

Andrey Akimov

List of Publications by Year in descending order

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184
papers

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times ranked

2362
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent Magnetization Precession in Ferromagnetic (Ga,Mn)As Induced by Picosecond Acoustic Pulses. <i>Physical Review Letters</i> , 2010, 105, 117204.	2.9	170
2	Ultrafast Optical Switching in Three-Dimensional Photonic Crystals. <i>Physical Review Letters</i> , 2003, 91, 213903.	2.9	156
3	Coherent Terahertz Sound Amplification and Spectral Line Narrowing in a Stark Ladder Superlattice. <i>Physical Review Letters</i> , 2010, 104, 085501.	2.9	121
4	Hypersonic Modulation of Light in Three-Dimensional Photonic and Phononic Band-Gap Materials. <i>Physical Review Letters</i> , 2008, 101, 033902.	2.9	98
5	Laser mode feeding by shaking quantum dots in a planar microcavity. <i>Nature Photonics</i> , 2012, 6, 30-34.	15.6	74
6	Excitation of spin waves in ferromagnetic (Ga,Mn)As layers by picosecond strain pulses. <i>Physical Review B</i> , 2012, 85, .	1.1	65
7	Ultrafast Band-Gap Shift Induced by a Strain Pulse in Semiconductor Heterostructures. <i>Physical Review Letters</i> , 2006, 97, 037401.	2.9	62
8	Ultrafast stop band kinetics in a three-dimensional opal-VO ₂ photonic crystal controlled by a photoinduced semiconductor-metal phase transition. <i>Physical Review B</i> , 2007, 75, .	1.1	60
9	Resonant driving of magnetization precession in a ferromagnetic layer by coherent monochromatic phonons. <i>Physical Review B</i> , 2015, 92, .	1.1	55
10	Picosecond inverse magnetostriction in galfeol thin films. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	52
11	Coherent Acoustic Phonons in Colloidal Semiconductor Nanocrystal Superlattices. <i>ACS Nano</i> , 2016, 10, 1163-1169.	7.3	52
12	Magnon polaron formed by selectively coupled coherent magnon and phonon modes of a surface patterned ferromagnet. <i>Physical Review B</i> , 2020, 102, .	1.1	47
13	Coherent Interactions of Terahertz Strain Solitons and Electronic Two-Level Systems in Photoexcited Ruby. <i>Physical Review Letters</i> , 2004, 92, 035503.	2.9	45
14	Energy relaxation by hot electrons in n-GaN epilayers. <i>Journal of Applied Physics</i> , 2001, 89, 973-979.	1.1	43
15	Chirping of an Optical Transition by an Ultrafast Acoustic Soliton Train in a Semiconductor Quantum Well. <i>Physical Review Letters</i> , 2007, 99, 057402.	2.9	43
16	Subpicosecond shifting of the photonic band gap in a three-dimensional photonic crystal. <i>Applied Physics Letters</i> , 2005, 86, 041114.	1.5	41
17	Dynamics of a vertical cavity quantum cascade phonon laser structure. <i>Nature Communications</i> , 2013, 4, 2184.	5.8	40
18	Ultrafast changes of magnetic anisotropy driven by laser-generated coherent and noncoherent phonons in metallic films. <i>Physical Review B</i> , 2016, 93, .	1.1	38

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19	Lasing from active optomechanical resonators. <i>Nature Communications</i> , 2014, 5, 4038.	5.8	37
20	Dynamics of Si-H Vibrations in an Amorphous Environment. <i>Physical Review Letters</i> , 2000, 84, 1236-1239.	2.9	36
21	Nonequilibrium phonons in amorphous silicon studied by pulsed Raman spectroscopy. <i>Physical Review B</i> , 1993, 47, 13910-13913.	1.1	35
22	Ultrafast control of light emission from a quantum-well semiconductor microcavity using picosecond strain pulses. <i>Physical Review B</i> , 2008, 78, .	1.1	35
23	Picosecond strain pulses generated by a supersonically expanding electron-hole plasma in GaAs. <i>Physical Review B</i> , 2012, 86, .	1.1	35
24	Magnetization precession induced by quasitransverse picosecond strain pulses in (311) ferromagnetic (Ga,Mn)As. <i>Physical Review B</i> , 2013, 87, .	1.1	35
25	Coherent elastic waves in a one-dimensional polymer hypersonic crystal. <i>Applied Physics Letters</i> , 2010, 97, 073106.	1.5	33
26	Subterahertz Acoustical Pumping of Electronic Charge in a Resonant Tunneling Device. <i>Physical Review Letters</i> , 2012, 108, 226601.	2.9	33
27	Spin-lattice relaxation in semimagnetic CdMnTe/CdMgTe quantum wells. <i>Physical Review B</i> , 2000, 62, R10641-R10644.	1.1	32
28	Coherent acoustic phonons in van der Waals nanolayers and heterostructures. <i>Physical Review B</i> , 2018, 98, .	1.1	31
29	Optical bandpass switching by modulating a microcavity using ultrafast acoustics. <i>Physical Review B</i> , 2010, 81, .	1.1	29
30	Ultrafast Strain-Induced Current in a GaAs Schottky Diode. <i>Physical Review Letters</i> , 2011, 106, 066602.	2.9	29
31	Molecular beam epitaxy as a method for the growth of freestanding zinc-blende (cubic) GaN layers and substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C3B1-C3B6.	0.6	28
32	High-speed modulation of a terahertz quantum cascade laser by coherent acoustic phonon pulses. <i>Nature Communications</i> , 2020, 11, 835.	5.8	26
33	Generation of a localized microwave magnetic field by coherent phonons in a ferromagnetic nanograting. <i>Physical Review B</i> , 2018, 97, .	1.1	25
34	High-Frequency Elastic Coupling at the Interface of van der Waals Nanolayers Imaged by Picosecond Ultrasonics. <i>ACS Nano</i> , 2019, 13, 11530-11537.	7.3	24
35	Acceleration of the spin-lattice relaxation in diluted magnetic quantum wells in the presence of a two-dimensional electron gas. <i>Physical Review B</i> , 2001, 64, .	1.1	23
36	Terahertz polariton sidebands generated by ultrafast strain pulses in an optical semiconductor microcavity. <i>Physical Review B</i> , 2009, 80, .	1.1	23

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37	Filtering of Elastic Waves by Opal-Based Hypersonic Crystal. Nano Letters, 2010, 10, 1319-1323.	4.5	23
38	Picosecond Control of Quantum Dot Laser Emission by Coherent Phonons. Physical Review Letters, 2017, 118, 133901.	2.9	23
39	Large non-thermal contribution to picosecond strain pulse generation using the photo-induced phase transition in VO ₂ . Nature Communications, 2020, 11, 1690.	5.8	23
40	Molecular beam epitaxy of crystalline and amorphous GaN layers with high As content. Journal of Crystal Growth, 2009, 311, 3417-3422.	0.7	22
41	Localization of the Si-CH stretch vibration in amorphous silicon. Applied Physics Letters, 1999, 75, 2945-2947.	1.5	21
42	Photocarrier-induced spin heating and spin-lattice relaxation in diluted magnetic Stranski-Krastanov quantum dots. Physical Review B, 2005, 72, .	1.1	20
43	Coherent hypersonic closed-pipe organ like modes in supported polymer films. Applied Physics Letters, 2011, 99, 021912.	1.5	20
44	Heating of the spin system by nonequilibrium phonons in semimagnetic (Cd,Mn,Mg)Te quantum wells. Physical Review B, 1999, 60, 5609-5616.	1.1	19
45	Multiple transfer of angular momentum quanta from a spin-polarized hole to magnetic ions in Zn _{1-x} Mn _x Se/Zn _{1-y} Be _y Se quantum wells. Physical Review B, 2006, 73, .	1.1	19
46	Modulation of a surface plasmon-polariton resonance by subterahertz diffracted coherent phonons. Physical Review B, 2012, 86, .	1.1	19
47	Spin-lattice relaxation in semimagnetic CdMnTe/CdMgZnTe quantum wells with a two-dimensional hole gas tuned by optical excitation. Solid State Communications, 2001, 120, 17-20.	0.9	18
48	Dynamics of vibrations in a mixed amorphous-nanocrystalline Si system. Physical Review B, 2001, 64, .	1.1	15
49	Acoustic phonon-assisted tunneling in GaAs/AlAs superlattices. Physical Review B, 2002, 66, .	1.1	15
50	The QLA and QTA strain Picosecond opto-acoustic interferometry and polarimetry in high-index GaAs. Optics Express, 2013, 21, 16473.	1.7	15
51	Nonequilibrium phonon dynamics in amorphous silicon. Journal of Non-Crystalline Solids, 1993, 164-166, 923-925.	1.5	14
52	Semiconductor charge transport driven by a picosecond strain pulse. Applied Physics Letters, 2008, 92, 232104.	1.5	14
53	Hybrid structures of magnetic semiconductors and plasmonic crystals: a novel concept for magneto-optical devices [Invited]. Journal of the Optical Society of America B: Optical Physics, 2012, 29, A103.	0.9	14
54	Low fraction of hexagonal inclusions in thick and bulk cubic GaN layers. Applied Surface Science, 2014, 317, 1010-1014.	3.1	14

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55	Nanomechanical probing of the layer/substrate interface of an exfoliated InSe sheet on sapphire. Scientific Reports, 2016, 6, 26970.	1.6	14
56	Optical Excitation of Single- and Multimode Magnetization Precession in Fe/Ga Nanolayers. Physical Review Applied, 2019, 11, .	1.5	14
57	Elasto-optical properties of zinc-blende (cubic) GaN measured by picosecond acoustics. Journal Physics D: Applied Physics, 2009, 42, 115412.	1.3	13
58	Luminescence detection of nonequilibrium phonons in CdTe/Cd _{0.6} Mn _{0.4} Tesemimagnetic quantum wells. Physical Review B, 1997, 56, 12100-12103.	1.1	12
59	Spin control in heteromagnetic nanostructures. Applied Physics Letters, 2005, 86, 162104.	1.5	12
60	Coherent terahertz acoustic vibrations in polar and semipolar gallium nitride-based superlattices. Applied Physics Letters, 2009, 94, 011909.	1.5	12
61	Ultrafast Insulator-Metal Transition in VO ₂ Nanostructures Assisted by Picosecond Strain Pulses. Physical Review Applied, 2019, 11, .	1.5	12
62	Phonon heating of two-dimensional exciton gases in GaAs/AlGaAs quantum wells. Annalen Der Physik, 1995, 507, 127-135.	0.9	11
63	Interaction of phonons with 2D exciton gas. Physica B: Condensed Matter, 1996, 219-220, 9-12.	1.3	11
64	Ultrafast switching in Si-embedded opals. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 410-413.	1.3	11
65	Picosecond strain pulses probed by the photocurrent in semiconductor devices with quantum wells. Physical Review B, 2011, 83, .	1.1	11
66	Impact of nanomechanical resonances on lasing from electrically pumped quantum dot micropillars. Applied Physics Letters, 2015, 106, .	1.5	11
67	Review of microwave electro-phononics in semiconductor nanostructures. Semiconductor Science and Technology, 2017, 32, 053003.	1.0	11
68	Nondestructive Picosecond Ultrasonic Probing of Intralayer and van der Waals Interlayer Bonding in In_2Se_3 . Advanced Functional Materials, 2021, 31, 2106206.	7.8	11
69	Optical studies of high-frequency nonequilibrium phonons in noncrystalline solids. Journal of Luminescence, 1992, 53, 7-14.	1.5	10
70	Studies of Phonon-Assisted Tunnelling in a δ -Doped Double Barrier Resonant Tunnelling Device. Physica Status Solidi (B): Basic Research, 1997, 204, 431-434.	0.7	10
71	Phonon generation and decay in hydrogenated amorphous silicon. Physical Review B, 2000, 62, 8072-8081.	1.1	10
72	Spin and energy transfer between magnetic ions and free carriers in diluted-magnetic semiconductor heterostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 989-992.	0.8	10

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73	Plasmonic effects and visible light diffraction in three-dimensional opal-metal photonic crystals. Applied Physics Letters, 2007, 90, 171108.	1.5	10
74	Photoluminescence of magnesium and silicon doped cubic GaN. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 385-388.	0.8	10
75	Picosecond acoustics in semiconductor optoelectronic nanostructures. Ultrasonics, 2015, 56, 122-128.	2.1	10
76	The effect of dynamical compressive and shear strain on magnetic anisotropy in a low symmetry ferromagnetic film. Physica Scripta, 2017, 92, 054006.	1.2	10
77	Photoelastic properties of zinc-blende $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{Al} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{x} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{N} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ in the UV: Picosecond ultrasonic studies. Physical Review Materials, 2018, 2, .	0.9	10
78	Far infrared and phonon emission from a hot two-dimensional electron gas in a silicon mosfet at 4K.. Physica B: Condensed Matter, 1991, 169, 563-564.	1.3	9
79	Phonon emission from the first and second subbands of a two-dimensional electron gas in silicon detected by exciton luminescence. Physical Review B, 1992, 45, 11387-11390.	1.1	9
80	Stimulated phonon emission in superlattices. Physica B: Condensed Matter, 1999, 263-264, 537-539.	1.3	9
81	Acoustic Phonon Emission by Optically Excited Carriers in the InAs/GaAs Quantum Dot System. Physica Status Solidi (B): Basic Research, 2001, 224, 659-663.	0.7	9
82	Wurtzite $\text{Al}_x\text{Ga}_{1-x}\text{N}$ bulk crystals grown by molecular beam epitaxy. Journal of Crystal Growth, 2011, 322, 23-26.	0.7	9
83	Carrier localization and related photoluminescence in cubic AlGaIn epilayers. Journal of Applied Physics, 2011, 110, 063517.	1.1	9
84	A weakly coupled semiconductor superlattice as a harmonic hypersonic-electrical transducer. New Journal of Physics, 2015, 17, 083064.	1.2	9
85	Coherent phonon optics in a chip with an electrically controlled active device. Scientific Reports, 2015, 5, 8279.	1.6	9
86	Far-infrared emission from two-dimensional electron and hole gases in GaAs/(AlGa)As heterojunctions. Semiconductor Science and Technology, 1994, 9, 831-834.	1.0	8
87	Effect of nonequilibrium acoustic phonons on exciton states in interrupted grown GaAs/Al _{0.33} Ga _{0.67} As quantum wells. Physica B: Condensed Matter, 1996, 219-220, 59-61.	1.3	8
88	Energy Relaxation by Warm Two-Dimensional Electrons in a GaN/AlGaIn Heterostructure. Physica Status Solidi (B): Basic Research, 2001, 228, 607-611.	0.7	8
89	Optically induced Bragg switching in opal-VO ₂ photonic crystals. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 429-430.	1.3	8
90	Dynamics of localized Mn spins in diluted-magnetic-semiconductor nanostructures with quantum dots. Physica Status Solidi (B): Basic Research, 2004, 241, 361-369.	0.7	8

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91	Optical and photocurrent spectroscopy with picosecond strain pulses. Journal of Luminescence, 2011, 131, 404-408.	1.5	8
92	Fast switching of magnetization in the ferromagnetic semiconductor (Ga,Mn)(As,P) using nonequilibrium phonon pulses. Applied Physics Letters, 2011, 99, .	1.5	8
93	Heterodyne mixing of millimetre electromagnetic waves and sub-THz sound in a semiconductor device. Scientific Reports, 2016, 6, 30396.	1.6	8
94	Giant Photoelasticity of Polaritons for Detection of Coherent Phonons in a Superlattice with Quantum Sensitivity. Physical Review Letters, 2022, 128, 157401.	2.9	8
95	The Lifetimes of High-Frequency Phonons in Amorphous Silicon: Evidence for Phonon Localization. Solid State Phenomena, 1995, 44-46, 289-298.	0.3	7
96	Energy distributions of 2D excitons in the presence of nonequilibrium phonons. Journal of Physics Condensed Matter, 1996, 8, 2163-2171.	0.7	7
97	Transport of 29cm ⁻¹ phonons in hydrogenated amorphous silicon. Physical Review B, 1996, 54, 12151-12161.	1.1	7
98	Transport of superradiant excitons in GaAs single quantum wells. Physical Review B, 1997, 56, 15282-15288.	1.1	7
99	Enhancement of luminescence intensity induced by 1.06 μm excitation in InAs/GaAs quantum dots. Semiconductor Science and Technology, 1999, 14, 1132-1135.	1.0	7
100	Ultrafast acoustical gating of the photocurrent in a tunneling diode incorporating a quantum well. Physical Review B, 2009, 80, .	1.1	7
101	Optical detection of folded mini-zone-edge coherent acoustic modes in a doped GaAs/AlAs superlattice. Physical Review B, 2010, 82, .	1.1	7
102	Hexagonal (wurtzite) GaN inclusions as a defect in cubic (zinc-blende) GaN. Physica B: Condensed Matter, 2012, 407, 2964-2966.	1.3	7
103	Resonant thermal energy transfer to magnons in a ferromagnetic nanolayer. Nature Communications, 2020, 11, 4130.	5.8	7
104	Tunnelling of Direct and Indirect Excitons in Slightly Asymmetric Double Quantum Wells. Acta Physica Polonica A, 1996, 90, 895-898.	0.2	7
105	Luminescence of excitons in slightly asymmetric double quantum wells. Physics of the Solid State, 1997, 39, 649-653.	0.2	6
106	Ultrafast all-optical switching in a three-dimensional photonic crystal. Journal of Luminescence, 2004, 108, 163-166.	1.5	6
107	Destruction and recurrence of excitons by acoustic shock waves on picosecond time scales. Physical Review B, 2012, 86, .	1.1	6
108	Hypersonic properties of monodisperse spherical mesoporous silica particles. Journal Physics D: Applied Physics, 2014, 47, 335303.	1.3	6

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109	Picosecond ultrasonics with miniaturized semiconductor lasers. <i>Ultrasonics</i> , 2020, 106, 106150.	2.1	6
110	Luminescence study of exciton drag by acoustic phonons in silicon. <i>Journal of Luminescence</i> , 1990, 45, 135-137.	1.5	5
111	Non-equilibrium acoustic phonon-assisted tunnelling in GaAs/(AlGa)As double barrier devices. <i>Surface Science</i> , 1996, 361-362, 181-184.	0.8	5
112	Phonon generation by carrier recombination in a-Si:H. <i>Physica B: Condensed Matter</i> , 1999, 263-264, 283-285.	1.3	5
113	Spin-Lattice Relaxation Study in Diluted Magnetic Semiconductor Quantum Wells and Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 229, 723-726.	0.7	5
114	Studying periodic nanostructures by probing the in-sample optical far-field using coherent phonons. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	5
115	Phonon wind on excitons in silicon. <i>Physica B: Condensed Matter</i> , 1991, 169, 382-387.	1.3	4
116	Exciton and free carrier dynamics under conditions of impurity photoionization in epitaxial GaAs. <i>Journal of Luminescence</i> , 1992, 53, 335-338.	1.5	4
117	Decay of nonequilibrium phonons in nanocrystalline silicon. <i>Physica B: Condensed Matter</i> , 1999, 263-264, 473-475.	1.3	4
118	Imaging phonon drag in gallium nitride. <i>Applied Physics Letters</i> , 2000, 77, 3403-3405.	1.5	4
119	Phonon emission by photoexcited carriers in InGaN/GaN multiple quantum wells. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 3445-3455.	0.7	4
120	Spin-phonon dynamics in doped magnetic quantum wells. <i>Physica B: Condensed Matter</i> , 2002, 316-317, 41-47.	1.3	4
121	Laser-pulse-induced Bragg diffraction spectrum rearrangement in opal-VO ₂ composites. <i>Physics of the Solid State</i> , 2003, 45, 240-243.	0.2	4
122	Femtosecond Bragg switching in opal-a-nc-Si photonic crystals. <i>Journal of Non-Crystalline Solids</i> , 2004, 338-340, 215-217.	1.5	4
123	High-frequency acousto-optic effects in Bragg reflectors. <i>Optics Express</i> , 2014, 22, 15218.	1.7	4
124	Protected Long-Distance Guiding of Hypersound Underneath a Nanocorrugated Surface. <i>ACS Nano</i> , 2021, 15, 4802-4810.	7.3	4
125	Ultrafast infrared experiments on Si-H vibrations in a-Si:H. <i>Journal of Non-Crystalline Solids</i> , 2000, 266-269, 180-184.	1.5	3
126	Exciton energy relaxation on acoustic phonons in double-quantum-well structures. <i>Physics of the Solid State</i> , 2001, 43, 752-762.	0.2	3

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127	Phonon emission by optically pumped indium arsenide quantum dots in gallium arsenide. <i>Physica B: Condensed Matter</i> , 2002, 316-317, 198-201.	1.3	3
128	Frequency dependence of acoustic phonon-assisted tunnelling in semiconductor superlattices. <i>Physica B: Condensed Matter</i> , 2002, 316-317, 209-211.	1.3	3
129	Spin-lattice relaxation in diluted magnetic (Cd,Mn)Se quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 867-870.	0.8	3
130	Acoustic solitons in semiconductor nanostructures. <i>Journal of Physics: Conference Series</i> , 2007, 92, 012002.	0.3	3
131	Phonon Spectroscopy with Chirped Shear and Compressive Acoustic Pulses. <i>Physical Review Letters</i> , 2017, 119, 255502.	2.9	3
132	A high electron mobility phonotransistor. <i>Communications Physics</i> , 2018, 1, .	2.0	3
133	Temporal superoscillations of subterahertz coherent acoustic phonons. <i>Physical Review Research</i> , 2020, 2, .	1.3	3
134	Phonon pulse detection in germanium and silicon with a fluorescence contact-type phonon spectrometer. <i>Solid State Communications</i> , 1984, 49, 885-886.	0.9	2
135	Far infrared emission from magnetically quantised 2DEGs in GaAs/(AlGa)As heterojunctions. <i>Surface Science</i> , 1994, 305, 280-284.	0.8	2
136	Phonon-assisted tunnelling in GaAs/(AlGa)As resonant tunnelling devices. <i>Physica B: Condensed Matter</i> , 1996, 219-220, 19-21.	1.3	2
137	Exciton Tunnelling Induced by Nonequilibrium Phonons in Slightly Asymmetric Double Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 204, 400-403.	0.7	2
138	Exciton-phonon interaction in single and double quantum wells. <i>Physica B: Condensed Matter</i> , 1999, 263-264, 175-179.	1.3	2
139	Dynamics of superradiant excitons in GaAs single quantum wells. <i>Journal of Luminescence</i> , 1999, 83-84, 309-312.	1.5	2
140	Phononic properties of opals. <i>Journal of Physics: Conference Series</i> , 2007, 92, 012107.	0.3	2
141	Optical properties of synthetic-opal films with a copper-filled pore sublattice. <i>Physics of the Solid State</i> , 2010, 52, 1170-1175.	0.2	2
142	Plasma-assisted electroepitaxy as a novel method for the growth of GaN layers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 538-541.	0.8	2
143	Quantized phonon modes in loaded polymer films. <i>Journal of Applied Physics</i> , 2013, 113, 033516.	1.1	2
144	Electrical detection of picosecond acoustic pulses in vertical transport devices with nanowires. <i>Applied Physics Letters</i> , 2014, 104, 062102.	1.5	2

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145	Photoelasticity of VO_2 nanolayers in insulating and metallic phases studied by picosecond ultrasonics. <i>Physical Review Materials</i> , 2020, 4, .	0.9	2
146	Effect of nonequilibrium acoustic phonons on the luminescence of multiquantum well structures. <i>Journal of Luminescence</i> , 1988, 40-41, 711-712.	1.5	1
147	Characterization of high-Tc superconducting films by laser imaging. <i>Superconductor Science and Technology</i> , 1991, 4, 602-605.	1.8	1
148	Localized high-frequency phonons in amorphous materials. <i>Physica B: Condensed Matter</i> , 1996, 219-220, 228-230.	1.3	1
149	Free-electron laser experiments on Si-H vibrations in a-Si:H. <i>Journal of Luminescence</i> , 1999, 83-84, 183-186.	1.5	1
150	Heating of two-dimensional excitons by nonequilibrium acoustic phonons. <i>Physics of the Solid State</i> , 1999, 41, 1564-1568.	0.2	1
151	Effect of nonequilibrium phonons on the tunnel current in superlattices. <i>Superlattices and Microstructures</i> , 1999, 25, 459-462.	1.4	1
152	Absorption of nonequilibrium acoustic phonons by low-mobility electrons in GaN. <i>Applied Physics Letters</i> , 2001, 78, 1089-1091.	1.5	1
153	Nonradiative processes and phonon emission in GaAsN alloys. <i>Physica B: Condensed Matter</i> , 2002, 316-317, 114-117.	1.3	1
154	The 29-cm ⁻¹ ruby phonon detector as a probe for ultrashort strain solitons. <i>Journal of Luminescence</i> , 2004, 108, 281-284.	1.5	1
155	Luminescence studies of spin dynamics in magnetic semiconductor nanostructures. <i>Journal of Luminescence</i> , 2007, 125, 1-10.	1.5	1
156	Acousto-optical nanoscopy of buried photonic nanostructures. <i>Optica</i> , 2017, 4, 588.	4.8	1
157	Ultrafast Strain-Induced Charge Transport in Semiconductor Superlattices. <i>Physical Review Applied</i> , 2020, 14, .	1.5	1
158	Optical Studies of Nonequilibrium Phonons in Semiconductors. , 1994, , 113-128.		1
159	Exciton-phonon interaction in quantum wells. , 2003, , 239-268.		1
160	Influence of nonequilibrium phonons on exciton luminescence in CdTe/CdMnTe quantum wells. <i>Physics of the Solid State</i> , 1998, 40, 750-753.	0.2	0
161	Phonon scattering from self-aligned InAs quantum dots in GaAs. <i>Microelectronic Engineering</i> , 1998, 43-44, 25-29.	1.1	0
162	Hot phonon-assisted electron resonant tunnelling through a donor level in a quantum well. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998, 2, 191-194.	1.3	0

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163	Phonon dynamics in amorphous and nanocrystalline silicon. Journal of Luminescence, 1999, 83-84, 161-165.	1.5	0
164	Detection of nonequilibrium phonons by the exciton luminescence in CdMnTe-based quantum wells. Physica B: Condensed Matter, 1999, 263-264, 501-503.	1.3	0
165	Phonon and Photon Emission from Optically Excited InGaN/GaN Multiple Quantum Wells. Physica Status Solidi (B): Basic Research, 2001, 228, 107-110.	0.7	0
166	The phonon-drag effect in low mobility gallium nitride epilayers. Physica B: Condensed Matter, 2002, 316-317, 110-113.	1.3	0
167	Ultrafast Bragg switching induced by a phase transition in a 3D photonic crystal. , 2004, , .		0
168	Spin-lattice relaxation in heteromagnetic nanostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2852-2855.	0.8	0
169	Spin dynamics of Mn-ion system in diluted-magnetic-semiconductor heterostructures based on ZnMnSe. AIP Conference Proceedings, 2005, , .	0.3	0
170	Picosecond kinetics of magnetization in optically excited (Zn,Mn)Se quantum wells. Physica Status Solidi (B): Basic Research, 2006, 243, 934-938.	0.7	0
171	Ultrafast piezospectroscopy in semiconductor nanostructures. Proceedings of SPIE, 2008, , .	0.8	0
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