

Fei Meng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1940462/publications.pdf>

Version: 2024-02-01

40
papers

1,043
citations

394421

19
h-index

414414

32
g-index

40
all docs

40
docs citations

40
times ranked

628
citing authors

#	ARTICLE	IF	CITATIONS
1	Topology Optimization of Photonic and Phononic Crystals and Metamaterials: A Review. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900017.	2.8	107
2	Evolutionary topological design for phononic band gap crystals. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 595-617.	3.5	93
3	Hybrid anisotropic plasmonic metasurfaces with multiple resonances of focused light beams. <i>Nano Letters</i> , 2021, 21, 8917-8923.	9.1	76
4	Stability analysis of anti-dip bedding rock slopes locally reinforced by rock bolts. <i>Engineering Geology</i> , 2019, 251, 228-240.	6.3	61
5	Bi-directional evolutionary optimization for photonic band gap structures. <i>Journal of Computational Physics</i> , 2015, 302, 393-404.	3.8	56
6	Topological design of phononic crystals for unidirectional acoustic transmission. <i>Journal of Sound and Vibration</i> , 2017, 410, 103-123.	3.9	51
7	Topological design of phononic band gap crystals with sixfold symmetric hexagonal lattice. <i>Computational Materials Science</i> , 2017, 139, 97-105.	3.0	42
8	Inverse design of higher-order photonic topological insulators. <i>Physical Review Research</i> , 2020, 2, .	3.6	42
9	Assessing the stability of rock slopes with respect to flexural toppling failure using a limit equilibrium model and genetic algorithm. <i>Computers and Geotechnics</i> , 2020, 124, 103619.	4.7	40
10	Topological design of 3D phononic crystals for ultra-wide omnidirectional bandgaps. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 2405-2415.	3.5	39
11	Temperature sensitivity and model of stress relaxation properties of cement and asphalt mortar. <i>Construction and Building Materials</i> , 2015, 84, 1-11.	7.2	37
12	Topology optimization of photonic crystals with exotic properties resulting from Dirac-like cones. <i>Acta Materialia</i> , 2019, 164, 377-389.	7.9	35
13	Safe Range of Retaining Pressure for Three-dimensional Face of Pressurized Tunnels based on Limit Analysis and Reliability Method. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 4645-4656.	1.9	34
14	Coding metalens with helical-structured units for acoustic focusing and splitting. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	33
15	Dual-Polarization Second-Order Photonic Topological Insulators. <i>Physical Review Applied</i> , 2021, 15, .	3.8	31
16	Inverse Design of Photonic Topological Insulators with Extra-Wide Bandgaps. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900175.	2.4	28
17	Vibration attenuation analysis of periodic underground barriers using complex band diagrams. <i>Computers and Geotechnics</i> , 2020, 128, 103821.	4.7	26
18	Achieving Large Band Gaps in 2D Symmetric and Asymmetric Photonic Crystals. <i>Journal of Lightwave Technology</i> , 2017, 35, 1670-1676.	4.6	22

#	ARTICLE	IF	CITATIONS
19	On-Demand Design of Tunable Complete Photonic Band Gaps based on Bloch Mode Analysis. Scientific Reports, 2018, 8, 14283.	3.3	21
20	Topology optimization of photonic structures for all-angle negative refraction. Finite Elements in Analysis and Design, 2016, 117-118, 46-56.	3.2	20
21	Broadband All-angle Negative Refraction by Optimized Phononic Crystals. Scientific Reports, 2017, 7, 7445.	3.3	18
22	Assessing the Stability of Rock Slopes with Respect to Block-Flexure Toppling Failure Using a Force-Transfer Model and Genetic Algorithm. Rock Mechanics and Rock Engineering, 2020, 53, 3433-3445.	5.4	18
23	Realization of multidimensional sound propagation in 3D acoustic higher-order topological insulator. Applied Physics Letters, 2020, 117, .	3.3	15
24	Inverse design of second-order photonic topological insulators in C3-symmetric lattices. Applied Mathematical Modelling, 2022, 102, 194-206.	4.2	11
25	Topology-Optimized 3D Photonic Structures with Maximal Omnidirectional Bandgaps. Advanced Theory and Simulations, 2018, 1, 1800122.	2.8	10
26	Designing photonic materials with complete band gaps by topology optimization. Smart Materials and Structures, 2019, 28, 015025.	3.5	10
27	Microstructural design for 2D photonic crystals with large polarization-independent band gaps. Materials Letters, 2017, 207, 176-178.	2.6	9
28	An ultrahigh sensitivity micro-cliff graphene wearable pressure sensor made by instant flash light exposure. Nanoscale, 2021, 13, 15380-15393.	5.6	9
29	Observation of Emergent Dirac Physics at the Surfaces of Acoustic Higher-Order Topological Insulators. Advanced Science, 2022, 9, .	11.2	9
30	Stability Analysis of Rock Slopes Subjected to Block-Flexure Toppling Failure Using Adaptive Moment Estimation Method (Adam). Rock Mechanics and Rock Engineering, 2022, 55, 3675-3686.	5.4	8
31	Soil-Pile Interaction in the Pile Vertical Vibration Based on Fictitious Soil-Pile Model. Journal of Applied Mathematics, 2014, 2014, 1-11.	0.9	7
32	Fast stability assessment of rock slopes subjected to flexural toppling failure using adaptive moment estimation (Adam) algorithm. Landslides, 2022, 19, 2149-2158.	5.4	7
33	Deformation characteristics of coarse-grained soil with various gradations. Journal of Central South University, 2014, 21, 2469-2476.	3.0	5
34	Experimental Research on Physical and Mechanical Properties of High-Speed Railway Subgrade Filler. Applied Mechanics and Materials, 0, 496-500, 2533-2537.	0.2	4
35	Ground Movement Analysis Based on Stochastic Medium Theory. Scientific World Journal, The, 2014, 2014, 1-6.	2.1	3
36	All-angle negative refraction flatlens with a broad bandwidth. Photonics and Nanostructures - Fundamentals and Applications, 2017, 27, 11-16.	2.0	3

#	ARTICLE	IF	CITATIONS
37	Study on Two-Phase Fluid-Solid Coupling Characteristics in Saturated Zone of Subgrade Considering the Effects of Fine Particles Migration. Applied Sciences (Switzerland), 2020, 10, 7539.	2.5	2
38	Analysis of Ground Movement in Pile Driving Based on Stochastic Medium Theory. Applied Mechanics and Materials, 0, 438-439, 1404-1408.	0.2	1
39	Comparison of One-Way Shearing Test between Coarse-Grained Soils and Reinforced Earth. Applied Mechanics and Materials, 0, 496-500, 2469-2473.	0.2	0
40	Application of Low-Strain Dynamic Detection to Concrete Piles. Advanced Materials Research, 2014, 912-914, 48-52.	0.3	0