

Georgios Theocharis

List of Publications by Year in descending order

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64
papers

3,474
citations

186265

28
h-index

133252

59
g-index

64
all docs

64
docs citations

64
times ranked

1993
citing authors

#	ARTICLE	IF	CITATIONS
1	Bifurcation-based acoustic switching and rectification. <i>Nature Materials</i> , 2011, 10, 665-668.	27.5	496
2	Experimental Observation of Oscillating and Interacting Matter Wave Dark Solitons. <i>Physical Review Letters</i> , 2008, 101, 130401.	7.8	252
3	Feshbach Resonance Management for Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2003, 90, 230401.	7.8	246
4	Perfect and broadband acoustic absorption by critically coupled sub-wavelength resonators. <i>Scientific Reports</i> , 2016, 6, 19519.	3.3	228
5	Discrete Breathers in One-Dimensional Diatomic Granular Crystals. <i>Physical Review Letters</i> , 2010, 104, 244302.	7.8	224
6	Ring Dark Solitons and Vortex Necklaces in Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2003, 90, 120403.	7.8	173
7	Use of complex frequency plane to design broadband and sub-wavelength absorbers. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 3395-3403.	1.1	154
8	Control of acoustic absorption in one-dimensional scattering by resonant scatterers. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	147
9	Multiple atomic dark solitons in cigar-shaped Bose-Einstein condensates. <i>Physical Review A</i> , 2010, 81, .	2.5	112
10	Limits of slow sound propagation and transparency in lossy, locally resonant periodic structures. <i>New Journal of Physics</i> , 2014, 16, 093017.	2.9	87
11	Localized breathing modes in granular crystals with defects. <i>Physical Review E</i> , 2009, 80, 066601.	2.1	85
12	Tunable vibrational band gaps in one-dimensional diatomic granular crystals with three-particle unit cells. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	82
13	Highly Nonlinear Wave Propagation in Elastic Woodpile Periodic Structures. <i>Physical Review Letters</i> , 2015, 114, 118002.	7.8	82
14	Non-Hermitian acoustic metamaterials: Role of exceptional points in sound absorption. <i>Physical Review B</i> , 2017, 95, .	3.2	80
15	Intrinsic energy localization through discrete gap breathers in one-dimensional diatomic granular crystals. <i>Physical Review E</i> , 2010, 82, 056604.	2.1	77
16	Nonlinear resonances and energy transfer in finite granular chains. <i>Physical Review E</i> , 2015, 91, 023208.	2.1	54
17	Observation of Edge Waves in a Two-Dimensional Su-Schrieffer-Heeger Acoustic Network. <i>Physical Review Applied</i> , 2019, 12, .	3.8	51
18	Tunable magneto-granular phononic crystals. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	50

#	ARTICLE	IF	CITATIONS
19	Stability of topological edge states under strong nonlinear effects. <i>Physical Review B</i> , 2021, 103, .	3.2	37
20	Wave propagation in a strongly nonlinear locally resonant granular crystal. <i>Physica D: Nonlinear Phenomena</i> , 2018, 365, 27-41.	2.8	35
21	Nonlinear Periodic Phononic Structures and Granular Crystals. <i>Springer Series in Solid-state Sciences</i> , 2013, , 217-251.	0.3	34
22	Vortices in a Bose-Einstein condensate confined by an optical lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 3467-3476.	1.5	33
23	Self-induced topological transition in phononic crystals by nonlinearity management. <i>Physical Review B</i> , 2019, 100, .	3.2	33
24	Nonlinear Hysteretic Torsional Waves. <i>Physical Review Letters</i> , 2015, 115, 054301.	7.8	32
25	Defect modes in one-dimensional granular crystals. <i>Physical Review E</i> , 2012, 85, 037601.	2.1	31
26	Quasitopological rotational waves in mechanical granular graphene. <i>Physical Review B</i> , 2018, 97, .	3.2	31
27	Dark breathers in granular crystals. <i>Physical Review E</i> , 2013, 87, 042202.	2.1	30
28	Perfect Absorption in Mirror-Symmetric Acoustic Metascreens. <i>Physical Review Applied</i> , 2020, 14, .	3.8	29
29	Coherent perfect absorption induced by the nonlinearity of a Helmholtz resonator. <i>Journal of the Acoustical Society of America</i> , 2016, 140, EL94-EL100.	1.1	28
30	Hysteresis loops and multi-stability: From periodic orbits to chaotic dynamics (and back) in diatomic granular crystals. <i>Europhysics Letters</i> , 2013, 101, 44003.	2.0	27
31	Energy transport in one-dimensional disordered granular solids. <i>Physical Review E</i> , 2016, 93, 022903.	2.1	25
32	Acoustic Su-Schrieffer-Heeger lattice: Direct mapping of acoustic waveguides to the Su-Schrieffer-Heeger model. <i>Physical Review B</i> , 2021, 103, .	3.2	24
33	Dark soliton dynamics in spatially inhomogeneous media: Application to Bose-Einstein condensates. <i>Mathematics and Computers in Simulation</i> , 2005, 69, 537-552.	4.4	22
34	Robustness of topological corner modes against disorder with application to acoustic networks. <i>Physical Review B</i> , 2020, 102, .	3.2	22
35	Acoustic solitons in waveguides with Helmholtz resonators: Transmission line approach. <i>Physical Review E</i> , 2015, 91, 023204.	2.1	20
36	Acoustic graphene network loaded with Helmholtz resonators: a first-principle modeling, Dirac cones, edge and interface waves. <i>New Journal of Physics</i> , 2020, 22, 013029.	2.9	19

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37	Guidance of matter waves through Y-junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 317, 513-522.	2.1	18
38	Invariant currents in lossy acoustic waveguides with complete local symmetry. <i>Physical Review B</i> , 2015, 92, .	3.2	18
39	Transversalâ€“rotational and zero group velocity modes in tunable magneto-granular phononic crystals. <i>Extreme Mechanics Letters</i> , 2017, 12, 65-70.	4.1	18
40	Fast, robust, and amplified transfer of topological edge modes on a time-varying mechanical chain. <i>Physical Review B</i> , 2020, 102, .	3.2	17
41	Dark solitons in cigar-shaped Bose-Einstein condensates in double-well potentials. <i>Physical Review A</i> , 2010, 81, .	2.5	16
42	Disorder-induced topological phase transition in a one-dimensional mechanical system. <i>Physical Review Research</i> , 2021, 3, .	3.6	16
43	Linear and Nonlinear Elastic Waves in Magnetogranular Chains. <i>Physical Review Applied</i> , 2020, 13, .	3.8	15
44	Design of acoustic metamaterials made of Helmholtz resonators for perfect absorption by using the complex frequency plane. <i>Comptes Rendus Physique</i> , 2020, 21, 713-749.	0.9	15
45	Generation of dark solitons in oscillating Boseâ€“Einstein condensates. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 337, 441-448.	2.1	14
46	Discrete breathers at the interface between a diatomic and a monoatomic granular chain. <i>Physical Review E</i> , 2010, 82, 061303.	2.1	14
47	Bright and gap solitons in membrane-type acoustic metamaterials. <i>Physical Review E</i> , 2017, 96, 022214.	2.1	14
48	Zero-frequency and slow elastic modes in phononic monolayer granular membranes. <i>Ultrasonics</i> , 2016, 69, 201-214.	3.9	13
49	Subwavelength Interferometric Control of Absorption in Three-port Acoustic Network. <i>Scientific Reports</i> , 2018, 8, 12328.	3.3	11
50	Dark Solitons in Acoustic Transmission Line Metamaterials. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1186.	2.5	11
51	Second-Harmonic Generation in Membrane-Type Nonlinear Acoustic Metamaterials. <i>Crystals</i> , 2016, 6, 86.	2.2	10
52	Topological two-dimensional Suâ€“Schriefferâ€“Heeger analog acoustic networks: Total reflection at corners and corner induced modes. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	10
53	Granular graphene: Direct observation of edge states on zigzag and armchair boundaries. <i>Physical Review B</i> , 2019, 99, .	3.2	7
54	Dynamics of interacting dark soliton stripes. <i>Physical Review A</i> , 2019, 100, .	2.5	6

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55	Multi-functional resonant acoustic wave router. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 235101.	2.8	6
56	High-amplitude sound propagation in acoustic transmission-line metamaterial. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	6
57	Second-Harmonic Generation in Acoustic Waveguides Loaded with an Array of Side Holes. <i>Acta Acustica United With Acustica</i> , 2018, 104, 235-242.	0.8	5
58	Wave propagation in a strongly disordered one-dimensional phononic lattice supporting rotational waves. <i>Physical Review B</i> , 2020, 102, .	3.2	5
59	Tilted double Dirac cone and anisotropic quantum-spin-Hall topological insulator in mechanical granular graphene. <i>New Journal of Physics</i> , 2020, 22, 103012.	2.9	5
60	Wave-packet spreading in disordered soft architected structures. <i>Chaos</i> , 2022, 32, 053116.	2.5	4
61	Testing a bead-rod contact with a nonlinear resonance method. <i>Journal of Sound and Vibration</i> , 2019, 441, 84-95.	3.9	3
62	Nonlinear topological edge states: From dynamic delocalization to thermalization. <i>Physical Review B</i> , 2022, 105, .	3.2	3
63	Direct observation of edge modes in zigzag granular chains. <i>Journal of Sound and Vibration</i> , 2022, 526, 116761.	3.9	2
64	Subwavelength Su-Schrieffer-Heeger topological modes in acoustic waveguides. <i>Journal of the Acoustical Society of America</i> , 2022, 151, 3626-3632.	1.1	0