Xiaozhou Liu

List of Publications by Year
in descending order

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63	768	567281 15	580821 25
papers	citations	h-index	g-index

63	63	63	568
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Acoustic coding metamaterial based on non-uniform Mie resonators. Applied Physics Letters, 2022, 120, 163501.	3.3	5
2	Realizing the second harmonic acoustic focusing based on an artificial bubble array. AIP Advances, 2022, 12, 065120.	1.3	0
3	Acoustic three-terminal controller with amplitude control for nonlinear seismic metamaterials. AIP Advances, 2022, 12, 075312.	1.3	0
4	Ventilative meta-window with broadband low-frequency acoustic insulation. Journal of Applied Physics, 2021, 129, .	2.5	13
5	Acoustic radiation force on a free elastic sphere in a viscous fluid: Theory and experiments. Physics of Fluids, 2021, 33, .	4.0	11
6	Non-diffractive acoustic beams produce negative radiation force in certain regions. AIP Advances, 2021, 11, .	1.3	8
7	Three-Dimensional Soundproof Acoustic Metacage. Physical Review Letters, 2021, 127, 084301.	7.8	41
8	A panel acoustic energy harvester based on the integration of acoustic metasurface and Helmholtz resonator. Applied Physics Letters, 2021, 119, .	3.3	6
9	Acoustic radiation force on an elastic cylinder in a Gaussian beam near an impedance boundary. Wave Motion, 2020, 93, 102478.	2.0	8
10	Far-field particle manipulation scheme based on X wave. Physics of Fluids, 2020, 32, .	4.0	9
11	Acoustic radiation force and motion of a free cylinder in a viscous fluid with a boundary defined by a plane wave incident at an arbitrary angle. Journal of Applied Physics, 2020, 128, .	2.5	11
12	Location of micro-cracks in plates using time reversed nonlinear Lamb waves. Chinese Physics B, 2020, 29, 054301.	1.4	9
13	Acoustic Multifunctional Logic Gates and Amplifier Based on Passive Parity-Time Symmetry. Physical Review Applied, 2020, 13, .	3.8	15
14	Bidirectional acoustic negative refraction based on a pair of metasurfaces with both local and global PT-symmetries. Scientific Reports, 2020, 10, 10794.	3.3	13
15	Experimental study of the difference in deformation between normal and pathological, renal and bladder, cells induced by acoustic radiation force. European Biophysics Journal, 2020, 49, 155-161.	2.2	3
16	Using Helmholtz resonator arrays to improve dipole transmission efficiency in waveguide. Chinese Physics B, 2019, 28, 094301.	1.4	1
17	Improving directional radiation quality based on a gradient amplitude acoustic leaky wave antenna. New Journal of Physics, 2019, 21, 103023.	2.9	5
18	Acoustic radiation performance manipulation of metamaterials based on uneven-depth grooves. Applied Physics Express, 2019, 12, 124004.	2.4	2

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19	A method to locate spatial distribution of scattering centers from ultrasonic backscatter signal. Journal of the Acoustical Society of America, 2019, 145, 2453-2460.	1.1	0
20	Theoretical study of acoustic radiation force and torque on a pair of polymer cylindrical particles in two Airy beams fields. Physics of Fluids, 2019, 31, .	4.0	10
21	Off axis acoustic radiation force on cylindrical particle in plane traveling wave. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0
22	Ultrasonic Scattered Field Distribution of One and Two Cylindrical Solids with Phased Array Technique. Chinese Journal of Mechanical Engineering (English Edition), 2019, 32, .	3.7	2
23	Temperature rise induced by an annular focused transducer with a wide aperture angle in multi-layer tissue. Chinese Physics B, 2018, 27, 014301.	1.4	2
24	The study of wood knots using acoustic nondestructive testing methods. Ultrasonics, 2018, 88, 43-50.	3.9	12
25	Non-reciprocal wave propagation in one-dimensional nonlinear periodic structures. AIP Advances, 2018, 8, 015113.	1.3	19
26	Wavefront manipulation based on transmissive acoustic metasurface with membrane-type hybrid structure. Scientific Reports, 2018, 8, 14171.	3.3	25
27	Broadband underwater acoustic carpet cloak based on pentamode materials under normal incidence. AIP Advances, 2018, 8, .	1.3	19
28	Realizing a finite array of dipole sources with high acoustic transmission directivity at low frequency. Journal of the Acoustical Society of America, 2017, 141, 1936-1939.	1.1	5
29	Realization of acoustic wave directivity at low frequencies with a subwavelength Mie resonant structure. Applied Physics Letters, 2017, 110, .	3.3	51
30	Acoustic radiation force on a sphere in a progressive and standing zero-order quasi-Bessel-Gauss beam. Ultrasonics, 2017, 76, 1-9.	3.9	20
31	Manipulation of acoustic wavefront by gradient metasurface based on Helmholtz Resonators. Scientific Reports, 2017, 7, 10587.	3.3	58
32	Realization of manipulating acoustic surface waves radiation direction with rectangular-groove structure. AIP Advances, 2017, 7, .	1.3	10
33	Broadband manipulation of refracted wavefronts by gradient acoustic metasurface with V-shape structure. Applied Physics Letters, 2017, 111, .	3.3	28
34	Manipulating sound wave radiation by zero-index metamaterials. Proceedings of Meetings on Acoustics, 2017, , .	0.3	0
35	A nonlinear acoustic metamaterial: Realization of a backwards-traveling second-harmonic sound wave. Journal of the Acoustical Society of America, 2016, 139, 3373-3385.	1.1	8
36	Acoustic total transmission and additional modes in the metamaterials embedded with defects. AIP Advances, 2016, 6, 115109.	1.3	0

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37	A compact customizable tunable EBG filter. IEICE Electronics Express, 2016, 13, 20150990-20150990.	0.8	2
38	Study of axial acoustic radiation force on a sphere in a Gaussian quasi-standing field. Wave Motion, 2016, 62, 63-74.	2.0	24
39	A compact and customizable operation frequency filter for broadband applications. IEICE Electronics Express, 2015, 12, 20150576-20150576.	0.8	4
40	A compact configurable dual-band bandpass filter. IEICE Electronics Express, 2015, 12, 20150931-20150931.	0.8	2
41	Mimicking surface plasmons in acoustics at low frequency. Physical Review B, 2015, 92, .	3.2	25
42	Axial acoustic radiation force on a sphere in Gaussian field. AIP Conference Proceedings, 2015, , .	0.4	3
43	Sound beam manipulation based on temperature gradients. AIP Conference Proceedings, 2015, , .	0.4	0
44	Acoustic transmission enhancement through a soft interlayer with a reactance boundary. Journal of the Acoustical Society of America, 2015, 138, 782-790.	1.1	2
45	Interactions of collinear acoustic waves propagating along pure mode directions of crystals. Journal of Applied Physics, 2014, 115, .	2.5	3
46	Simulation of multi-cracks in solids using nonlinear elastic wave spectroscopy with a time-reversal process. Wave Motion, 2014, 51, 146-156.	2.0	6
47	Effective impedance boundary optimization and its contribution to dipole radiation and radiation pattern control. Nature Communications, 2014, 5, 3188.	12.8	86
48	Elastic anomalies near phase transitions of lead-free (Na,Bi)TiO3 and (Ba,Zr)TiO3 ferroelectric ceramics. Science Bulletin, 2014, 59, 2287-2291.	1.7	0
49	Acoustic radiation force on a double-layer microsphere by a Gaussian focused beam. Journal of Applied Physics, 2014, 116, .	2.5	21
50	Calculation of acoustical radiation force on microsphere by spherically-focused source. Ultrasonics, 2014, 54, 1977-1983.	3.9	6
51	A non common-node chaotic Colpitts oscillator with negative resistance enhancement. IEICE Electronics Express, 2014, 11, 20140902-20140902.	0.8	4
52	A study of the acoustical radiation force considering attenuation. Science China: Physics, Mechanics and Astronomy, 2013, 56, 1237-1245.	5.1	3
53	The study on the nonclassical nonlinear effect of concretes with different mix rate. , 2013, , .		0
54	Nonlinear nonclassical acoustic method for detecting the location of cracks. Journal of Applied Physics, 2012, 112, 054906.	2.5	9

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55	Theoretical and Experimental Study on Temperature Elevation behind Ribs Caused by Weakly Focused Ultrasound. Ultrasound in Medicine and Biology, 2010, 36, 1704-1712.	1.5	15
56	Acoustic microstreaming around an isolated encapsulated microbubble. Journal of the Acoustical Society of America, 2009, 125, 1319-1330.	1.1	44
57	Noninvasive Estimation of Temperature Elevations in Biological Tissues Using Acoustic Nonlinearity Parameter Imaging. Ultrasound in Medicine and Biology, 2008, 34, 414-424.	1.5	25
58	Theoretical and experimental study of nonclassical nonlinear acoustic phenomena in concrete. AIP Conference Proceedings, 2008, , .	0.4	2
59	Experimental study of acoustical memory in lithium niobate. Physical Review E, 2008, 78, 016602.	2.1	3
60	The transmission of finite amplitude sound beam in multi-layered biological media. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 362, 50-56.	2.1	8
61	Nonlinear absorption in biological tissue for high intensity focused ultrasound. Ultrasonics, 2006, 44, e27-e30.	3.9	34
62	Relationship between the temperature and the acoustic nonlinearity parameter in biological tissues. Science Bulletin, 2004, 49, 2360-2363.	1.7	6
63	Nonlinear effects of the finite amplitude ultrasound wave in biological tissues. Science Bulletin, 2000, 45, 508-512.	1.7	2