSM0054-DSM0054	0.2	6
54	Level set-based topology optimization of steady state incompressible viscous flows under outflow rate inequality constraint. <i>Transactions of the JSME (in Japanese)</i> , <b>2014</b> , 80, DSM0213-DSM0213	0.2	1
53	A topology optimisation for three-dimensional acoustics with the level set method and the fast multiple boundary element method. <i>Mechanical Engineering Journal</i> , <b>2014</b> , 1, CM0039-CM0039	0.5	35

52	A local search-based bi-objective optimization considering distance constraints. <i>Transactions of the JSME (in Japanese)</i> , <b>2014</b> , 80, DSM0389-DSM0389	0.2	
51	Structural Optimization of a Brake Disc. <i>Journal of the Japan Society for Precision Engineering</i> , <b>2014</b> , 80, 763-770	0.1	1
50	Implantable catheter flow sensor with legs in air passage for laboratory animal <b>2014</b> ,		2
49	Topology optimization for locally resonant sonic materials. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 191905	3.4	19
48	Migration linked to FUCCI-indicated cell cycle is controlled by PTH and mechanical stress. <i>Journal of Cellular Physiology</i> , <b>2014</b> , 229, 1353-8	7	14
47	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> , <b>2014</b> , 33, 998-1016	0.7	5
46	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> , <b>2014</b> , 2014.11, _1214-1_-_1214-5_		
45	Topology Optimization for a Dielectric Optical Cloak Based on an Exact Level Set Approach. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 2073-2076	2	19
44	Level Set-Based Topology Optimization for the Design of an Electromagnetic Cloak With Ferrite Material. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 2081-2084	2	16
43	Topology optimization of an acoustic metamaterial with negative bulk modulus using local resonance. <i>Finite Elements in Analysis and Design</i> , <b>2013</b> , 72, 1-12	2.2	59
42	An immersed boundary element method for level-set based topology optimization. <i>International Journal for Numerical Methods in Engineering</i> , <b>2013</b> , 93, 960-988	2.4	23
41	Level set based topology optimization for optical cloaks. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 251106	3.4	46
40	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> , <b>2013</b> , 7, 630-643	0.6	5
39	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> , <b>2013</b> , 79, 3234-3247		
38	Topology Optimization of Magnetostrictive Actuator Problems Based on the Ideas of Level Set Method and Phase Field Method. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , <b>2013</b> , 79, 164-176		
37	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> , <b>2013</b> , 79, 2138-2151		
36	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> , <b>2013</b> , 79, 2152-2163		1
35	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> , <b>2013</b> , 79, 2233-2237		



34	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> , <b>2012</b> , 78, 928-942		1
33	Level Set-Based Topology Optimization for the Design of a Ferromagnetic Waveguide. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 3072-3075	2	2
32	CO-JP-7 A Layout Design Optimization Method for Multi-robot Assembly Systems. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , <b>2012</b> , 2012, _CO-JP-7-1-_CO-JP-7-9	0	3
31	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> , <b>2012</b> , 237-240, 192-211	5.7	69
30	Topology Optimization Method Using Level Set Boundary Expressions in Navier Stokes Flow <b>2012</b> ,		1
29	Level Set-Based Robust Topology Design Considering Spatial Uncertainty <b>2012</b> ,		1
28	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> , <b>2012</b> , 78, 228-239		2
27	A study on topology optimization using the level-set function and BEM <b>2012</b> ,		2
26	Study on Electric Intensity Dependency of Laser Action in Randomly Distributed Dielectric Rod. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2012</b> , 132, 89-95	0.1	
25	J122025 A study of the optimum design of the locally resonant sonic materials using the level set based-topology optimization method. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , <b>2012</b> , 2012, _J122025-1-_J122025-2	0	
24	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> , <b>2011</b> , 77, 1-13		2
23	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> , <b>2011</b> , 77, 4001-4014		2
22	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> , <b>2011</b> , 6, 567-578		4
21	Topology Optimization of a Magnetic Actuator Based on a Level Set and Phase-Field Approach. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 1318-1321	2	20
20	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> , <b>2011</b> , 196, 3485-3495	8.9	26
19	Topology optimization using a reaction-diffusion equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2011</b> , 200, 2407-2420	5.7	64
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