

Oleg Misochko

List of Publications by Year in descending order

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times ranked

1187
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of an Amplitude Collapse and Revival of Chirped Coherent Phonons in Bismuth. <i>Physical Review Letters</i> , 2004, 92, 197401.	2.9	85
2	Temperature dependence of coherent A _{1g} and E _g phonons of bismuth. <i>Journal of Applied Physics</i> , 2006, 100, 093501.	1.1	56
3	On the nature of "coherent artifact". <i>Journal of Experimental and Theoretical Physics</i> , 2005, 100, 272-282.	0.2	48
4	Transient Bose-Einstein condensation of phonons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 321, 381-387.	0.9	47
5	Inelastic light scattering from electronic and phononic excitations in normal and superconducting Tl ₂ Ba ₂ CuO ₆ single crystals. <i>Physical Review B</i> , 1993, 47, 3450-3453.	1.1	41
6	Dynamics of low-frequency phonons in the YBa ₂ Cu ₃ O _{7-x} superconductor studied by time- and frequency-domain spectroscopies. <i>Physical Review B</i> , 2000, 61, 4305-4313.	1.1	41
7	Coherent A _{1g} and E _g phonons of antimony. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	41
8	Coherent phonons and their properties. <i>Journal of Experimental and Theoretical Physics</i> , 2001, 92, 246-259.	0.2	36
9	Phase-dependent noise in femtosecond pump-probe experiments on Bi and GaAs. <i>Physical Review B</i> , 2000, 61, 11225-11228.	1.1	35
10	Two Crossovers in the Pseudogap Regime of YBa ₂ Cu ₃ O _{7-x} Superconductors Observed by Ultrafast Spectroscopy. <i>Physical Review Letters</i> , 2002, 89, 067002.	2.9	33
11	Fully symmetric and doubly degenerate coherent phonons in semimetals at low temperature and high excitation: similarities and differences. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 10571-10584.	0.7	31
12	Raman-scattering evidence for free spinons in the one-dimensional spin-1/2 chains of Sr ₂ CuO ₃ and SrCuO ₂ . <i>Physical Review B</i> , 1996, 53, R14733-R14736.	1.1	28
13	Optical study of the Mott transition in V ₂ O ₃ : Comparison of time- and frequency-domain results. <i>Physical Review B</i> , 1998, 58, 12789-12794.	1.1	28
14	Generation of coherent phonons in bismuth by ultrashort laser pulses in the visible and NIR: Displacive versus impulsive excitation mechanism. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 2017-2022.	0.9	28
15	Ultrafast photoinduced structure phase transition in antimony single crystals. <i>Physical Review B</i> , 2009, 80, .	1.1	27
16	On the mixing of vibrational modes in high-T _c superconductors. <i>Physics Reports</i> , 1990, 194, 387-395.	10.3	25
17	Raman study of Tl-based superconducting single crystals: Phonons assignment and temperature dependence. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 160, 147-154.	0.6	23
18	Coherent Lattice Oscillations in Solids and Their Optical Control. <i>Springer Series in Chemical Physics</i> , 2010, , 23-46.	0.2	23

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19	Light scattering spectroscopy of TI-based superconductors: phonon and electronic excitations. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 162-164, 1409-1414.	0.6	22
20	Superconductivity-induced phonon anomalies in high-Tc superconductors: A Raman intensity study. <i>Physical Review B</i> , 1999, 59, 11495-11501.	1.1	22
21	Polarization dependence of coherent phonon generation and detection in the three-dimensional topological insulator Bi ₂ Te ₃ . <i>Physical Review B</i> , 2015, 91, .	1.1	22
22	Peculiar noise properties of phonons generated by femtosecond laser pulses in antimony. <i>Applied Physics Letters</i> , 2000, 76, 961-963.	1.5	21
23	Controlling phonon squeezing and correlation via one- and two-phonon interference. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 4141-4146.	0.9	21
24	Coherent lattice dynamics of the topological insulator Bi ₂ Te ₃ probed by ultrafast spectroscopy. <i>Applied Physics Letters</i> , 2014, 105, 011902.	1.5	21
25	Delayed formation of coherent LO phonon-plasmon coupled modes in n- and p-type GaAs measured using a femtosecond coherent control technique. <i>Physical Review B</i> , 2012, 86, .	1.1	20
26	Nonclassical states of lattice excitations: squeezed and entangled phonons. <i>Physics-Uspekhi</i> , 2013, 56, 868-882.	0.8	20
27	Fano interference at the excitation of coherent phonons: Relation between the asymmetry parameter and the initial phase of coherent oscillations. <i>Journal of Experimental and Theoretical Physics</i> , 2015, 120, 651-663.	0.2	20
28	Fano interference for large-amplitude coherent phonons in bismuth. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 156227.	0.7	19
29	Ultrafast phonon dynamics of epitaxial atomic layers of Bi on Si(111). <i>Physical Review B</i> , 2015, 91, .	1.1	19
30	Raman scattering in single crystal La ₂ CuO ₄ . <i>Solid State Communications</i> , 1988, 66, 1077-1078.	0.9	17
31	Raman-active finite-wavevector excitations experimental evidence and theoretical treatment. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 222, 219-226.	0.6	17
32	Implication of phase-dependent noise of coherent phonons in YBa ₂ Cu ₃ O _{7-δ} . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 269, 97-102.	0.9	17
33	Investigation of coherent phonons in bismuth by femtosecond laser and X-ray pulse probing. <i>JETP Letters</i> , 2009, 89, 129-132.	0.4	17
34	Observation of coherent optical phonons excited by femtosecond laser radiation in Sb films by ultrafast electron diffraction method. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 124, 422-428.	0.2	17
35	Resonant electronic Raman scattering in high-Tc superconductors. <i>Physical Review B</i> , 2002, 65, .	1.1	16
36	Manifestation of the orthorhombic symmetry in Raman spectra of untwinned single crystals of YBa ₂ Cu ₃ O _{7-δ} . <i>Physica C: Superconductivity and Its Applications</i> , 1989, 157, 341-345.	0.6	15

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37	Phonon-mode characterization of orthorhombic and tetragonal $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals by Raman spectroscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1989, 6, 440.	0.9	15
38	Phonon autoecho in bismuth and antimony single crystals. <i>JETP Letters</i> , 2003, 78, 75-79.	0.4	15
39	Ultrafast electronic dynamics in laser-excited crystalline bismuth. <i>Journal of Applied Physics</i> , 2013, 114, 033502.	1.1	15
40	Superconducting gap anisotropy and phonon anomalies in single crystal $\text{NdBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Physical Review B</i> , 1997, 56, 9116-9121.	1.1	14
41	Coherent A_{1g} phonons in Te studied with tailored femtosecond pulses. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 406220.	0.7	14
42	Effect of intense chirped pulses on the coherent phonon generation in Te. <i>Applied Physics Letters</i> , 2007, 90, 071901.	1.5	14
43	Coherent control of the lattice dynamics of bismuth near the lindemann stability limit. <i>Journal of Experimental and Theoretical Physics</i> , 2007, 104, 245-253.	0.2	14
44	Investigation of the dependence of the coherent dynamics of a bismuth lattice on the crystal excitation level. <i>Journal of Experimental and Theoretical Physics</i> , 2009, 109, 805-814.	0.2	14
45	Direct observation of two-phonon bound states in ZnTe. <i>Physical Review B</i> , 2011, 84, .	1.1	14
46	Raman study of ortho-II phase of the $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystal: Role of local oxygen ordering in the doping. <i>Solid State Communications</i> , 1994, 92, 877-882.	0.9	13
47	Femtosecond study of A_{1g} phonons in the strong 3D topological insulators: From pump-probe to coherent control. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	12
48	Raman study of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals grown by a pulling technique: Overdoped, underdoped, and nonsuperconducting state. <i>Physical Review B</i> , 1995, 51, 1346-1349.	1.1	11
49	Electronic Raman scattering in disordered $\text{Bi}_2\text{Sr}_2\text{Ca}(\text{Cu}_{1-x}\text{Fe}_x)_2\text{O}_8$: Impurity scattering effects. <i>Physical Review B</i> , 1999, 59, 11183-11186.	1.1	11
50	Progress in Ultrafast Intense Laser Science. Springer Series in Chemical Physics, 2010, , .	0.2	11
51	Resonant electronic Raman scattering in optimally doped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8-x}$ superconductor. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 9095-9105.	0.7	10
52	On the nature of coherent phonons generated by ultrashort laser pulses in single-crystal antimony. <i>Physics of the Solid State</i> , 2004, 46, 1741-1749.	0.2	10
53	Investigation of ultrafast processes in photoexcited bismuth by broadband probing in the wavelength range $0.4 \leq \lambda < 0.9 \mu\text{m}$. <i>Journal of Experimental and Theoretical Physics</i> , 2010, 111, 431-439.	0.2	10
54	Ultrafast coherent lattice and incoherent carrier dynamics in bismuth: time-domain results. <i>Laser Physics</i> , 2014, 24, 094004.	0.6	10

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55	Experimental evidence of the existence of a nonstationary coherent crystal state in bismuth. Journal of Experimental and Theoretical Physics, 2014, 118, 227-234.	0.2	10
56	Raman spectra of $Tl_2Ba_2CuO_{6-x}$ crystals under pressure up to 20 GPa. Solid State Communications, 1989, 72, 465-467.	0.9	9
57	Extended Van Hove Singularity in Raman Spectra of High-Tc Superconductors. International Journal of Modern Physics B, 1998, 12, 2455-2473.	1.0	9
58	Coherent optical phonons of ZnO under near resonant photoexcitation. Journal of Physics Condensed Matter, 2010, 22, 465803.	0.7	9
59	Pump pulse duration dependence of coherent phonon amplitudes in antimony. Journal of Experimental and Theoretical Physics, 2016, 123, 292-302.	0.2	9
60	Low energy Raman continua of $La_{2-x}Sr_xCu_2O_4$ high-Tc superconductors: polarization, doping and temperature dependences. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 248, 423-430.	0.9	8
61	Pairing symmetry and localization probed by electronic Raman scattering in disordered high-Tc superconductors. Physical Review B, 1999, 60, 1326-1331.	1.1	8
62	Femtosecond pump-probe study of $YBa_2Cu_4O_8$ superconductor. Physica C: Superconductivity and Its Applications, 2000, 329, 12-16.	0.6	8
63	Fano interference with the alternating asymmetry parameter in time-domain experiments. JETP Letters, 2005, 82, 426-430.	0.4	8
64	Optical control of the coherent dynamics of a bismuth lattice at liquid-helium temperature at low and high excitation levels. JETP Letters, 2009, 90, 284-288.	0.4	8
65	Generation of coherent phonons in opaque crystals: A radio engineering analogy. Physics of the Solid State, 2009, 51, 1843-1852.	0.2	8
66	Features of coherent phonons of the strong topological insulator Bi_2Te_3 . JETP Letters, 2015, 102, 235-241.	0.4	8
67	Direct observation of the generation of coherent optical phonons in thin antimony films by the femtosecond electron diffraction method. JETP Letters, 2016, 103, 531-534.	0.4	8
68	Coherent lattice dynamics in opaque crystals: Testing the adequacy of two-tensor model. Physical Review B, 2016, 94, .	1.1	8
69	Probing the Fluctuations of Optical Properties in Time-Resolved Spectroscopy. Physical Review Letters, 2017, 119, 187403.	2.9	8
70	Photoinduced Ultrafast Symmetry Switch in $SnSe$. Journal of Physical Chemistry Letters, 2022, 13, 442-448.	2.1	8
71	RANDOM POTENTIAL INFLUENCE ON PHONON RAMAN SCATTERING IN HIGH-TEMPERATURE SUPERCONDUCTORS. International Journal of Modern Physics B, 1994, 08, 3371-3388.	1.0	7
72	Study of electronic raman continua in single crystal $Bi_2Sr_2CaCu_2O_{8+x}$. Physica C: Superconductivity and Its Applications, 1997, 288, 115-120.	0.6	7

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73	Temperature dependence of electronic Raman scattering as a probe of pairing symmetry in high-T _c superconductors. Solid State Communications, 1999, 113, 141-145.	0.9	7
74	Mixing of low-frequency Raman-active phonons studied by femtosecond pump-probe spectroscopy. Physica C: Superconductivity and Its Applications, 1999, 320, 213-217.	0.6	7
75	Spectrally filtered time domain study of coherent phonons in semimetals. Journal of Physics Condensed Matter, 2004, 16, 1879-1886.	0.7	7
76	Comment on "Small Atomic Displacements Recorded in Bismuth by the Optical Reflectivity of Femtosecond Laser-Pulse Excitations", Physical Review Letters, 2009, 102, 029701; author reply 29702.	2.9	7
77	RESONANT PROPERTIES OF INELASTIC LIGHT SCATTERING IN Bi ₂ Sr ₂ CaCu ₂ O _{8-x} SUPERCONDUCTING SINGLE CRYSTALS. Modern Physics Letters B, 1992, 06, 1137-1143.	1.0	6
78	Coherent phonons in InSb and their properties from femtosecond pump-probe experiments. Physica B: Condensed Matter, 2000, 293, 33-37.	1.3	6
79	Raman study of lattice modes in the orthorhombic and tetragonal YBa ₂ Cu ₃ O _{7-x} single crystals. Physica C: Superconductivity and Its Applications, 1988, 153-155, 286-287.	0.6	5
80	Electronic Raman scattering in differently doped high-T _c materials. Physica B: Condensed Matter, 1994, 194-196, 1539-1540.	1.3	5
81	Landau damping in high-temperature superconductors. Physical Review B, 1995, 51, 1326-1329.	1.1	5
82	Extended Van Hove singularity in electronic Raman scattering in YBa ₂ Cu ₄ O ₈ . Physical Review B, 1999, 59, 195-198.	1.1	5
83	Phonons in V ₂ O ₃ above and below the Mott transition: a comparison of time- and frequency-domain spectroscopy results. Physica B: Condensed Matter, 1999, 263-264, 57-59.	1.3	5
84	Generation of coherent off-diagonal raman-active phonons by femtosecond laser pulses in high-temperature superconductor YBa ₂ Cu ₃ O _{7-x} . Physics of the Solid State, 2001, 43, 1195-1198.	0.2	5
85	Amplitude beating of coherent phonon in graphite under high intensity photo-excitation. Surface Science, 2005, 593, 116-121.	0.8	5
86	Observation of longitudinal optical-transverse optical splitting for E-symmetry phonons in Te by coherent phonon spectroscopy. Journal of Physics Condensed Matter, 2005, 17, 3015-3023.	0.7	5
87	Phase estimation algorithm for the multibeam optical metrology. Scientific Reports, 2020, 10, 8715.	1.6	5
88	Resonant dependences of Raman scattering in Y ₁ Ba ₂ Cu ₃ O _{7-x} at different oxygen content. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1025-1026.	0.6	4
89	Superconducting gap observed in Raman spectra of Bi ₂ Sr ₂ CaCu ₂ O _{8+x} . Physics of the Solid State, 1998, 40, 914-916.	0.2	4
90	Optical investigation of coherent and thermal phonons in high-T _c superconductors. Physics of the Solid State, 2000, 42, 1204-1206.	0.2	4

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91	Two-electron pulses of a photomultiplier and two-photon photoeffect. Quantum Electronics, 2008, 38, 710-723.	0.3	4
92	Ultrafast broadband spectroscopy of crystalline bismuth. Quantum Electronics, 2013, 43, 313-319.	0.3	4
93	Temperature effect on the coupling between coherent longitudinal phonons and plasmons in n -type and p -type GaAs. Physical Review B, 2018, 97, .	1.1	4
94	Multimode Semiconductor Laser: Quantum Versus Classical Behavior. Journal of Russian Laser Research, 2019, 40, 64-70.	0.3	4
95	Ultrafast carrier dynamics of Bi ₂ O ₂ Se nanoplates in the nonlinear excitation regime. Chemical Physics, 2021, 541, 111017.	0.9	4
96	Attosecond-Resolved Coherent Control of Lattice Vibrations in Thermoelectric SnSe. Journal of Physical Chemistry Letters, 2022, 13, 2584-2590.	2.1	4
97	Far-infrared studies of residual unpaired carriers in YBa ₂ Cu ₃ O _{7-δ} crystals. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1109-1110.	0.6	3
98	Raman intensity of A _{1g} phonons in y superconductors. Physical Review B, 2001, 63, .	1.1	3
99	A time-resolved optical study of the paramagnetic dielectric-ferromagnetic metal transition in La _{0.7} Ca _{0.3} MnO ₃ . Journal of Experimental and Theoretical Physics, 2003, 97, 788-793.	0.2	3
100	Electronic Raman scattering in high-temperature superconductors. Physics-Uspexhi, 2003, 46, 373-392.	0.8	3
101	Raman scattering on overtones of fully symmetric LO phonons in Zn _{0.9} Mn _{0.1} O nanocrystals under resonance excitation conditions. Technical Physics Letters, 2009, 35, 1086-1089.	0.2	3
102	Growth of ZnO nanocrystals by pulsed laser deposition on sapphire and silicon and the infrared spectra of the nanocrystals. Semiconductors, 2009, 43, 1532-1538.	0.2	3
103	RAMAN STUDY OF THE SUPERCONDUCTING ORDER PARAMETER IN PURE AND DISORDERED Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} SINGLE CRYSTALS. International Journal of Modern Physics B, 2000, 14, 1501-1515.	1.0	2
104	A new technique for measuring light statistics. Measurement Science and Technology, 2001, 12, 736-739.	1.4	2
105	Characteristic features of the pseudogap and superconducting states of YBa ₂ Cu ₃ O _{7-x} . JETP Letters, 2002, 75, 642-645.	0.4	2
106	Raman scattering in metals with disorder: beyond the zero-momentum approximation. Journal of Physics Condensed Matter, 2003, 15, 3751-3758.	0.7	2
107	Coupled phonon-plasmon modes in indium phosphide observed by an ultrafast pump-probe technique. Journal of Physics Condensed Matter, 2005, 17, 5577-5585.	0.7	2
108	Effect of phase modulation of a laser pulse on the generation of a coherent totally symmetric phonon in a tellurium single crystal. Physics of the Solid State, 2007, 49, 2171-2176.	0.2	2

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109	Oriented ZnO nanorods and their IR reflection spectra. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 1528-1531.	0.1	2
110	Ultrafast zone-center coherent lattice dynamics in ferroelectric lithium tantalate. Science and Technology of Advanced Materials, 2011, 12, 034409.	2.8	2
111	Inhomogeneity as a source of collapse and revival for large-amplitude chirped coherent phonons in bismuth. Physical Review B, 2014, 90, .		
112	Coherent Lattice Oscillations in Solids and Their Optical Control. Springer Series in Chemical Physics, 2010, , 47-63.	0.2	2
113	Origin of the phonon anomalies in the C-axis optical spectrum of YBa ₂ Cu ₃ O _{7-δ} . Physica C: Superconductivity and Its Applications, 1994, 235-240, 1171-1172.	0.6	1
114	Van Hove singularity in Raman scattering spectra of high-T _c superconductors. Physics of the Solid State, 1998, 40, 23-26.	0.2	1
115	Anisotropy of the Raman scattering measured in the xy plane of a nontwinned YBa ₂ Cu ₃ O _{7-δ} single crystal. Journal of Experimental and Theoretical Physics, 2002, 94, 345-349.	0.2	1
116	Coherent phonons in NdBa ₂ Cu ₃ O _{7-δ} single crystals: Optical-response anisotropy and hysteretic behavior. Journal of Experimental and Theoretical Physics, 2004, 98, 341-347.	0.2	1
117	Study of Thermal and Coherent A _{1g} Phonons in Bismuth Telluride. Journal of Experimental and Theoretical Physics, 2018, 126, 64-75.	0.2	1
118	A Triple Correlator of Radiation Intensities of a Multimode Semiconductor Laser. Optics, 2020, 1, 32-39.	0.6	1
119	Coherent A _{1g} and E _g Phonons of Antimony. Springer Series in Chemical Physics, 2009, , 220-222.	0.2	1
120	Initiation of fluorine reaction with hydrogen with the action of pulsed laser radiation on the surface of a reaction vessel. Combustion, Explosion and Shock Waves, 1982, 18, 380-382.	0.3	0
121	Raman scattering peculiarities in high-T _c superconductors. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1249-1250.	0.6	0
122	Effect of high pressure on raman spectra of Tl-based superconducting crystals. High Pressure Research, 1991, 7, 44-46.	0.4	0
123	How phonon damping in high - temperature superconductors manifests itself in Raman scattering?. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1157-1158.	0.6	0
124	Manifestations of the two-quantum photoeffect and photon statistics in the photoelectron multiplier pulse amplitude distribution. Journal of Experimental and Theoretical Physics, 2001, 93, 1168-1177.	0.2	0
125	Nonlinear lattice dynamics of bismuth as a means of clarifying the nature of coherent phonons. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1117-1119.	0.1	0
126	Michelson interferometer with multichannel interferogram recording. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2009, 107, 826-829.	0.2	0

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127	Nonequilibrium phase transition in v-group semimetals, induced by ultrashort laser pulses. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 589-591.	0.1	0
128	Coherent crystallization of bismuth under strong excitation by ultrashort laser pulses. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 1043-1045.	0.1	0
129	Ultrafast dynamics of crystalline bismuth studied by femtosecond pulses in visible and near-infrared range. , 2010, , .		0
130	Ultrafast electronic dynamics in laser-excited crystalline bismuth. EPJ Web of Conferences, 2013, 41, 04006.	0.1	0
131	Manipulation of Squeezed Two-Phonon Bound States using Femtosecond Laser Pulses. EPJ Web of Conferences, 2013, 41, 04019.	0.1	0
132	Study of ultrafast processes in matter by means of time-resolved electron diffraction and microscopy. EPJ Web of Conferences, 2017, 161, 01002.	0.1	0
133	Control of the Dephasing of the Coherent Phonons Excited by Femtosecond Laser Pulses in Opaque Crystals. Journal of Experimental and Theoretical Physics, 2019, 128, 827-839.	0.2	0
134	Coherent control of phonon localization in ZnTe(110) using femtosecond laser pulses. , 2011, , .		0
135	Collapse and revival of large-amplitude coherent phonons: polarization interference versus quantum beats. , 2014, , .		0
136	Raman Phonons in Cuprate Superconductors. Springer Series in Solid-state Sciences, 1993, , 198-199.	0.3	0
137	On the question of a classical analog of the Fano problem. Physics-Uspekhi, 2022, 65, 627-640.	0.8	0
138	New Evidence for a Nonclassical Behavior of Laser Multimode Light. Optics, 2022, 3, 46-52.	0.6	0