

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	Beamforming for large-area scan and improved SNR in array-based photoacoustic microscopy. <i>Ultrasonics</i> , 2021, 111, 106317.	3.9	9
2	Characterization of Viscoelastic Media Combining Ultrasound and Magnetic-Force Induced Vibrations on an Embedded Soft Magnetic Sphere. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 3540-3548.	3.0	6
3	Sound Absorption and Diffusion by 2D Arrays of Helmholtz Resonators. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1690.	2.5	26
4	Acoustic radiation pressure for nonreciprocal transmission and switch effects. <i>Nature Communications</i> , 2019, 10, 3292.	12.8	35
5	Complex Dispersion Relation Recovery from 2D Periodic Resonant Systems of Finite Size. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 478.	2.5	3
6	Magnetic force induced vibration of a ferromagnetic sphere for viscoelastic media characterization. <i>Proceedings of Meetings on Acoustics</i> , 2019, , .	0.3	0
7	Three-dimensional multiresonant lossy sonic crystal for broadband acoustic attenuation: Application to train noise reduction. <i>Applied Acoustics</i> , 2019, 146, 1-8.	3.3	44
8	The finite-element time-domain method for elastic band-structure calculations. <i>Computer Physics Communications</i> , 2019, 238, 77-87.	7.5	8
9	Formulación matricial en Acústica: el método de la matriz de transferencia. <i>Modelling in Science Education and Learning</i> , 2019, 12, 153.	0.2	1
10	Broadband reduction of the specular reflections by using sonic crystals: A proof of concept for noise mitigation in aerospace applications. <i>Aerospace Science and Technology</i> , 2018, 73, 300-308.	4.8	15
11	Broadband quasi perfect absorption using chirped multi-layer porous materials. <i>AIP Advances</i> , 2016, 6, 121605.	1.3	24
12	Asymmetric propagation using enhanced self-demodulation in a chirped phononic crystal. <i>AIP Advances</i> , 2016, 6, .	1.3	6
13	Acoustically penetrable sonic crystals based on fluid-like scatterers. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 025501.	2.8	6
14	Extraordinary absorption of sound in porous lamella-crystals. <i>Scientific Reports</i> , 2015, 4, 4674.	3.3	50
15	Acoustic Bessel-like beam formation by an axisymmetric grating. <i>Europhysics Letters</i> , 2014, 106, 24005.	2.0	36
16	Enhancement of sound by soft reflections in exponentially chirped crystals. <i>AIP Advances</i> , 2014, 4, .	1.3	28
17	Enhanced transmission band in periodic media with loss modulation. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	10
18	Angular Band Gaps in Sonic Crystals: Evanescent Waves and Spatial Complex Dispersion Relation. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013, 135, .	1.6	6

#	ARTICLE	IF	CITATIONS
19	Enhancement of sound in chirped sonic crystals. Applied Physics Letters, 2013, 102, .	3.3	70
20	Wave focusing using symmetry matching in axisymmetric acoustic gradient index lenses. Applied Physics Letters, 2013, 103, .	3.3	33
21	Formation of collimated sound beams by three-dimensional sonic crystals. Journal of Applied Physics, 2012, 111, .	2.5	17
22	Focusing Properties of Axisymmetric Acoustic Metamaterials Made of Toroidal Scatterers. , 2012, , .		0