

Yi Chen

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,025
citations

394421

19
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

684
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological phase transition in mechanical honeycomb lattice. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 122, 54-68.	4.8	119
2	Broadband solid cloak for underwater acoustics. <i>Physical Review B</i> , 2017, 95, .	3.2	109
3	Latticed pentamode acoustic cloak. <i>Scientific Reports</i> , 2015, 5, 15745.	3.3	106
4	Programmable elastic valley Hall insulator with tunable interface propagation routes. <i>Extreme Mechanics Letters</i> , 2019, 28, 76-80.	4.1	76
5	Mapping acoustical activity in 3D chiral mechanical metamaterials onto micropolar continuum elasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 137, 103877.	4.8	54
6	Roton-like acoustical dispersion relations in 3D metamaterials. <i>Nature Communications</i> , 2021, 12, 3278.	12.8	53
7	Micropolar continuum modelling of bi-dimensional tetrachiral lattices. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20130734.	2.1	51
8	Dirac degeneracy and elastic topological valley modes induced by local resonant states. <i>Physical Review B</i> , 2020, 101, .	3.2	49
9	Broadband and High-Transmission Metasurface for Converting Underwater Cylindrical Waves to Plane Waves. <i>Physical Review Applied</i> , 2019, 12, .	3.8	45
10	Experimental observation of roton-like dispersion relations in metamaterials. <i>Science Advances</i> , 2021, 7, eabm2189.	10.3	41
11	Design of an underwater acoustic bend by pentamode metafluid. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 1029-1034.	1.1	40
12	Micropolar modeling of planar orthotropic rectangular chiral lattices. <i>Comptes Rendus - Mecanique</i> , 2014, 342, 273-283.	2.1	33
13	Metagel with Broadband Tunable Acoustic Properties Over Airâ€™Waterâ€™Solid Ranges. <i>Advanced Functional Materials</i> , 2019, 29, 1903699.	14.9	31
14	Influences of imperfectness and inner constraints on an acoustic cloak with unideal pentamode materials. <i>Journal of Sound and Vibration</i> , 2019, 458, 62-73.	3.9	29
15	Large characteristic lengths in 3D chiral elastic metamaterials. <i>Communications Materials</i> , 2021, 2, .	6.9	27
16	Design of arbitrary shaped pentamode acoustic cloak based on quasi-symmetric mapping gradient algorithm. <i>Journal of the Acoustical Society of America</i> , 2016, 140, EL405-EL409.	1.1	23
17	Theory and Realization of Nonresonant Anisotropic Singly Polarized Solids Carrying Only Shear Waves. <i>Physical Review Applied</i> , 2019, 12, .	3.8	23
18	Isotropic Chiral Acoustic Phonons in 3D Quasicrystalline Metamaterials. <i>Physical Review Letters</i> , 2020, 124, 235502.	7.8	22

#	ARTICLE	IF	CITATIONS
19	Highly anisotropic hexagonal lattice material for low frequency water sound insulation. <i>Extreme Mechanics Letters</i> , 2020, 40, 100916.	4.1	21
20	Nonlocal interaction engineering of 2D roton-like dispersion relations in acoustic and mechanical metamaterials. <i>Communications Materials</i> , 2022, 3, .	6.9	15
21	Analytical and Experimental Investigation on Sound Transmission of Double Thin Plates with Magnetic Negative Stiffness. <i>International Journal of Applied Mechanics</i> , 2018, 10, 1850054.	2.2	11
22	Chiral triclinic metamaterial crystals supporting isotropic acoustical activity and isotropic chiral phonons. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, 20200764.	2.1	9
23	Scattering Analysis and Optimization of Spherical Acoustic Cloak with Unideal Pentamode Material. <i>Acta Mechanica Solida Sinica</i> , 2020, 33, 347-360.	1.9	8
24	Cubic metamaterial crystal supporting broadband isotropic chiral phonons. <i>Physical Review Materials</i> , 2021, 5, .	2.4	7
25	Tunable network sound absorber based on additive manufacturing. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 94-101.	1.1	7
26	Two-dimensional water acoustic waveguide based on pressure compensation method. <i>Review of Scientific Instruments</i> , 2018, 89, 024902.	1.3	6
27	Polynomial stress functions of anisotropic plane problems and their applications in hybrid finite elements. <i>Acta Mechanica</i> , 2012, 223, 493-503.	2.1	4
28	Longitudinal elastic wave control by pre-deforming semi-linear materials. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 1229-1235.	1.1	4
29	Hydrogels: Metagel with Broadband Tunable Acoustic Properties Over Air–Water–Solid Ranges (Adv.) <i>Tj ETQq</i> 1,1,0.7843,14 rgBT	1.4	2
30	Multi-focus multi-photon 3D printing of microstructured chiral mechanical metamaterials with large characteristic length. , 2021, , .		0