

Alejandro Cebrecos

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

433
citations

840776

11
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

517
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of sound in chirped sonic crystals. Applied Physics Letters, 2013, 102, .	3.3	70
2	Extraordinary absorption of sound in porous lamella-crystals. Scientific Reports, 2015, 4, 4674.	3.3	50
3	Three-dimensional multiresonant lossy sonic crystal for broadband acoustic attenuation: Application to train noise reduction. Applied Acoustics, 2019, 146, 1-8.	3.3	44
4	Acoustic Bessel-like beam formation by an axisymmetric grating. Europhysics Letters, 2014, 106, 24005.	2.0	36
5	Acoustic radiation pressure for nonreciprocal transmission and switch effects. Nature Communications, 2019, 10, 3292.	12.8	35
6	Wave focusing using symmetry matching in axisymmetric acoustic gradient index lenses. Applied Physics Letters, 2013, 103, .	3.3	33
7	Enhancement of sound by soft reflections in exponentially chirped crystals. AIP Advances, 2014, 4, .	1.3	28
8	Sound Absorption and Diffusion by 2D Arrays of Helmholtz Resonators. Applied Sciences (Switzerland), 2020, 10, 1690.	2.5	26
9	Broadband quasi perfect absorption using chirped multi-layer porous materials. AIP Advances, 2016, 6, 121605.	1.3	24
10	Formation of collimated sound beams by three-dimensional sonic crystals. Journal of Applied Physics, 2012, 111, .	2.5	17
11	Broadband reduction of the specular reflections by using sonic crystals: A proof of concept for noise mitigation in aerospace applications. Aerospace Science and Technology, 2018, 73, 300-308.	4.8	15
12	Enhanced transmission band in periodic media with loss modulation. Applied Physics Letters, 2014, 105, .	3.3	10
13	Beamforming for large-area scan and improved SNR in array-based photoacoustic microscopy. Ultrasonics, 2021, 111, 106317.	3.9	9
14	The finite-element time-domain method for elastic band-structure calculations. Computer Physics Communications, 2019, 238, 77-87.	7.5	8
15	Angular Band Gaps in Sonic Crystals: Evanescent Waves and Spatial Complex Dispersion Relation. Journal of Vibration and Acoustics, Transactions of the ASME, 2013, 135, .	1.6	6
16	Acoustically penetrable sonic crystals based on fluid-like scatterers. Journal Physics D: Applied Physics, 2015, 48, 025501.	2.8	6
17	Asymmetric propagation using enhanced self-demodulation in a chirped phononic crystal. AIP Advances, 2016, 6, .	1.3	6
18	Characterization of Viscoelastic Media Combining Ultrasound and Magnetic-Force Induced Vibrations on an Embedded Soft Magnetic Sphere. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 3540-3548.	3.0	6

#	ARTICLE	IF	CITATIONS
19	Complex Dispersion Relation Recovery from 2D Periodic Resonant Systems of Finite Size. Applied Sciences (Switzerland), 2019, 9, 478.	2.5	3
20	Formulación matricial en Acústica: el método de la matriz de transferencia. Modelling in Science Education and Learning, 2019, 12, 153.	0.2	1
21	Focusing Properties of Axisymmetric Acoustic Metamaterials Made of Toroidal Scatterers. , 2012, , .		0
22	Magnetic force induced vibration of a ferromagnetic sphere for viscoelastic media characterization. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0