

Yun Jing

List of Publications by Year in descending order

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91
papers

4,339
citations

117571

34
h-index

110317

64
g-index

113
all docs

113
docs citations

113
times ranked

2961
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonreciprocal coupling in space-time modulated systems at exceptional points. <i>Physical Review B</i> , 2022, 105, .	1.1	9
2	Observation of Degenerate Zero-Energy Topological States at Disclinations in an Acoustic Lattice. <i>Physical Review Letters</i> , 2022, 128, 174301.	2.9	35
3	Twisted pillared phononic crystal plates. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	6
4	Time-Resolved Passive Cavitation Mapping Using the Transient Angular Spectrum Approach. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2361-2369.	1.7	3
5	A reconfigurable active acoustic metalens. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	72
6	Systematic Design and Experimental Demonstration of Transmission-Type Multiplexed Acoustic Metaholograms. <i>Advanced Functional Materials</i> , 2021, 31, 2101947.	7.8	43
7	mSOUND: An Open Source Toolbox for Modeling Acoustic Wave Propagation in Heterogeneous Media. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 1476-1486.	1.7	10
8	Photonic analog of bilayer graphene. <i>Physical Review B</i> , 2021, 103, .	1.1	26
9	Three-Dimensional Trampoline-like Behavior in an Ultralight Elastic Metamaterial. <i>Physical Review Applied</i> , 2021, 16, .	1.5	12
10	Vat photopolymerization of fly-like, complex micro-architectures with dissolvable supports. <i>Additive Manufacturing</i> , 2021, 47, 102321.	1.7	7
11	Observation of higher-order exceptional points in a non-local acoustic metagrating. <i>Communications Physics</i> , 2021, 4, .	2.0	19
12	Loss in acoustic metasurfaces: a blessing in disguise. <i>MRS Communications</i> , 2020, 10, 32-41.	0.8	20
13	Magic-angle bilayer phononic graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	37
14	Low-Frequency Broadband Acoustic Metasurface Absorbing Panels. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	23
15	A modified mixed domain method for modeling acoustic wave propagation in strongly heterogeneous media. <i>Journal of the Acoustical Society of America</i> , 2020, 147, 4055-4068.	0.5	7
16	A comparison study between acoustic topological states based on valley Hall and quantum spin Hall effects. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 721-728.	0.5	21
17	Routing Acoustic Waves via a Metamaterial with Extreme Anisotropy. <i>Physical Review Applied</i> , 2019, 12, .	1.5	16
18	Guiding robust valley-dependent edge states by surface acoustic waves. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	23

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19	Fabrication and experimental demonstration of a hybrid resonant acoustic gradient index metasurface at 40 kHz. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	26
20	Dynamic assessment of dual-frequency microbubble-mediated sonothrombolysis <i>in vitro</i> . <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	10
21	Extremely Asymmetrical Acoustic Metasurface Mirror at the Exceptional Point. <i>Physical Review Letters</i> , 2019, 123, 214302.	2.9	104
22	Metasurface constituted by thin composite beams to steer flexural waves in thin plates. <i>International Journal of Solids and Structures</i> , 2019, 162, 14-20.	1.3	53
23	Simulation of the Second-Harmonic Ultrasound Field in Heterogeneous Soft Tissue Using a Mixed-Domain Method. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 669-675.	1.7	3
24	Asymmetric transmission of acoustic waves in a waveguide via gradient index metamaterials. <i>Science Bulletin</i> , 2019, 64, 808-813.	4.3	36
25	Space-time phononic crystals with anomalous topological edge states. <i>Physical Review Research</i> , 2019, 1, .	1.3	18
26	Investigation of acoustic metasurfaces with constituent material properties considered. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	19
27	Numerical Modeling of Ultrasound Propagation in Weakly Heterogeneous Media Using a Mixed-Domain Method. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1258-1267.	1.7	14
28	Acoustic metacages for sound shielding with steady air flow. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	70
29	Numerical investigation of the inertial cavitation threshold under multi-frequency ultrasound. <i>Ultrasonics Sonochemistry</i> , 2018, 41, 419-426.	3.8	61
30	Three-dimensional numerical simulation and experimental investigation of boundary-driven streaming in surface acoustic wave microfluidics. <i>Lab on A Chip</i> , 2018, 18, 3645-3654.	3.1	36
31	A Modified Mixed Domain Method for Modeling Wave Propagation in Heterogeneous Media. , 2018, , .		1
32	Acoustic planar surface retroreflector. <i>Physical Review Materials</i> , 2018, 2, .	0.9	33
33	Composite honeycomb metasurface panel for broadband sound absorption. <i>Journal of the Acoustical Society of America</i> , 2018, 144, EL255-EL261.	0.5	116
34	Acoustic metasurfaces. <i>Nature Reviews Materials</i> , 2018, 3, 460-472.	23.3	539
35	Wavefront steering of elastic shear vertical waves in solids via a composite-plate-based metasurface. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	16
36	Simultaneous Observation of a Topological Edge State and Exceptional Point in an Open and Non-Hermitian Acoustic System. <i>Physical Review Letters</i> , 2018, 121, 124501.	2.9	168

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37	Transparent coupled membrane metamaterials with simultaneous microwave absorption and sound reduction. Optics Express, 2018, 26, 22916.	1.7	32
38	Observation of Self-Bending and Focused Ultrasound Beams in the Megahertz Range. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1460-1467.	1.7	11
39	Generation of multiband spoof surface acoustic waves via high-order modes. Physical Review B, 2018, 97, .	1.1	9
40	Sound insulation of multi-layer glass-fiber felts: Role of morphology. Textile Research Journal, 2017, 87, 261-269.	1.1	28
41	Microbubble mediated dual-frequency high intensity focused ultrasound thrombolysis: An <i>in vitro</i> study. Applied Physics Letters, 2017, 110, .	1.5	67
42	Ultrasound-triggered noninvasive regulation of blood glucose levels using microgels integrated with insulin nanocapsules. Nano Research, 2017, 10, 1393-1402.	5.8	74
43	Tunable Asymmetric Transmission via Lossy Acoustic Metasurfaces. Physical Review Letters, 2017, 119, 035501.	2.9	313
44	Investigation of the effective density of arbitrarily shaped plate-type acoustic metamaterials without mass attached. Wave Motion, 2017, 74, 124-133.	1.0	4
45	Observation of zone folding induced acoustic topological insulators and the role of spin-mixing defects. Physical Review B, 2017, 96, .	1.1	122
46	Ultrathin Acoustic Metasurface-Based Schroeder Diffuser. Physical Review X, 2017, 7, .	2.8	96
47	Numerical investigation of the inertial cavitation threshold under multi-frequency ultrasound. , 2017, , .		0
48	Zone folding induced topological insulators in phononic crystals. , 2017, , .		1
49	On the evaluation of effective density for plate- and membrane-type acoustic metamaterials without mass attached. Journal of the Acoustical Society of America, 2016, 140, 908-916.	0.5	14
50	Loss-induced Enhanced Transmission in Anisotropic Density-near-zero Acoustic Metamaterials. Scientific Reports, 2016, 6, 37918.	1.6	6
51	Membrane- and plate-type acoustic metamaterials. Journal of the Acoustical Society of America, 2016, 139, 3240-3250.	0.5	142
52	Asymmetric acoustic transmission through near-zero-index and gradient-index metasurfaces. Applied Physics Letters, 2016, 108, .	1.5	139
53	Acoustic properties of glass fiber assembly-filled honeycomb sandwich panels. Composites Part B: Engineering, 2016, 96, 281-286.	5.9	75
54	Acoustic Holographic Rendering with Two-dimensional Metamaterial-based Passive Phased Array. Scientific Reports, 2016, 6, 35437.	1.6	131

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55	Thrombolysis using multi-frequency high intensity focused ultrasound at MHz range: an <i>in vitro</i> study. <i>Physics in Medicine and Biology</i> , 2015, 60, 7403-7418.	1.6	49
56	A lightweight yet sound-proof honeycomb acoustic metamaterial. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	187
57	Broadband Acoustic Hyperbolic Metamaterial. <i>Physical Review Letters</i> , 2015, 115, 254301.	2.9	134
58	Modeling of wave propagation for medical ultrasound: a review. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 1979-1992.	1.7	46
59	Response to "Comment on "A lightweight yet sound-proof honeycomb acoustic metamaterial" [Appl. Phys. Lett. 107, 216101 (2015)]. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	0
60	Thrombolysis enhanced by dual-frequency high intensity focused ultrasound. , 2014, , .		0
61	Anisotropic Complementary Acoustic Metamaterial for Canceling out Aberrating Layers. <i>Physical Review X</i> , 2014, 4, .	2.8	104
62	An improved wave-vector frequency-domain method for nonlinear wave modeling. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 515-524.	1.7	11
63	Side branch-based acoustic metamaterials with a broad-band negative bulk modulus. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 1885-1891.	1.1	15
64	A wave-vector-frequency-domain method for linear/nonlinear wave modeling in heterogeneous media. , 2014, , .		0
65	Disruption of microalgal cells using high-frequency focused ultrasound. <i>Bioresource Technology</i> , 2014, 153, 315-321.	4.8	129
66	Ultrasound-Triggered Regulation of Blood Glucose Levels Using Injectable Nano-Network. <i>Advanced Healthcare Materials</i> , 2014, 3, 811-816.	3.9	81
67	Experimental verification of transient nonlinear acoustical holography. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 2533-2540.	0.5	16
68	Temperature rise in tissue ablation using multi-frequency ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 1699-1707.	1.7	34
69	Investigation on the effect of aperture sizes and receiver positions in coupled rooms. <i>Journal of the Acoustical Society of America</i> , 2013, 133, 3975-3985.	0.5	23
70	Transcranial ultrasound imaging with speed of sound-based phase correction: a numerical study. <i>Physics in Medicine and Biology</i> , 2013, 58, 6663-6681.	1.6	27
71	A diffusion equation model for investigations on acoustics in coupled-volume systems. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	0
72	On the use of an absorption layer for the angular spectrum approach (L). <i>Journal of the Acoustical Society of America</i> , 2012, 131, 999-1002.	0.5	7

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73	Time-reversal transcranial ultrasound beam focusing using a k-space method. <i>Physics in Medicine and Biology</i> , 2012, 57, 901-917.	1.6	51
74	A k-Space Method for Moderately Nonlinear Wave Propagation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 1664-1673.	1.7	33
75	Numerical study of a near-zero-index acoustic metamaterial. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2834-2837.	0.9	78
76	Verification of the westervelt equation for focused transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 1097-1101.	1.7	23
77	Evaluation of a wave-vector-frequency-domain method for nonlinear wave propagation. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 32-46.	0.5	39
78	Combining two-dimensional spatially selective RF excitation, parallel imaging, and UNFOLD for accelerated MR thermometry imaging. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 112-122.	1.9	40
79	On the use of Gegenbauer reconstructions for shock wave propagation modeling. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 1115-1124.	0.5	13
80	On the use of Gegenbauer reconstructions for shock wave propagation modeling. , 2010, , .		1
81	One-dimensional transport equation models for sound energy propagation in long spaces: Theory. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 2312-2322.	0.5	17
82	One-dimensional transport equation models for sound energy propagation in long spaces: Simulations and experiments. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 2323-2331.	0.5	16
83	Investigation of acoustically coupled enclosures using a diffusion-equation model. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 1187-1198.	0.5	44
84	Optimum design of echogenic needles for ultrasound guided nerve block. , 2008, , .		0
85	On boundary conditions for the diffusion equation in room-acoustic prediction: Theory, simulations, and experiments. <i>Journal of the Acoustical Society of America</i> , 2008, 123, 145-153.	0.5	52
86	Visualizations of sound energy across coupled rooms using a diffusion equation model. <i>Journal of the Acoustical Society of America</i> , 2008, 124, EL360-EL365.	0.5	25
87	A modified diffusion equation for room-acoustic prediction. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 3284-3287.	0.5	33
88	Frequency Shift of Thickness-Shear Vibrations of AT-Cut Quartz Resonators Due to a Liquid Layer with the Electrode Stiffness Considered. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 1290-1292.	1.7	10
89	Stress-induced frequency shifts in rotated Y-cut langasite resonators with electrodes considered. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 906-909.	1.7	5
90	Magnetization oscillation in a nanomagnet driven by a self-controlled spin-polarized current: Nonlinear stability analysis. <i>Physical Review B</i> , 2007, 76, .	1.1	8

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91	Effect of Electrodes on Force-Frequency Characteristics of Rotated Y-Cut Quartz Resonators. Japanese Journal of Applied Physics, 2006, 45, 9167-9171.	0.8	2