

Yuriy A Kosevich

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

1,509
citations

20
h-index

35
g-index

87
ext. papers

1,654
ext. citations

3.1
avg, IF

4.75
L-index

#	Paper	IF	Citations
83	Two-path phonon interference resonance induces a stop band in a silicon crystal matrix with a multilayer array of embedded nanoparticles. <i>Physical Review B</i> , 2020 , 102,	3.3	5
82	Phase Dynamics of Intrinsic Localized Modes in Two Weakly Coupled Nonlinear Chains and Correspondence Between Periodic Tunneling of Classical and Quantum Objects. <i>Advanced Structured Materials</i> , 2019 , 39-52	0.6	
81	Modeling of One-Side Surface Modifications of Graphene. <i>Materials</i> , 2019 , 12,	3.5	1
80	Kinks in a Lattice of Repelling Particles. <i>Understanding Complex Systems</i> , 2018 , 261-282	0.4	3
79	Phase dynamics of discrete breathers periodically tunneling in weakly coupled nonlinear chains. <i>Low Temperature Physics</i> , 2018 , 44, 671-677	0.7	
78	Nonlinear waves in a model for silicate layers. <i>Chaos</i> , 2018 , 28, 083119	3.3	11
77	Charged ultradiscrete supersonic kinks and discrete breathers in nonlinear molecular chains with realistic interatomic potentials and electron-phonon interactions. <i>Journal of Physics: Conference Series</i> , 2017 , 833, 012021	0.3	6
76	Phonon-interference resonance effects by nanoparticles embedded in a matrix. <i>Physical Review B</i> , 2017 , 96,	3.3	18
75	Confining interparticle potential makes both heat transport and energy diffusion anomalous in one-dimensional phononic systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 3480-3484	2.3	4
74	Blocking Phonon Transport by Structural Resonances in Alloy-Based Nanophononic Metamaterials Leads to Ultralow Thermal Conductivity. <i>Physical Review Letters</i> , 2016 , 117, 025503	7.4	114
73	Functionalization mediates heat transport in graphene nanoflakes. <i>Nature Communications</i> , 2016 , 7, 11281	17.4	104
72	Non-linear mechanical analogue of quantum Rabi oscillations in coherent output coupler for atoms in Bose-Einstein condensate. <i>Journal of Micromechanics and Molecular Physics</i> , 2016 , 01, 1650007	1.4	2
71	Transmission of quasiparticle excitations through interfaces between two media (Review Article). <i>Low Temperature Physics</i> , 2016 , 42, 609-616	0.7	1
70	Effects of phonon interference through long range interatomic bonds on thermal interface conductance. <i>Low Temperature Physics</i> , 2016 , 42, 711-716	0.7	8
69	Long-range interatomic forces can minimize heat transfer: From slowdown of longitudinal optical phonons to thermal conductivity minimum. <i>Physical Review B</i> , 2016 , 94,	3.3	4
68	Ultradiscrete kinks with supersonic speed in a layered crystal with realistic potentials. <i>Physical Review E</i> , 2015 , 91, 022912	2.4	36
67	Phonon Interference and Energy Transport in Nonlinear Lattices with Resonance Defects. <i>Springer Series in Materials Science</i> , 2015 , 247-263	0.9	3

66	A Supersonic Crowdion in Mica. <i>Springer Series in Materials Science</i> , 2015 , 69-96	0.9	11
65	Ultracompact interference phonon nanocapacitor for storage and lasing of coherent terahertz lattice waves. <i>Physical Review Letters</i> , 2015 , 114, 145501	7.4	37
64	Thermal conductivity of molecular chains with asymmetric potentials of pair interactions. <i>Physical Review E</i> , 2014 , 89, 032102	2.4	62
63	Classical to quantum transition of heat transfer between two silica clusters. <i>Physical Review Letters</i> , 2014 , 112, 114301	7.4	33
62	Tunable thermal conductivity in silicon twinning superlattice nanowires. <i>Physical Review B</i> , 2014 , 90,	3.3	40
61	Substrate-induced cross-plane thermal propagative modes in few-layer graphene. <i>Physical Review B</i> , 2014 , 89,	3.3	13
60	Phonon interference and thermal conductance reduction in atomic-scale metamaterials. <i>Physical Review B</i> , 2014 , 89,	3.3	42
59	Supersonic Kinks in Coulomb Lattices. <i>Advances in Dynamics, Patterns, Cognition</i> , 2014 , 317-331	0.7	2
58	Bloch oscillations of an acoustic field in a layered structure. <i>Acoustical Physics</i> , 2013 , 59, 137-147	1.1	13
57	Effects of quantum statistics of phonons on the thermal conductivity of silicon and germanium nanoribbons. <i>Nanoscale Research Letters</i> , 2013 , 8, 7	5	17
56	Magnon localization and Bloch oscillations in finite Heisenberg spin chains in an inhomogeneous magnetic field. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 246002	1.8	5
55	Semiquantum molecular dynamics simulation of thermal properties and heat transport in low-dimensional nanostructures. <i>Physical Review B</i> , 2012 , 86,	3.3	31
54	Tunable coupled surface acoustic cavities. <i>Applied Physics Letters</i> , 2012 , 100, 261904	3.4	5
53	Towards a new type of energy trap: Classical analog of quantum Landau-Zener tunneling. <i>International Journal of Non-Linear Mechanics</i> , 2011 , 46, 247-252	2.8	19
52	Fresnel integrals and irreversible energy transfer in an oscillatory system with time-dependent parameters. <i>Physical Review E</i> , 2011 , 83, 026602	2.4	24
51	Bloch oscillations of spin waves in a nonuniform magnetic field. <i>Low Temperature Physics</i> , 2010 , 36, 722-727		5
50	Surface acoustic BLOCH oscillations, the Wannier-Stark ladder, and Landau-Zener tunneling in a solid. <i>Physical Review Letters</i> , 2010 , 104, 165502	7.4	33
49	Reduction of phonon thermal conductivity in nanowires and nanoribbons with dynamically rough surfaces and edges. <i>Europhysics Letters</i> , 2009 , 88, 14002	1.6	15

48	Energy transfer in weakly coupled nonlinear oscillator chains: Transition from a wandering breather to nonlinear self-trapping. <i>Journal of Sound and Vibration</i> , 2009 , 322, 524-531	3.9	10
47	Flexural rigidity of layers and its manifestation in the vibrational characteristics of strongly anisotropic layered crystals. Characteristic frequencies and stability conditions in quasi-two-dimensional systems. <i>Low Temperature Physics</i> , 2009 , 35, 158-165	0.7	15
46	Resonance absorption, reflection, transmission of phonons and heat transfer through interface between two solids. <i>Low Temperature Physics</i> , 2008 , 34, 575-582	0.7	13
45	Nanoplasmonics. <i>Physics-Uspekhi</i> , 2008 , 51,	2.8	9
44	Wandering breathers and self-trapping in weakly coupled nonlinear chains: classical counterpart of macroscopic tunneling quantum dynamics. <i>Physical Review E</i> , 2008 , 77, 046603	2.4	29
43	Energy transfer in coupled nonlinear phononic waveguides: transition from wandering breather to nonlinear self-trapping. <i>Journal of Physics: Conference Series</i> , 2007 , 92, 012093	0.3	11
42	Ultrafast Fiske effect in semiconductor superlattices induced by the coupling of electron Bloch oscillations to longitudinal optical phonons and coherent plasmons. <i>Journal of Physics: Conference Series</i> , 2007 , 92, 012053	0.3	
41	Acoustic analogue of electronic BLOCH oscillations and resonant Zener tunneling in ultrasonic superlattices. <i>Physical Review Letters</i> , 2007 , 98, 134301	7.4	102
40	Fano-like resonance phenomena by flexural shell modes in sound transmission through two-dimensional periodic arrays of thin-walled hollow cylinders. <i>Physical Review B</i> , 2006 , 74,	3.3	35
39	Wannier-Stark ladder in the linear absorption of a random system with scale-free disorder. <i>Physical Review B</i> , 2006 , 73,	3.3	13
38	Ultrafast Fiske effect in semiconductor superlattices. <i>Physical Review Letters</i> , 2006 , 96, 137403	7.4	20
37	Generation of a DC Fiske current by coupling of Bloch and in-plane cyclotron oscillations in a semiconductor superlattice. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 2405-2409	1.3	2
36	Electro-optic investigation of the Coherent Hall Effect in semiconductor superlattices. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 1175-1178	1.3	6
35	Supersonic discrete kink-solitons and sinusoidal patterns with magic wave number in anharmonic lattices. <i>Europhysics Letters</i> , 2004 , 66, 21-27	1.6	39
34	Reevaluation of the crossover from elastic to capillary surface waves on soft gels. <i>Physical Review Letters</i> , 2003 , 90, 059601; author reply 059602	7.4	5
33	Temporal Fourier spectra of stationary and slowly moving breathers in Fermi-Pasta-Ulam anharmonic lattice. <i>Physica D: Nonlinear Phenomena</i> , 2002 , 170, 1-12	3.3	19
32	Semiclassical balance equations in semiconductor superlattices in strong crossed fields. <i>Physical Review Letters</i> , 2002 , 88, 229701; author reply 229702	7.4	7
31	Coexistence of two elastic surface modes enhanced by viscous losses. <i>Europhysics Letters</i> , 2002 , 60, 241-247	11	

30	Effect of phonon damping on the resonance reflection of a transverse sound wave from a planar defect in a crystal. <i>Journal of Experimental and Theoretical Physics</i> , 2000 , 90, 974-978	1	4
29	Self-induced shapiro effect in semiconductor superlattices. <i>Physical Review Letters</i> , 2000 , 85, 4763-6	7.4	18
28	Modulational instability and energy localization in anharmonic lattices at finite energy density. <i>Physical Review B</i> , 2000 , 61, 299-307	3.3	57
27	Surface acoustic waves and magnetotransport in an embedded modulated two-dimensional electron gas. <i>Physical Review B</i> , 2000 , 61, 16708-16719	3.3	4
26	Dissipative interaction and anomalous surface absorption of bulk phonons at a two-dimensional defect in a solid. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999 , 251, 378-386	2.3	11
25	Kosevich Replies:. <i>Physical Review Letters</i> , 1997 , 79, 4716-4716	7.4	2
24	Kinetics and aging in atomic layer epitaxy ZnS:Mn ac thin-film electroluminescent devices. <i>Journal of Applied Physics</i> , 1997 , 82, 5241-5246	2.5	3
23	Capillary phenomena and macroscopic dynamics of complex two-dimensional defects in crystals. <i>Progress in Surface Science</i> , 1997 , 55, 1-57	6.6	43
22	Vibrations localized near surfaces and interfaces in nontraditional crystals. <i>Progress in Surface Science</i> , 1997 , 55, 59-111	6.6	13
21	Giant double-resonant optical rotation and total polarization conversion in gyrotropic and anisotropic two-dimensional systems. <i>Solid State Communications</i> , 1997 , 104, 321-326	1.6	12
20	Fluctuation subharmonic and multiharmonic phonon transmission and Kapitza conductance between solids with very different vibrational spectra. <i>European Physical Journal D</i> , 1996 , 46, 2721-2722		
19	Fluctuation subharmonic and multiharmonic phonon transmission and Kapitza conductance between crystals with very different vibrational spectra. <i>Physical Review B</i> , 1995 , 52, 1017-1024	3.3	38
18	Nonlinear envelope-function equation and strongly localized vibrational modes in anharmonic lattices. <i>Physical Review B</i> , 1993 , 47, 3138-3152	3.3	43
17	Nonlinear sinusoidal waves and their superposition in anharmonic lattices. <i>Physical Review Letters</i> , 1993 , 71, 2058-2061	7.4	60
16	New soliton equation and exotic localized modes in anharmonic lattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993 , 173, 257-262	2.3	18
15	Localized superconductivity induced by an array of steps at a non-coherent twin boundary. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 1555-1558	1.8	1
14	Spontaneous surface polarization at the liquid crystal-substrate interface. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992 , 170, 41-44	2.3	3
13	Van der Waals coupled surface waves in nonpiezoelectric crystals and thin films. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991 , 155, 295-298	2.3	8

12	Nonlinear shear surface waves at the interfaces and planar defects of crystals. <i>International Journal of Engineering Science</i> , 1991 , 29, 327-330	5.7	3
11	Collective oscillations of twin boundaries in high-temperature superconductors as an acoustic analogue of two-dimensional plasmons. <i>Physical Review B</i> , 1991 , 43, 326-332	3.3	8
10	Nonlinear shear surface waves at interfaces and planar defects of crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990 , 146, 529-534	2.3	12
9	Application of surface acoustic waves to direct measurement of the parameters of superfluid helium thin films. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 5047-5052	1.8	4
8	Magnetoplasma oscillations of the wave-guided type in semiconductor superlattices. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 6279-6286	1.8	1
7	Low frequency acoustic oscillations of twin superstructures in ferroelastics near the phase transition. <i>Ferroelectrics</i> , 1990 , 112, 155-164	0.6	1
6	Propagation of acoustic waves in bounded ferroelastics near phase transitions. <i>Ferroelectrics</i> , 1990 , 110, 3-8	0.6	1
5	Long wavelength surface oscillations of a crystal with an adsorbed monolayer. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989 , 135, 298-302	2.3	17
4	On the possibility of measuring the tensor of surface stress in thin crystalline plates. <i>Solid State Communications</i> , 1989 , 70, 541-543	1.6	14
3	Magnetoplasma oscillations of a two-dimensional electron layer in a bounded system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988 , 127, 52-56	2.3	11
2	Capillary phenomena and elastic waves localized near a plane crystal defect. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987 , 122, 178-182	2.3	14
1	On the dispersion relation of crystallization-melting waves on the quantum crystal surface. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1981 , 108, 1195-1196		