

Li Fan

List of Publications by Year in descending order

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36
times ranked

404
citing authors

#	ARTICLE	IF	CITATIONS
1	An acoustic metamaterial composed of multi-layer membrane-coated perforated plates for low-frequency sound insulation. Applied Physics Letters, 2015, 106, .	1.5	56
2	A tunable acoustic metamaterial with double-negativity driven by electromagnets. Scientific Reports, 2016, 6, 30254.	1.6	43
3	Influence of surface conductivity on sensitivity of acoustic wave gas sensors based on multilayered structures. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 451-460.	1.7	24
4	Nonlinear effects in a metamaterial with double negativity. Applied Physics Letters, 2014, 105, .	1.5	24
5	Theoretical investigation of acoustic wave devices based on different piezoelectric films deposited on silicon carbide. Journal of Applied Physics, 2013, 114, .	1.1	17
6	Nonlinear acoustic fields in acoustic metamaterial based on a cylindrical pipe with periodically arranged side holes. Journal of the Acoustical Society of America, 2013, 133, 3846-3852.	0.5	17
7	An open-structure sound insulator against low-frequency and wide-band acoustic waves. Applied Physics Express, 2015, 8, 107301.	1.1	16
8	Coupling between thermoacoustic resonance pipes and piezoelectric loudspeakers studied by equivalent circuit method. Journal of the Acoustical Society of America, 2006, 120, 1381-1387.	0.5	14
9	A room-temperature ultrasonic hydrogen sensor based on a sensitive layer of reduced graphene oxide. Scientific Reports, 2021, 11, 2404.	1.6	12
10	Tunable sound transmission at an impedance-mismatched fluidic interface assisted by a composite waveguide. Scientific Reports, 2016, 6, 34688.	1.6	11
11	Tunable acoustic filters assisted by coupling vibrations of a flexible Helmholtz resonator and a waveguide. Applied Physics Letters, 2017, 110, .	1.5	10
12	Low-frequency and multiple-bands sound insulation using hollow boxes with membrane-type faces. Applied Physics Letters, 2018, 112, .	1.5	10
13	Calculation of electromechanical coupling coefficient of Lamb waves in multilayered plates. Ultrasonics, 2006, 44, e849-e852.	2.1	9
14	Research on pass band with negative phase velocity in tubular acoustic metamaterial. Journal of Applied Physics, 2012, 112, 053523.	1.1	9
15	Simulation of SAW Humidity Sensors Based on (112Å^0) ZnO/R-Sapphire Structures. Sensors, 2016, 16, 1112.	2.1	9
16	Simultaneous realization of slow and fast acoustic waves using a fractal structure of Koch curve. Scientific Reports, 2018, 8, 1481.	1.6	9
17	Nonlinear effects in thermoacoustic refrigerators driven by voltage-excited loudspeakers. Journal of Applied Physics, 2008, 104, .	1.1	8
18	A robust actively-tunable perfect sound absorber. Applied Physics Letters, 2019, 115, .	1.5	8

#	ARTICLE	IF	CITATIONS
19	Theoretical investigation of conductivity sensitivities of SiC-based bio-chemical acoustic wave sensors. Journal of Applied Physics, 2014, 115, 064506.	1.1	7
20	Sound regulation of coupled Helmholtz and Fabry-Pérot resonances in labyrinth cavity structures. Ultrasonics, 2019, 95, 45-51.	2.1	6
21	Influences of nonlinearities of loudspeakers on performances of thermoacoustic refrigerators. Applied Physics Letters, 2007, 91, .	1.5	5
22	Anomalous subharmonics excited by intensive ultrasonic pulses with a single frequency. Applied Physics Letters, 2008, 92, 221902.	1.5	5
23	Performance optimization of high-order Lamb wave sensors based on silicon carbide substrates. Ultrasonics, 2016, 65, 296-303.	2.1	5
24	Performance optimization of plate-mode sensors with bi-layered structure. Ultrasonics, 2006, 44, e917-e921.	2.1	4
25	Study on sensitivities of Love-wave immunosensors based on SiO ₂ /36°YX-LiTaO ₃ and ZnO/36°YX-LiTaO ₃ structures. Acoustical Physics, 2013, 59, 528-532.	0.2	4
26	An acoustic dual filter in the audio frequencies with two local resonant systems. Applied Physics Letters, 2014, 105, 053501.	1.5	4
27	Nonlinear acoustic impedance of thermoacoustic stack. Journal of Applied Physics, 2012, 112, .	1.1	3
28	Investigations of coupling acoustic matching in multilayer acoustic structures. Applied Physics Letters, 2014, 105, 023505.	1.5	2
29	Optimizations of composited acoustic sensors with a microfluidic channel. Journal of Applied Physics, 2014, 115, 133502.	1.1	2
30	Acoustic-electromagnetic slow waves in a periodical defective piezoelectric slab. Chinese Physics B, 2017, 26, 074302.	0.7	2
31	Laser-enhanced thermal effect of moderate intensity focused ultrasound on bio-tissues. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	2.0	2
32	Investigations of Rayleigh wave hydrogen sensors. , 2008, , .		0
33	Study of Love-mode immunosensors based on ZnO/36°YX-LiTaO ₃ structures. , 2008, , .		0
34	Experimental study on Love-wave sensors with SiO ₂ /LiTaO ₃ structures. , 2008, , .		0
35	Characteristics of thickness-shear modes excited by two-layer piezoelectric film in acoustic sensors. Journal of Applied Physics, 2012, 111, 033504.	1.1	0
36	Suppression of harmonics in a model of thermoacoustic refrigerator based on an acoustic metamaterial. Journal of the Acoustical Society of America, 2015, 138, EL435-EL440.	0.5	0