Masaki Otomori

List of Publications by Year
in descending order

23 papers	507 citations	840776 11 h-index	940533 16 g-index
23 all docs	23 docs citations	23 times ranked	416 citing authors

#	Article	IF	Citations
1	Topology optimization of hyperbolic metamaterials for an optical hyperlens. Structural and Multidisciplinary Optimization, 2017, 55, 913-923.	3.5	25
2	Design Study of Lightweight Automatic Transmission Parts for Vehicles Using Level Set-Based Topology Optimization. , 2016, , .		5
3	Shape and topology optimization based on the convected level set method. Structural and Multidisciplinary Optimization, 2016, 54, 659-672.	3.5	19
4	Structural optimization methods of nonlinear static analysis with contact and its application to design lightweight gear box of automatic transmission of vehicles. Structural and Multidisciplinary Optimization, 2016, 53, 1383-1394.	3.5	12
5	An acoustic metasurface design for wave motion conversion of longitudinal waves to transverse waves using topology optimization. Applied Physics Letters, 2015, 107, .	3.3	60
6	Matlab code for a level set-based topology optimization method using a reaction diffusion equation. Structural and Multidisciplinary Optimization, 2015, 51, 1159-1172.	3.5	127
7	Structural optimization methods and techniques to design light and efficient automatic transmission of vehicles with low radiated noise. Structural and Multidisciplinary Optimization, 2014, 50, 1137-1150.	3.5	22
8	Level Set-Based Topology Optimization for the Design of Light-Trapping Structures. IEEE Transactions on Magnetics, 2014, 50, 729-732.	2.1	11
9	Topology optimization of acoustic metamaterials with negative mass density using a level set-based method. Mechanical Engineering Journal, 2014, 1, DSM0040-DSM0040.	0.4	0
10	Level Set-Based Topology Optimization for the Design of an Electromagnetic Cloak With Ferrite Material. IEEE Transactions on Magnetics, 2013, 49, 2081-2084.	2.1	20
11	Topology optimization of an acoustic metamaterial with negative bulk modulus using local resonance. Finite Elements in Analysis and Design, 2013, 72, 1-12.	3.2	82
12	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
13	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
14	Structural Optimization of Metallic Patch Antenna Using Surface Impedance Method. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2013, 79, 4084-4094.	0.2	1
15	Level Set-Based Robust Topology Design Considering Spatial Uncertainty. , 2012, , .		1
16	Level set-based structural topology optimization of a metallic waveguide loaded with ferrite. , 2012, , .		0
17	Level Set-Based Topology Optimization for the Design of a Ferromagnetic Waveguide. IEEE Transactions on Magnetics, 2012, 48, 3072-3075.	2.1	2
18	INVERSE DESIGN OF DIELECTRIC MATERIALS BY TOPOLOGY OPTIMIZATION. Progress in Electromagnetics Research, 2012, 127, 93-120.	4.4	15

#	ARTICLE	IF	CITATIONS
19	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.	6.6	86
20	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
21	A Topology Optimization Method Based on the Multiple Phase Projection Method (A New Formulation) Tj ETQq1 1 0.784314 rgBT /Ov Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2011, 77, 836-846.	0.2	1
22	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
23	Level set-based topology optimisation of a compliant mechanism design using mathematical programming. Mechanical Sciences, 2011, 2, 91-98.	1.0	15