

Xinlong Wang

List of Publications by Year in descending order

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38
papers

663
citations

516710

16
h-index

580821

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g-index

38
all docs

38
docs citations

38
times ranked

426
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of Multisoliton Interactions in Parametrically Resonant Systems. <i>Physical Review Letters</i> , 1997, 78, 2744-2747.	7.8	49
2	Acoustical mechanism for the extraordinary sound transmission through subwavelength apertures. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	42
3	Ship recognition via its radiated sound: The fractal based approaches. <i>Journal of the Acoustical Society of America</i> , 2002, 112, 172-177.	1.1	40
4	Dynamical behavior of parametrically excited solitary waves in Faraday's water trough experiment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 219, 74-78.	2.1	39
5	Observations of collision behavior of parametrically excited standing solitons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 192, 1-4.	2.1	33
6	Ship classification using nonlinear features of radiated sound: An approach based on empirical mode decomposition. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 206-214.	1.1	33
7	Local Integral Mean-Based Sifting for Empirical Mode Decomposition. <i>IEEE Signal Processing Letters</i> , 2009, 16, 841-844.	3.6	32
8	Oscillatory patterns composed of the parametrically excited surface-wave solitons. <i>Physical Review E</i> , 1998, 57, 2405-2410.	2.1	31
9	Theory of resonant sound transmission through small apertures on periodically perforated slabs. <i>Journal of Applied Physics</i> , 2010, 108, 064903.	2.5	31
10	EMD-based extraction of modulated cavitation noise. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 2124-2136.	8.0	30
11	Resonance-induced band gaps in a periodic waveguide. <i>Journal of Sound and Vibration</i> , 2008, 313, 830-840.	3.9	28
12	Wide forbidden band induced by the interference of different transverse acoustic standing-wave modes. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	27
13	Adaptive extraction of modulation for cavitation noise. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 3106-3113.	1.1	20
14	Underwater Acoustic Stealth by a Broadband 2-Bit Coding Metasurface. <i>Physical Review Applied</i> , 2021, 15, .	3.8	20
15	Extraction of time varying information from noisy signals: An approach based on the empirical mode decomposition. <i>Mechanical Systems and Signal Processing</i> , 2011, 25, 812-820.	8.0	19
16	Non-Bragg resonance of surface water waves in a trough with periodic walls. <i>Physical Review E</i> , 2008, 78, 016311.	2.1	17
17	Interference-induced angle-independent acoustical transparency. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	17
18	Enhancement of Chinese speech based on nonlinear dynamics. <i>Signal Processing</i> , 2007, 87, 2431-2445.	3.7	16

#	ARTICLE	IF	CITATIONS
19	Resonant emission of solitons from impurity-induced localized waves in nonlinear lattices. <i>Physical Review E</i> , 2011, 83, 026605.	2.1	15
20	Acoustical "coherence" induced by local resonance in Bragg bandgaps. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	15
21	Interactions and motions of double-solitons with opposite polarity in a parametrically driven system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 227, 55-60.	2.1	13
22	Sound transmission within the Bragg gap via the high-order modes in a waveguide with periodically corrugated walls. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	10
23	Achromatic reflected metalens for highly directional and long-distance acoustic probing. <i>New Journal of Physics</i> , 2020, 22, 023006.	2.9	10
24	Parametrically excited nonlinear waves and their localizations. <i>Physica D: Nonlinear Phenomena</i> , 2001, 154, 337-359.	2.8	9
25	Detection of Dynamic Structures of Speech Fundamental Frequency in Tonal Languages. <i>IEEE Signal Processing Letters</i> , 2010, 17, 843-846.	3.6	8
26	Vessel radiated noise recognition with fractal features. <i>Electronics Letters</i> , 2000, 36, 923.	1.0	7
27	On solitary waves. Part 2 A unified perturbation theory for higher-order waves. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2005, 21, 515-530.	3.4	7
28	Spatiotemporal bifurcations of a parametrically excited solitary wave. <i>Physical Review E</i> , 2007, 75, 036602.	2.1	6
29	Extraordinary sound tunneling through a barred horn via subwavelength hole resonance. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	6
30	Optimal and efficient generation of sine-Gordon breathers. <i>Physical Review E</i> , 2021, 104, 014209.	2.1	6
31	Boundary effect on a parametrically excited soliton. <i>Journal of the Acoustical Society of America</i> , 1998, 104, 715-721.	1.1	5
32	Internal dynamics of the parametrically excited bound state of double solitary-waves. <i>Physica D: Nonlinear Phenomena</i> , 1999, 127, 13-32.	2.8	5
33	Multiscale analysis of heart beat interval increment series and its clinical significance. <i>Science Bulletin</i> , 2009, 54, 3784-3789.	1.7	5
34	Broadband and wide-angle blazed acoustic gratings using multiple coupled Helmholtz resonators. <i>Applied Physics Express</i> , 2017, 10, 097201.	2.4	4
35	Nature of the parametrically excited bound soliton state. <i>Physical Review E</i> , 1998, 58, 7899-7902.	2.1	3
36	Integral convergence of the higher-order theory for solitary waves. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 350, 44-50.	2.1	2

#	ARTICLE	IF	CITATIONS
37	Experimental demonstration of emission of solitons from a resonant localized wave. Physical Review E, 2020, 102, 052201.	2.1	2
38	Mechanism of wave resonance based on excitation of evanescent waves in locally expanded waveguides. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, , 127817.	2.1	1