

Xiaodong Huang

List of Publications by Year in descending order

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150
papers

7,309
citations

57719

44
h-index

66879

78
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150
all docs

150
docs citations

150
times ranked

3319
citing authors

#	ARTICLE	IF	CITATIONS
1	Convergent and mesh-independent solutions for the bi-directional evolutionary structural optimization method. <i>Finite Elements in Analysis and Design</i> , 2007, 43, 1039-1049.	1.7	573
2	Bi-directional evolutionary topology optimization of continuum structures with one or multiple materials. <i>Computational Mechanics</i> , 2009, 43, 393-401.	2.2	392
3	A further review of ESO type methods for topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2010, 41, 671-683.	1.7	302
4	Topological design of microstructures of cellular materials for maximum bulk or shear modulus. <i>Computational Materials Science</i> , 2011, 50, 1861-1870.	1.4	224
5	Bi-directional Evolutionary Structural Optimization on Advanced Structures and Materials: A Comprehensive Review. <i>Archives of Computational Methods in Engineering</i> , 2018, 25, 437-478.	6.0	214
6	Design of lattice structures with controlled anisotropy. <i>Materials and Design</i> , 2016, 93, 443-447.	3.3	212
7	Evolutionary topological optimization of vibrating continuum structures for natural frequencies. <i>Computers and Structures</i> , 2010, 88, 357-364.	2.4	203
8	Topology optimization of microstructures of cellular materials and composites for macrostructures. <i>Computational Materials Science</i> , 2013, 67, 397-407.	1.4	146
9	Mechanical properties of luffa sponge. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 15, 141-152.	1.5	121
10	Concurrent topology optimization of structures and their composite microstructures. <i>Computers and Structures</i> , 2014, 133, 103-110.	2.4	121
11	Optimal design of periodic structures using evolutionary topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2008, 36, 597-606.	1.7	112
12	Shape optimization of metallic yielding devices for passive mitigation of seismic energy. <i>Engineering Structures</i> , 2010, 32, 2258-2267.	2.6	110
13	Topology optimization of nonlinear structures under displacement loading. <i>Engineering Structures</i> , 2008, 30, 2057-2068.	2.6	109
14	Simple cubic three-dimensional auxetic metamaterials. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 1515-1522.	0.7	109
15	Topology Optimization of Photonic and Phononic Crystals and Metamaterials: A Review. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900017.	1.3	107
16	Topological configuration analysis and design for foam filled multi-cell tubes. <i>Engineering Structures</i> , 2018, 155, 235-250.	2.6	103
17	On the axial splitting and curling of circular metal tubes. <i>International Journal of Mechanical Sciences</i> , 2002, 44, 2369-2391.	3.6	102
18	Crushing analysis and multiobjective optimization for functionally graded foam-filled tubes under multiple load cases. <i>International Journal of Mechanical Sciences</i> , 2014, 89, 439-452.	3.6	96

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19	Evolutionary topology optimization of continuum structures with an additional displacement constraint. <i>Structural and Multidisciplinary Optimization</i> , 2010, 40, 409-416.	1.7	95
20	Evolutionary topological design for phononic band gap crystals. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 595-617.	1.7	93
21	Topological optimization for the design of microstructures of isotropic cellular materials. <i>Engineering Optimization</i> , 2013, 45, 1331-1348.	1.5	88
22	Evolutionary topology optimization of continuum structures with smooth boundary representation. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 2143-2159.	1.7	85
23	Topology optimization for microstructures of viscoelastic composite materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 283, 503-516.	3.4	79
24	Multi-scale design of composite materials and structures for maximum natural frequencies. <i>Materials & Design</i> , 2013, 51, 1023-1034.	5.1	77
25	Hybrid anisotropic plasmonic metasurfaces with multiple resonances of focused light beams. <i>Nano Letters</i> , 2021, 21, 8917-8923.	4.5	76
26	Comparison of functionally-graded structures under multiple loading angles. <i>Thin-Walled Structures</i> , 2015, 94, 334-347.	2.7	75
27	Dynamical bending analysis and optimization design for functionally graded thickness (FGT) tube. <i>International Journal of Impact Engineering</i> , 2015, 78, 128-137.	2.4	73
28	Designing orthotropic materials for negative or zero compressibility. <i>International Journal of Solids and Structures</i> , 2014, 51, 4038-4051.	1.3	71
29	Topology optimization of energy-absorbing structures. <i>International Journal of Crashworthiness</i> , 2007, 12, 663-675.	1.1	67
30	Topological design of 3D chiral metamaterials based on couple-stress homogenization. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 131, 372-386.	2.3	66
31	Energy absorption in splitting square metal tubes. <i>Thin-Walled Structures</i> , 2002, 40, 153-165.	2.7	65
32	Multiobjective robust optimization for crashworthiness design of foam filled thin-walled structures with random and interval uncertainties. <i>Engineering Structures</i> , 2015, 88, 111-124.	2.6	65
33	Behaviour of luffa sponge material under dynamic loading. <i>International Journal of Impact Engineering</i> , 2013, 57, 17-26.	2.4	63
34	A method to evaluate the formability of high-strength steel in hot stamping. <i>Materials & Design</i> , 2015, 77, 95-109.	5.1	58
35	Crashworthiness optimization of automotive parts with tailor rolled blank. <i>Engineering Structures</i> , 2018, 169, 201-215.	2.6	58
36	Creating acoustic topological insulators through topology optimization. <i>Mechanical Systems and Signal Processing</i> , 2021, 146, 107054.	4.4	57

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37	Bi-directional evolutionary optimization for photonic band gap structures. <i>Journal of Computational Physics</i> , 2015, 302, 393-404.	1.9	56
38	Two-scale optimal design of structures with thermal insulation materials. <i>Composite Structures</i> , 2015, 120, 358-365.	3.1	55
39	Evolutionary topology optimization of continuum structures including design-dependent self-weight loads. <i>Finite Elements in Analysis and Design</i> , 2011, 47, 942-948.	1.7	52
40	Topological Design of Cellular Phononic Band Gap Crystals. <i>Materials</i> , 2016, 9, 186.	1.3	51
41	Topological design of phononic crystals for unidirectional acoustic transmission. <i>Journal of Sound and Vibration</i> , 2017, 410, 103-123.	2.1	51
42	Maximizing spatial decay of evanescent waves in phononic crystals by topology optimization. <i>Computers and Structures</i> , 2017, 182, 430-447.	2.4	50
43	A New Algorithm for Bi-Directional Evolutionary Structural Optimization. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2006, 49, 1091-1099.	0.3	49
44	Topology optimization of compliant mechanisms with desired structural stiffness. <i>Engineering Structures</i> , 2014, 79, 13-21.	2.6	48
45	Smooth topological design of structures using the floating projection. <i>Engineering Structures</i> , 2020, 208, 110330.	2.6	47
46	Bidirectional Evolutionary Topology Optimization for Structures with Geometrical and Material Nonlinearities. <i>AIAA Journal</i> , 2007, 45, 308-313.	1.5	44
47	Topological design of microstructures of multi-phase materials for maximum stiffness or thermal conductivity. <i>Computational Materials Science</i> , 2014, 91, 266-273.	1.4	44
48	Design and experimental validation of self-supporting topologies for additive manufacturing. <i>Virtual and Physical Prototyping</i> , 2019, 14, 382-394.	5.3	43
49	Determination of mechanical properties of the weld line by combining micro-indentation with inverse modeling. <i>Computational Materials Science</i> , 2014, 85, 347-362.	1.4	42
50	Concurrent topological design of composite thermoelastic macrostructure and microstructure with multi-phase material for maximum stiffness. <i>Composite Structures</i> , 2016, 150, 84-102.	3.1	42
51	Concurrent topology optimization of macrostructures and material microstructures for natural frequency. <i>Materials and Design</i> , 2016, 106, 380-390.	3.3	42
52	Topological design of phononic band gap crystals with sixfold symmetric hexagonal lattice. <i>Computational Materials Science</i> , 2017, 139, 97-105.	1.4	42
53	Inverse design of higher-order photonic topological insulators. <i>Physical Review Research</i> , 2020, 2, .	1.3	42
54	Combining genetic algorithms with BESO for topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2009, 38, 511-523.	1.7	40

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55	Evolutionary Topology Optimization of Structures with Multiple Displacement and Frequency Constraints. <i>Advances in Structural Engineering</i> , 2012, 15, 359-372.	1.2	40
56	Convergence of topological patterns of optimal periodic structures under multiple scales. <i>Structural and Multidisciplinary Optimization</i> , 2012, 46, 41-50.	1.7	40
57	Topological design of 3D phononic crystals for ultra-wide omnidirectional bandgaps. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 2405-2415.	1.7	39
58	Influence of thickness of composite layers on failure behaviors of carbon fiber reinforced plastics/aluminum alloy electromagnetic riveted lap joints under high-speed loading. <i>International Journal of Impact Engineering</i> , 2018, 115, 1-9.	2.4	38
59	Designing broad phononic band gaps for in-plane modes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 679-684.	0.9	37
60	Topology optimization of viscoelastic materials on damping and frequency of macrostructures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 337, 305-323.	3.4	36
61	Advantages of Bi-Directional Evolutionary Structural Optimization (BESO) over Evolutionary Structural Optimization (ESO). <i>Advances in Structural Engineering</i> , 2007, 10, 727-737.	1.2	35
62	Multi-objective topology optimization of a vehicle door using multiple material tailor-welded blank (TWB) technology. <i>Advances in Engineering Software</i> , 2018, 124, 1-9.	1.8	35
63	Maximizing wave attenuation in viscoelastic phononic crystals by topology optimization. <i>Ultrasonics</i> , 2019, 94, 419-429.	2.1	35
64	Topology optimization of photonic crystals with exotic properties resulting from Dirac-like cones. <i>Acta Materialia</i> , 2019, 164, 377-389.	3.8	35
65	On smooth or 0/1 designs of the fixed-mesh element-based topology optimization. <i>Advances in Engineering Software</i> , 2021, 151, 102942.	1.8	35
66	SEMDOT: Smooth-edged material distribution for optimizing topology algorithm. <i>Advances in Engineering Software</i> , 2020, 150, 102921.	1.8	33
67	Coding metalens with helical-structured units for acoustic focusing and splitting. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	33
68	Additively manufactured fiber-reinforced composites: A review of mechanical behavior and opportunities. <i>Journal of Materials Science and Technology</i> , 2022, 119, 219-244.	5.6	33
69	Design of 3D orthotropic materials with prescribed ratios for effective Young's moduli. <i>Computational Materials Science</i> , 2013, 67, 229-237.	1.4	32
70	A study on the critical wall thickness of the inner tube for magnetic pulse welding of tubular Al-Fe parts. <i>Journal of Materials Processing Technology</i> , 2016, 227, 138-146.	3.1	32
71	Experimental observations of the double shock deformation mode in density graded honeycombs. <i>International Journal of Impact Engineering</i> , 2019, 134, 103386.	2.4	32
72	Dual-Polarization Second-Order Photonic Topological Insulators. <i>Physical Review Applied</i> , 2021, 15, .	1.5	31

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73	Evolutionary topology optimization of continuum structures considering fatigue failure. <i>Materials and Design</i> , 2019, 166, 107586.	3.3	30
74	Adhesive bond-electromagnetic rivet hybrid joining technique for CFRP/Al structure: Process, design and property. <i>Composite Structures</i> , 2020, 244, 112316.	3.1	30
75	Multiobjective optimization design for vehicle occupant restraint system under frontal impact. <i>Structural and Multidisciplinary Optimization</i> , 2013, 47, 465-477.	1.7	29
76	Optimal Topological Design of Periodic Structures for Natural Frequencies. <i>Journal of Structural Engineering</i> , 2011, 137, 1229-1240.	1.7	28
77	Comparing optimal material microstructures with optimal periodic structures. <i>Computational Materials Science</i> , 2013, 69, 137-147.	1.4	28
78	Water-responsive rapid recovery of natural cellular material. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 34, 283-293.	1.5	28
79	Optimization for twist chirality of structural materials induced by axial strain. <i>Materials Today Communications</i> , 2018, 15, 175-184.	0.9	28
80	Inverse Design of Photonic Topological Insulators with Extra-wide Bandgaps. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900175.	1.2	28
81	Identification of material parameters for aluminum foam at high strain rate. <i>Computational Materials Science</i> , 2013, 74, 65-74.	1.4	27
82	Topology Optimization of an Automotive Tailor-Welded Blank Door. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2015, 137, .	1.7	26
83	Stress optimization of smooth continuum structures based on the distortion strain energy density. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 343, 276-296.	3.4	26
84	Vibration attenuation analysis of periodic underground barriers using complex band diagrams. <i>Computers and Geotechnics</i> , 2020, 128, 103821.	2.3	26
85	Design and fabrication of biphasic cellular materials with transport properties – A modified bidirectional evolutionary structural optimization procedure and MATLAB program. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 8149-8162.	2.5	25
86	Concurrent topology design of structures and materials with optimal material orientation. <i>Composite Structures</i> , 2019, 220, 473-480.	3.1	25
87	Topology optimization of structures considering local material uncertainties in additive manufacturing. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 360, 112786.	3.4	25
88	A new multi-material topology optimization algorithm and selection of candidate materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 386, 114114.	3.4	25
89	Topological design of structures under dynamic periodic loads. <i>Engineering Structures</i> , 2017, 142, 128-136.	2.6	24
90	Two-scale dynamic optimal design of composite structures in the time domain using equivalent static loads. <i>Composite Structures</i> , 2016, 142, 335-345.	3.1	23

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91	Achieving Large Band Gaps in 2D Symmetric and Asymmetric Photonic Crystals. <i>Journal of Lightwave Technology</i> , 2017, 35, 1670-1676.	2.7	22
92	Topology optimization of dynamic acoustic mechanical structures using the ersatz material model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113387.	3.4	22
93	Design of fishnet metamaterials with broadband negative refractive index in the visible spectrum. <i>Optics Letters</i> , 2014, 39, 2415.	1.7	21
94	Maximizing stiffness of functionally graded materials with prescribed variation of thermal conductivity. <i>Computational Materials Science</i> , 2014, 82, 457-463.	1.4	21
95	Numerical investigation of compressive behaviour of luffa-filled tubes. <i>Composites Part B: Engineering</i> , 2015, 73, 149-157.	5.9	21
96	Topology optimization of periodic structures using BESO based on unstructured design points. <i>Structural and Multidisciplinary Optimization</i> , 2016, 53, 271-275.	1.7	21
97	On the shape transformation of cone scales. <i>Soft Matter</i> , 2016, 12, 9797-9802.	1.2	21
98	On-Demand Design of Tunable Complete Photonic Band Gaps based on Bloch Mode Analysis. <i>Scientific Reports</i> , 2018, 8, 14283.	1.6	21
99	Shape and Reinforcement Optimization of Underground Tunnels. <i>Journal of Computational Science and Technology</i> , 2010, 4, 51-63.	0.4	20
100	AN IMPROVED BI-DIRECTIONAL EVOLUTIONARY TOPOLOGY OPTIMIZATION METHOD FOR FREQUENCIES. <i>International Journal of Structural Stability and Dynamics</i> , 2010, 10, 55-75.	1.5	20
101	Topology optimization of photonic structures for all-angle negative refraction. <i>Finite Elements in Analysis and Design</i> , 2016, 117-118, 46-56.	1.7	20
102	Smooth topological design of 3D continuum structures using elemental volume fractions. <i>Computers and Structures</i> , 2020, 231, 106213.	2.4	19
103	Broadband All-angle Negative Refraction by Optimized Phononic Crystals. <i>Scientific Reports</i> , 2017, 7, 7445.	1.6	18
104	Parametric studies and manufacturability experiments on smooth self-supporting topologies. <i>Virtual and Physical Prototyping</i> , 2020, 15, 22-34.	5.3	18
105	Bending hinge characteristic of thin-walled square tubes. <i>International Journal of Crashworthiness</i> , 2005, 10, 275-285.	1.1	17
106	Topology Optimization of Composite Structure Using Bi-Directional Evolutionary Structural Optimization Method. <i>Procedia Engineering</i> , 2011, 14, 2980-2985.	1.2	17
107	Evolutionary topology optimization of hinge-free compliant mechanisms. <i>International Journal of Mechanical Sciences</i> , 2014, 86, 69-75.	3.6	17
108	Concurrent topology optimization of structures and orientation of anisotropic materials. <i>Engineering Optimization</i> , 2020, 52, 1598-1611.	1.5	17

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109	Stress-based multi-material structural topology optimization considering graded interfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 391, 114602.	3.4	17
110	Optimal microstructures of elastoplastic cellular materials under various macroscopic strains. <i>Mechanics of Materials</i> , 2018, 118, 120-132.	1.7	16
111	Reinventing the Wheel. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011, 133, .	1.7	15
112	Realization of multidimensional sound propagation in 3D acoustic higher-order topological insulator. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	15
113	Shell buckling: from morphogenesis of soft matter to prospective applications. <i>Bioinspiration and Biomimetics</i> , 2018, 13, 051001.	1.5	14
114	Reliability-based multiobjective optimisation of vehicle bumper structure holes for the pedestrian flexible legform impact. <i>International Journal of Crashworthiness</i> , 2016, 21, 198-210.	1.1	13
115	Topological design of sandwich structures filling with poroelastic materials for sound insulation. <i>Finite Elements in Analysis and Design</i> , 2022, 199, 103650.	1.7	13
116	Recent developments in evolutionary structural optimization (ESO) for continuum structures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 10, 012196.	0.3	12
117	Reliable optimisation design of vehicle structure crashworthiness under multiple impact cases. <i>International Journal of Crashworthiness</i> , 2017, 22, 26-37.	1.1	12
118	Stress Minimization of Structures Based on Bidirectional Evolutionary Procedure. <i>Journal of Structural Engineering</i> , 2019, 145, 04018256.	1.7	12
119	Inverse design of second-order photonic topological insulators in C3-symmetric lattices. <i>Applied Mathematical Modelling</i> , 2022, 102, 194-206.	2.2	11
120	Predicting the effective stiffness of cellular and composite materials with self-similar hierarchical microstructures. <i>Journal of Mechanics of Materials and Structures</i> , 2013, 8, 341-357.	0.4	10
121	Towards ultra-stiff materials: Surface effects on nanoporous materials. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	10
122	Application of Topological Optimisation Technology to Bridge Design. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2014, 24, 185-191.	0.5	10
123	Buckling-induced retraction of spherical shells: A study on the shape of aperture. <i>Scientific Reports</i> , 2015, 5, 11309.	1.6	10
124	Topology-Optimized 3D Photonic Structures with Maximal Omnidirectional Bandgaps. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800122.	1.3	10
125	Designing photonic materials with complete band gaps by topology optimization. <i>Smart Materials and Structures</i> , 2019, 28, 015025.	1.8	10
126	Smooth topological design of structures with minimum length scale and chamfer/round controls. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 383, 113939.	3.4	10

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127	A Kirigami Approach to Forming a Synthetic Buckliball. <i>Scientific Reports</i> , 2016, 6, 33016.	1.6	9
128	Microstructural design for 2D photonic crystals with large polarization-independent band gaps. <i>Materials Letters</i> , 2017, 207, 176-178.	1.3	9
129	An ultrahigh sensitivity micro-cliff graphene wearable pressure sensor made by instant flash light exposure. <i>Nanoscale</i> , 2021, 13, 15380-15393.	2.8	9
130	Topology optimization of multi-material structures with explicitly graded interfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 398, 115166.	3.4	9
131	Observation of Emergent Dirac Physics at the Surfaces of Acoustic Higher-Order Topological Insulators. <i>Advanced Science</i> , 2022, 9, .	5.6	9
132	Concurrent optimization of macrostructures and material microstructures and orientations for maximizing natural frequency. <i>Engineering Structures</i> , 2020, 209, 109997.	2.6	8
133	Optimizing Support Locations in the Roof-Column Structural System. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2775.	1.3	8
134	A study of shape optimization on the metallic nanoparticles for thin-film solar cells. <i>Nanoscale Research Letters</i> , 2013, 8, 447.	3.1	7
135	To avoid unpractical optimal design without support. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 1589-1595.	1.7	7
136	Inertia Effect on Buckling-Induced Auxetic Metamaterials. <i>International Journal of Protective Structures</i> , 2015, 6, 311-322.	1.4	7
137	A finite-element approach to evaluating the size effects of complex nanostructures. <i>Royal Society Open Science</i> , 2016, 3, 160625.	1.1	6
138	Stress-based topology optimization of continuum structures for the elastic contact problems with friction. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, 54.	1.7	6
139	Acoustic hologram of the metasurface with phased arrays via optimality criteria. <i>Mechanical Systems and Signal Processing</i> , 2022, 180, 109420.	4.4	4
140	Natural frequency optimization of structures using a soft-kill BESO method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 10, 012191.	0.3	3
141	Investigating size effects of complex nanostructures through Young-Laplace equation and finite element analysis. <i>Journal of Applied Physics</i> , 2015, 118, 204301.	1.1	3
142	All-angle negative refraction flatlens with a broad bandwidth. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017, 27, 11-16.	1.0	3
143	Controlling the maximum stress in structural stiffness topology optimization of geometrical and material nonlinear structures. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 3971-3998.	1.7	3
144	Energy absorption of metallic structures involving ductile tearing. <i>International Journal of Vehicle Design</i> , 2005, 37, 224.	0.1	2

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145	Luffa Sponge as a Sustainable Engineering Material. Applied Mechanics and Materials, 0, 238, 3-8.	0.2	2
146	A cascadic multilevel optimization framework for the concurrent design of the fiber-reinforced composite structure through the NURBS surface. Engineering With Computers, 2023, 39, 2735-2756.	3.5	2
147	Fishnet metamaterial with double negative refractive index in blue region of visible spectrum. Proceedings of SPIE, 2013, , .	0.8	1
148	Effects of electric field and pressure on the shrinkage behaviors of cylindrical pore in piezoelectric materials. International Journal of Damage Mechanics, 2016, 25, 491-505.	2.4	0
149	Topology Optimization of Viscoelastic Materials for Maximizing Damping and Natural Frequency of Macrostructures. , 2018, , 1738-1756.		0
150	Optimizing 3D Self-Supporting Topologies for Additive Manufacturing. , 2020, , .		0