

Yuriy A Kosevich

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7763308/yuriy-a-kosevich-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
82	Functionalization mediates heat transport in graphene nanoflakes. <i>Nature Communications</i> , 2016 , 7, 11281	17.4	104
81	Acoustic analogue of electronic BLOCH oscillations and resonant Zener tunneling in ultrasonic superlattices. <i>Physical Review Letters</i> , 2007 , 98, 134301	7.4	102
80	Thermal conductivity of molecular chains with asymmetric potentials of pair interactions. <i>Physical Review E</i> , 2014 , 89, 032102	2.4	62
79	Nonlinear sinusoidal waves and their superposition in anharmonic lattices. <i>Physical Review Letters</i> , 1993 , 71, 2058-2061	7.4	60
78	Modulational instability and energy localization in anharmonic lattices at finite energy density. <i>Physical Review B</i> , 2000 , 61, 299-307	3.3	57
77	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
76	Nonlinear envelope-function equation and strongly localized vibrational modes in anharmonic lattices. <i>Physical Review B</i> , 1993 , 47, 3138-3152	3.3	43
75	Phonon interference and thermal conductance reduction in atomic-scale metamaterials. <i>Physical Review B</i> , 2014 , 89,	3.3	42
74	Tunable thermal conductivity in silicon twinning superlattice nanowires. <i>Physical Review B</i> , 2014 , 90,	3.3	40
73	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
72	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
71	Ultracompact interference phonon nanocapacitor for storage and lasing of coherent terahertz lattice waves. <i>Physical Review Letters</i> , 2015 , 114, 145501	7.4	37
70	Ultradiscrete kinks with supersonic speed in a layered crystal with realistic potentials. <i>Physical Review E</i> , 2015 , 91, 022912	2.4	36
69	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
68	Classical to quantum transition of heat transfer between two silica clusters. <i>Physical Review Letters</i> , 2014 , 112, 114301	7.4	33
67	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

66	Semiquantum molecular dynamics simulation of thermal properties and heat transport in low-dimensional nanostructures. <i>Physical Review B</i> , 2012 , 86,	3.3	31
65	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
64	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
63	Ultrafast Fiske effect in semiconductor superlattices. <i>Physical Review Letters</i> , 2006 , 96, 137403	7.4	20
62	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
61	Temporal Fourier spectra of stationary and slowly moving breathers in FermiPastaUlam anharmonic lattice. <i>Physica D: Nonlinear Phenomena</i> , 2002 , 170, 1-12	3.3	19
60	Phonon-interference resonance effects by nanoparticles embedded in a matrix. <i>Physical Review B</i> , 2017 , 96,	3.3	18
59	Self-induced shapiro effect in semiconductor superlattices. <i>Physical Review Letters</i> , 2000 , 85, 4763-6	7.4	18
58	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
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	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
55	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
54	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
53	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
52	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
51	Bloch oscillations of an acoustic field in a layered structure. <i>Acoustical Physics</i> , 2013 , 59, 137-147	1.1	13
50	Substrate-induced cross-plane thermal propagative modes in few-layer graphene. <i>Physical Review B</i> , 2014 , 89,	3.3	13
49	Vibrations localized near surfaces and interfaces in nontraditional crystals. <i>Progress in Surface Science</i> , 1997 , 55, 59-111	6.6	13

48	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
47	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
46	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
45	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
44	A Supersonic Crowdion in Mica. <i>Springer Series in Materials Science</i> , 2015 , 69-96	0.9	11
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	Coexistence of two elastic surface modes enhanced by viscous losses. <i>Europhysics Letters</i> , 2002 , 60, 241-247		11
41	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
40	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
39	Nonlinear waves in a model for silicate layers. <i>Chaos</i> , 2018 , 28, 083119	3.3	11
38	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
37	Nanoplasmonics. <i>Physics-Uspokhi</i> , 2008 , 51,	2.8	9
36	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
35	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
34	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
33	Semiclassical balance equations in semiconductor superlattices in strong crossed fields. <i>Physical Review Letters</i> , 2002 , 88, 229701; author reply 229702	7.4	7
32	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
31	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

30	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
29	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
28	Bloch oscillations of spin waves in a nonuniform magnetic field. <i>Low Temperature Physics</i> , 2010 , 36, 722-727	2.7	5
27	Tunable coupled surface acoustic cavities. <i>Applied Physics Letters</i> , 2012 , 100, 261904	3.4	5
26	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
25	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
24	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
23	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
22	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
21	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
20	Phonon Interference and Energy Transport in Nonlinear Lattices with Resonance Defects. <i>Springer Series in Materials Science</i> , 2015 , 247-263	0.9	3
19	Kinks in a Lattice of Repelling Particles. <i>Understanding Complex Systems</i> , 2018 , 261-282	0.4	3
18	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
17	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
16	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
15	Kosevich Replies:. <i>Physical Review Letters</i> , 1997 , 79, 4716-4716	7.4	2
14	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
13	Supersonic Kinks in Coulomb Lattices. <i>Advances in Dynamics, Patterns, Cognition</i> , 2014 , 317-331	0.7	2

12	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
11	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
10	Magnetoplasma oscillations of the wave-guided type in semiconductor superlattices. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 6279-6286	1.8	1
9	Low frequency acoustic oscillations of twin superstructures in ferroelastics near the phase transition. <i>Ferroelectrics</i> , 1990 , 112, 155-164	0.6	1
8	Propagation of acoustic waves in bounded ferroelastics near phase transitions. <i>Ferroelectrics</i> , 1990 , 110, 3-8	0.6	1
7	Transmission of quasiparticle excitations through interfaces between two media (Review Article). <i>Low Temperature Physics</i> , 2016 , 42, 609-616	0.7	1
6	Modeling of One-Side Surface Modifications of Graphene. <i>Materials</i> , 2019 , 12,	3.5	1
5	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	
4	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		
3	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		
2	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	
1	Phase dynamics of discrete breathers periodically tunneling in weakly coupled nonlinear chains. <i>Low Temperature Physics</i> , 2018 , 44, 671-677	0.7	