

Keith Runge

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

472
citations

759233

12
h-index

713466

21
g-index

41
all docs

41
docs citations

41
times ranked

413
citing authors

#	ARTICLE	IF	CITATIONS
1	Bulk elastic waves with unidirectional backscattering-immune topological states in a time-dependent superlattice. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	119
2	Torsional topology and fermion-like behavior of elastic waves in phononic structures. <i>Comptes Rendus - Mecanique</i> , 2015, 343, 700-711.	2.1	31
3	One-Dimensional Mass-Spring Chains Supporting Elastic Waves with Non-Conventional Topology. <i>Crystals</i> , 2016, 6, 44.	2.2	28
4	Sound Topology, Duality, Coherence and Wave-Mixing. <i>Springer Series in Solid-state Sciences</i> , 2017, , .	0.3	26
5	Phase-controlling phononic crystal. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	23
6	Rotational modes in a phononic crystal with fermion-like behavior. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	22
7	Structure of $ZnCl_2$ Melt. Part I: Raman Spectroscopy Analysis Driven by Ab Initio Methods. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4174-4181.	2.6	20
8	Geometric phase and topology of elastic oscillations and vibrations in model systems: Harmonic oscillator and superlattice. <i>AIP Advances</i> , 2016, 6, .	1.3	17
9	The sound of Bell states. <i>Communications Physics</i> , 2019, 2, .	5.3	16
10	Sono-electrochemical recovery of metal ions from their aqueous solutions. <i>Journal of Hazardous Materials</i> , 2016, 318, 379-387.	12.4	14
11	Tailoring phonon band structures with broken symmetry by shaping spatiotemporal modulations of stiffness in a one-dimensional elastic waveguide. <i>Physical Review B</i> , 2017, 96, .	3.2	14
12	Elastic waves with correlated directional and orbital angular momentum degrees of freedom. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 135301.	1.5	12
13	Experimental demonstration of coherent superpositions in an ultrasonic pseudospin. <i>Scientific Reports</i> , 2019, 9, 14156.	3.3	12
14	Spectral analysis of amplitudes and phases of elastic waves: Application to topological elasticity. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 748-766.	1.1	11
15	Experimental demonstration of elastic analogues of nonseparable qutrits. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	11
16	Phase-control in two-dimensional phononic crystals. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	10
17	Experimental classical entanglement in a 16 acoustic qubit-analogue. <i>Scientific Reports</i> , 2021, 11, 24248.	3.3	9
18	Geometric phase invariance in spatiotemporal modulated elastic system. <i>Journal of Sound and Vibration</i> , 2019, 459, 114843.	3.9	8

#	ARTICLE	IF	CITATIONS
19	Two-temperature warm dense hydrogen as a test of quantum protons driven by orbital-free density functional theory electronic forces. <i>Matter and Radiation at Extremes</i> , 2020, 5, .	3.9	8
20	Exponentially Complex $\hat{\rho}$ -Classically Entangled States in Arrays of One-Dimensional Nonlinear Elastic Waveguides. <i>Materials</i> , 2019, 12, 3553.	2.9	7
21	Phonon-magnon resonant processes with relevance to acoustic spin pumping. <i>Physical Review B</i> , 2014, 90, .	3.2	6
22	An atomic scale characterization of coupled grain boundary motion in silicon bicrystals. <i>Philosophical Magazine</i> , 2015, 95, 4118-4129.	1.6	6
23	Asymmetric energy transport in defected boron nitride nanoribbons: Implications for thermal rectification. <i>AIP Advances</i> , 2011, 1, .	1.3	5
24	Non-separable states in a bipartite elastic system. <i>AIP Advances</i> , 2017, 7, .	1.3	5
25	Directional Elastic Pseudospin and Nonseparability of Directional and Spatial Degrees of Freedom in Parallel Arrays of Coupled Waveguides. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3202.	2.5	5
26	Exponentially complex nonseparable states in planar arrays of nonlinearly coupled one-dimensional elastic waveguides. <i>Journal of Physics Communications</i> , 2020, 4, 085018.	1.2	5
27	Effect of Ligand Adsorption on the Electronic Properties of the PbS(100) Surface. <i>Langmuir</i> , 2020, 36, 13312-13319.	3.5	3
28	Navigating the Hilbert space of elastic bell states in driven coupled waveguides. <i>Wave Motion</i> , 2022, , 102966.	2.0	3
29	Energetics of substituted polyhedral oligomeric silsesquioxanes: a DFT study. <i>MRS Communications</i> , 2015, 5, 519-524.	1.8	2
30	Giant frequency down-conversion of the dancing acoustic bubble. <i>Scientific Reports</i> , 2016, 6, 37385.	3.3	2
31	Finite elements computational modeling of coupled elastic waveguides. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	2
32	Navigating the Hilbert space of nonseparable elastic states in arrays of periodically coupled one-dimensional waveguides. <i>AIP Advances</i> , 2020, 10, 095105.	1.3	2
33	Implementation of Deutsch and Deutsch's Jozsa-like algorithms involving classical entanglement of elastic bits. <i>Wave Motion</i> , 2022, 113, 102977.	2.0	2
34	Effect of sound on gap-junction-based intercellular signaling: Calcium waves under acoustic irradiation. <i>Physical Review E</i> , 2015, 92, 052711.	2.1	1
35	Evidence for hidden order in a nonlinear model elastic system. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 10LT01.	1.8	1
36	Biochemical basis of Quantum-like neuronal dynamics. <i>Brain Multiphysics</i> , 2020, 1, 100017.	2.3	1

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37	Topological properties of coupled one-dimensional chains of elastic rotators. Journal of Applied Physics, 2021, 129, 084903.	2.5	1
38	Observation of Discrete Floquet Time Crystals in Periodically Driven Acoustic Bubbles. Crystals, 2022, 12, 399.	2.2	1
39	The Role of Aluminum Substitution on the Stability of Substituted Polyhedral Oligomeric Silsesquioxanes. Zeitschrift Fur Physikalische Chemie, 2016, 230, 1005-1014.	2.8	0
40	Revealing topological attributes of stiff plates by Dirac factorization of their 2D elastic wave equation. Applied Physics Letters, 2022, 120, 081701.	3.3	0