

# Pawel Machnikowski

## List of Publications by Year in descending order

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178  
papers

2,294  
citations

236612

25  
h-index

264894

42  
g-index

180  
all docs

180  
docs citations

180  
times ranked

1268  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-photon Rabi oscillations in a single In <sub>x</sub> Ga <sub>1-x</sub> As quantum dot. Physical Review B, 2006, 73, .	1.1	175
2	Resonant nature of phonon-induced damping of Rabi oscillations in quantum dots. Physical Review B, 2004, 69, .	1.1	100
3	Complete disentanglement by partial pure dephasing. Physical Review A, 2006, 73, .	1.0	91
4	The role of acoustic phonons for Rabi oscillations in semiconductor quantum dots. Applied Physics B: Lasers and Optics, 2005, 81, 897-904.	1.1	82
5	Quantum Kinetic Theory of Phonon-Assisted Excitation Transfer in Quantum Dot Molecules. Physical Review Letters, 2008, 100, 027401.	2.9	70
6	Coherent and incoherent phonon processes in artificial atoms. European Physical Journal D, 2003, 22, 319-331.	0.6	65
7	Long-time dynamics and stationary nonequilibrium of an optically driven strongly confined quantum dot coupled to phonons. Physical Review B, 2011, 84, .	1.1	59
8	Influence of acoustic phonons on the optical control of quantum dots driven by adiabatic rapid passage. Physical Review B, 2012, 85, .	1.1	55
9	Reducing decoherence of the confined exciton state in a quantum dot by pulse-sequence control. Physical Review B, 2005, 71, .	1.1	53
10	Optimal strategy for a single-qubit gate and the trade-off between opposite types of decoherence. Physical Review A, 2004, 70, .	1.0	51
11	Phonon-induced decoherence for a quantum-dot spin qubit operated by Raman passage. Physical Review B, 2005, 71, .	1.1	49
12	Partly noiseless encoding of quantum information in quantum dot arrays against phonon-induced pure dephasing. Physical Review B, 2006, 73, .	1.1	48
13	Exciton spin decay in quantum dots to bright and dark states. Physical Review B, 2007, 76, .	1.1	46
14	Magnetopolaron in a weakly elliptical InAs/GaAs quantum dot. Physical Review B, 2003, 67, .	1.1	40
15	Collective fluorescence and decoherence of a few nearly identical quantum dots. Physical Review B, 2007, 75, .	1.1	40
16	Biexciton state preparation in a quantum dot via adiabatic rapid passage: Comparison between two control protocols and impact of phonon-induced dephasing. Physical Review B, 2013, 87, .	1.1	39
17	Carrier trapping and luminescence polarization in quantum dashes. Physical Review B, 2012, 85, .	1.1	38
18	Some properties of double-Morse potentials. Journal of Physics A, 1998, 31, 7541-7559.	1.6	37

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19	Anharmonicity-induced polaron relaxation in GaAs/InAs quantum dots. <i>Physical Review B</i> , 2002, 65, .	1.1	37
20	Change of Decoherence Scenario and Appearance of Localization due to Reservoir Anharmonicity. <i>Physical Review Letters</i> , 2006, 96, 140405.	2.9	34
21	Phonon-assisted relaxation and tunneling in self-assembled quantum dot molecules. <i>Physical Review B</i> , 2010, 81, .	1.1	34
22	“Which path” decoherence in quantum dot experiments. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 351, 251-256.	0.9	30
23	Unavoidable decoherence in semiconductor quantum dots. <i>Physical Review B</i> , 2005, 72, .	1.1	28
24	Phonon-assisted tunneling between singlet states in two-electron quantum dot molecules. <i>Physical Review B</i> , 2008, 78, .	1.1	28
25	Theory of two-photon processes in quantum dots: Coherent evolution and phonon-induced dephasing. <i>Physical Review B</i> , 2008, 78, .	1.1	26
26	Phonon-induced dephasing of singlet-triplet superpositions in double quantum dots without spin-orbit coupling. <i>Physical Review B</i> , 2009, 80, .	1.1	26
27	Energy transport and coherence properties of acoustic phonons generated by optical excitation of a quantum dot. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 355802.	0.7	26
28	A certain double-well potential related to SU(2) symmetry. <i>Journal of Physics A</i> , 1995, 28, 3757-3762.	1.6	25
29	Role of Coulomb correlations for femtosecond pump-probe signals obtained from a single quantum dot. <i>Physical Review B</i> , 2011, 84, .	1.1	25
30	Quantum-state transfer in spin chains via isolated resonance of terminal spins. <i>Physical Review A</i> , 2014, 89, .	1.0	25
31	Coulomb Mediated Hybridization of Excitons in Coupled Quantum Dots. <i>Physical Review Letters</i> , 2016, 116, 077401.	2.9	25
32	Electron states in a double quantum dot with broken axial symmetry. <i>Physical Review B</i> , 2014, 90, .	1.1	24
33	Optomechanical wave mixing by a single quantum dot. <i>Optica</i> , 2021, 8, 291.	4.8	24
34	Decoherence-assisted initialization of a resident hole spin polarization in a $p$ -doped semiconductor quantum well. <i>Physical Review B</i> , 2011, 84, .	1.1	23
35	Enhanced spontaneous optical emission from inhomogeneous ensembles of quantum dots is induced by short-range coupling. <i>Physical Review B</i> , 2012, 86, .	1.1	22
36	Phonon-assisted radiative recombination of excitons confined in strongly anisotropic nanostructures. <i>Physical Review B</i> , 2014, 90, .	1.1	22

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37	Phonon Effects on Population Inversion in Quantum Dots: Resonant, Detuned and Frequency-Swept Excitations. Acta Physica Polonica A, 2012, 122, 1065-1068.	0.2	22
38	Phonon-assisted relaxation between hole states in quantum dot molecules. Physical Review B, 2012, 85, .	1.1	21
39	Dephasing in the adiabatic rapid passage in quantum dots: Role of phonon-assisted biexciton generation. Physical Review B, 2012, 86, .	1.1	20
40	Quantum-information encoding in dressed qubits. Physical Review A, 2007, 75, .	1.0	19
41	Dynamics of quantum dots with strong electron phonon coupling: Correlation expansion vs. path integrals. Physica Status Solidi (B): Basic Research, 2011, 248, 839-842.	0.7	19
42	Dominant role of the shear strain induced admixture in spin-flip processes in self-assembled quantum dots. Physical Review B, 2018, 97, .	1.1	19
43	Theory of which pathdephasing in single electron interference due to trace in conductive environment. Physical Review B, 2006, 73, .	1.1	18
44	Excitons in quantum dot molecules: Coulomb coupling, spin-orbit effects, and phonon-induced line broadening. Physical Review B, 2013, 88, .	1.1	18
45	Interplay and optimization of decoherence mechanisms in the optical control of spin quantum bits implemented on a semiconductor quantum dot. Physical Review B, 2007, 76, .	1.1	17
46	Interplay of coupling and superradiant emission in the optical response of a double quantum dot. Physical Review B, 2009, 80, .	1.1	17
47	Height-driven linear polarization of the surface emission from quantum dashes. Semiconductor Science and Technology, 2012, 27, 105022.	1.0	17
48	Acoustic phonon sideband dynamics during polaron formation in a single quantum dot. Optics Letters, 2020, 45, 919.	1.7	16
49	Theory of nonlinear optical response of ensembles of double quantum dots. Physical Review B, 2009, 80, .	1.1	13
50	Phonon-assisted tunneling of electrons in a quantum well/quantum dot injection structure. Physical Review B, 2015, 91, .	1.1	13
51	Hyperfine interaction for holes in quantum dots: <math>k\cdot p</math> model. Physical Review B, 2019, 100, .	1.1	13
52	Exciton-LO phonon dynamics in InAs/GaAs quantum dots: Effects of zone-edge phonon damping. Physical Review B, 2005, 71, .	1.1	12
53	Two-phonon polaron resonances in self-assembled quantum dots. Physical Review B, 2010, 81, .	1.1	12
54	Phonon effects on the radiative recombination of excitons in double quantum dots. Physical Review B, 2011, 84, .	1.1	12

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55	Vacuum-induced coherence in quantum dot systems. <i>Physical Review B</i> , 2012, 86, .	1.1	12
56	Limited accuracy of conduction band effective mass equations for semiconductor quantum dots. <i>Scientific Reports</i> , 2018, 8, 2873.	1.6	12
57	Resonance-fluorescence spectral dynamics of an acoustically modulated quantum dot. <i>Physical Review Research</i> , 2021, 3, .	1.3	12
58	Phonon-assisted excitation transfer in quantum dot molecules: from quantum kinetics to transfer rates. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 320-324.	0.7	11
59	Superradiance and enhanced luminescence from ensembles of a few self-assembled quantum dots. <i>Physical Review B</i> , 2014, 90, .	1.1	11
60	Hole Subband Mixing and Polarization of Luminescence from Quantum Dashes: A Simple Model. <i>Acta Physica Polonica A</i> , 2011, 119, 633-636.	0.2	11
61	Dynamics of a hydrogen-bonded linear chain with a new type of one-particle potential. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 4325-4338.	0.7	10
62	Electronic and optical properties of non-uniformly shaped InAs/InP quantum dashes. <i>Semiconductor Science and Technology</i> , 2012, 27, 105012.	1.0	10
63	Theory of the time-resolved Kerr rotation in ensembles of trapped holes in semiconductor nanostructures. <i>Physical Review B</i> , 2010, 81, .	1.1	9
64	Remote Phonon Control of Quantum Dots and Other Artificial Atoms. <i>Advanced Quantum Technologies</i> , 2021, 4, 2000128.	1.8	9
65	Local field effects in ultrafast light-matter interaction measured by pump-probe spectroscopy of monolayer MoSe <sub>2</sub> . <i>Nanophotonics</i> , 2021, 10, 2717-2728.	2.9	9
66	Tailoring the photoluminescence polarization anisotropy of a single InAs quantum dash by a post-growth modification of its dielectric environment. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	8
67	Controlling photoluminescence spectra of hBN color centers by selective phonon-assisted excitation: a theoretical proposal. <i>Materials for Quantum Technology</i> , 2021, 1, 015004.	1.2	8
68	Damping of Rabi oscillations in quantum dots due to lattice dynamics. <i>Semiconductor Science and Technology</i> , 2004, 19, S299-S300.	1.0	7
69	Coulomb matrix elements for the impact ionization process in nanocrystals: An envelope function approach. <i>Physical Review B</i> , 2013, 87, .	1.1	7
70	Pure dephasing of carriers in quantum dots due to anharmonicity-induced phonon scattering. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2247-2251.	0.7	6
71	Four-wave mixing optical response of an ensemble of quantum dot molecules. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 492-495.	0.8	6
72	Intraband absorption in finite, inhomogeneous quantum dot stacks for intermediate band solar cells: Limitations and optimization. <i>Journal of Applied Physics</i> , 2012, 112, 124318.	1.1	6

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73	Decay and persistence of spatial coherence during phonon-assisted relaxation in double quantum dots. <i>Physical Review B</i> , 2015, 91, .	1.1	6
74	Polaron resonances in two vertically stacked quantum dots. <i>Physical Review B</i> , 2017, 95, .	1.1	6
75	Controllable electron spin dephasing due to phonon state distinguishability in a coupled quantum dot system. <i>Physical Review B</i> , 2018, 98, .	1.1	6
76	Hole spin-flip transitions in a self-assembled quantum dot. <i>Physical Review B</i> , 2020, 102, .	1.1	6
77	Phonon-Assisted Excitation Transfer in Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2007, 112, 197-202.	0.2	6
78	Collective Luminescence and Phonon-Induced Processes in Double Quantum Dots. <i>Acta Physica Polonica A</i> , 2009, 116, 818-825.	0.2	6
79	Optically driving the radiative Auger transition. <i>Nature Communications</i> , 2021, 12, 6575.	5.8	6
80	Kink dynamics in finite discrete sine-Gordon chains. <i>Physical Review E</i> , 1999, 59, 2347-2354.	0.8	5
81	Optical initialization of hole spins in p-doped quantum dots: Orientation efficiency and loss of coherence. <i>Physical Review B</i> , 2013, 87, .	1.1	5
82	Destructive Photon Echo Formation in Six-Wave Mixing Signals of a MoSe <sub>2</sub> Monolayer. <i>Advanced Science</i> , 2021, , 2103813.	5.6	5
83	Instability of bell-shaped solitary waves in a two-component hydrogen-bonded chain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 242, 313-318.	0.9	4
84	Thermodynamics of the asymmetric double-sinh-Gordon theory in 1+1 dimensions. <i>Physical Review E</i> , 2001, 64, 062103.	0.8	4
85	Two-photon processes in quantum dots: biexciton Rabi oscillations and exciton polarization flipping. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2486-2489.	0.8	4
86	Indirect spin dephasing via charge-state decoherence in optical control schemes in quantum dots. <i>Physical Review A</i> , 2009, 79, .	1.0	4
87	Self-induced coherence in a single pair of quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 847-850.	0.7	4
88	Spin dynamics in p-doped semiconductor nanostructures subject to a magnetic field tilted from the Voigt geometry. <i>Physical Review B</i> , 2013, 88, .	1.1	4
89	Interband Coulomb coupling in narrow-gap semiconductor nanocrystals: $k$ -theory. <i>Physical Review B</i> , 2015, 91, .	1.1	4
90	Decoherence-enhanced quantum measurement of a quantum-dot spin qubit. <i>Physical Review A</i> , 2015, 91, .	1.0	4

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91	Time-resolved magneto-Raman study of carrier dynamics in low Landau levels of graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	4
92	Influence of local fields on the dynamics of four-wave mixing signals from 2D semiconductor systems. <i>New Journal of Physics</i> , 2021, 23, 023036.	1.2	4
93	Multiple Exciton Generation in InAs Nanocrystals. <i>Acta Physica Polonica A</i> , 2008, 114, 1187-1192.	0.2	4
94	Coherent Dynamics of a Single Mn-Doped Quantum Dot Revealed by Four-Wave Mixing Spectroscopy. <i>ACS Photonics</i> , 0, , .	3.2	4
95	Comment on "Bounces and the calculation of quantum tunnelling effects for the asymmetric double-well potential". <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 292, 300-302.	0.9	3
96	Publisher's Note: Complete disentanglement by partial pure dephasing [Phys. Rev. A73, 022313 (2006)]. <i>Physical Review A</i> , 2006, 73, .	1.0	3
97	Radiative and phonon-induced dephasing in double quantum dots. <i>Journal of Physics: Conference Series</i> , 2009, 193, 012136.	0.3	3
98	Polaron contributions to the biexciton binding energies in self-assembled quantum dots. <i>Physical Review B</i> , 2011, 83, .	1.1	3
99	Dynamics of dissipative multiple exciton generation in semiconductor nanostructures. <i>Physical Review B</i> , 2013, 88, .	1.1	3
100	Double quantum dot in a quantum dash: Optical properties. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	3
101	The Phonon-Assisted Radiative Recombination of Excitons Confined in InAs Quantum Dashes. <i>Acta Physica Polonica A</i> , 2013, 124, 813-816.	0.2	3
102	Spin dynamics and magneto-optical response in charge-neutral tunnel-coupled quantum dots. <i>Semiconductor Science and Technology</i> , 2017, 32, 045005.	1.0	3
103	Diffusion of excitations and power-law localization in strongly disordered systems with long-range coupling. <i>Physical Review B</i> , 2020, 102, .	1.1	3
104	Four-Wave Mixing Spectroscopy of Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2007, 112, 167-172.	0.2	3
105	Phonon-Assisted Tunneling of an Electron in a Strained Self-Assembled Quantum Dot Molecule. <i>Acta Physica Polonica A</i> , 2008, 114, 1285-1291.	0.2	3
106	Carrier Spin Dephasing during Spin-Preserving Tunneling in Coupled Quantum Dots. <i>Acta Physica Polonica A</i> , 2016, 130, 1165-1168.	0.2	3
107	Photon scattering from a quantum acoustically modulated two-level system. <i>AVS Quantum Science</i> , 2022, 4, .	1.8	3
108	Nontopological solitary waves in continuous and discrete one-component molecular chains. <i>Physical Review E</i> , 2000, 63, 016601.	0.8	2

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109	Manifestation of fundamental quantum complementarities in time-domain interference experiments with quantum dots: A theoretical analysis. <i>Physical Review B</i> , 2005, 72, .	1.1	2
110	Dynamical dephasing of optically controlled charge qubits in quantum dots. <i>Journal of Physics: Conference Series</i> , 2006, 30, 25-29.	0.3	2
111	Which way interpretation of the dephasing of charge qubits in quantum dots. <i>Journal of Physics: Conference Series</i> , 2006, 30, 52-55.	0.3	2
112	Phonon-induced disentanglement of confined excitons. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2261-2265.	0.7	2
113	Exciton spin decay in quantum dots: single and double phonon assisted transitions. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 537-541.	0.8	2
114	Nonlinear optical response of hole-trion systems in quantum dots in tilted magnetic fields. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1231-1234.	0.8	2
115	Adiabatic rapid passage in quantum dots: phonon-assisted decoherence and biexciton generation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1210-1213.	0.8	2
116	Photon-photon correlation statistics in the collective emission from ensembles of self-assembled quantum dots. <i>Physical Review B</i> , 2016, 93, .	1.1	2
117	Effect of Dielectric Medium Anisotropy on the Polarization Degree of Emission from a Single Quantum Dash. <i>Acta Physica Polonica A</i> , 2016, 129, A-48-A-52.	0.2	2
118	Spin-orbit-induced hole spin relaxation in a quantum dot molecule: the effect of s-p coupling. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 355304.	0.7	2
119	Phonon-assisted carrier tunneling with hyperfine-induced spin flip in coupled quantum dot systems. <i>Physical Review B</i> , 2021, 104, .	1.1	2
120	Phonon-assisted relaxation between triplet and singlet states in a self-assembled double quantum dot. <i>Scientific Reports</i> , 2021, 11, 15256.	1.6	2
121	Phonon-Induced Dephasing in Quantum Dots - Interpretation in Terms of Information Leakage. <i>Acta Physica Polonica A</i> , 2006, 110, 325-330.	0.2	2
122	Electron States, Phonon-Assisted Relaxation and Tunneling in Self-Assembled Quantum Dot Molecules in an Electric Field. <i>Acta Physica Polonica A</i> , 2011, 119, 637-639.	0.2	2
123	One-dimensional broken translation symmetry and pseudo-Goldstone excitation. <i>Journal of Physics A</i> , 2002, 35, L101-L104.	1.6	1
124	Spin-Based Quantum Information Processing in Magnetic Quantum Dots. <i>Open Systems and Information Dynamics</i> , 2005, 12, 133-141.	0.5	1
125	Decay of Entanglement Due to Pure Dephasing: the Role of Geometry of Entangled States. <i>Open Systems and Information Dynamics</i> , 2007, 14, 63-68.	0.5	1
126	Theoretical study of phonon-assisted singlet-singlet relaxation in two-electron semiconductor quantum dot molecules. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 474-478.	0.8	1



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127	Dynamics of a single Mn spin in a quantum dot: The role of magnetic fields in Faraday and Voigt geometry. <i>Journal of Physics: Conference Series</i> , 2009, 193, 012101.	0.3	1
128	Spin dynamics in two-dimensional electron and hole systems revealed by resonant spin amplification. , 2012, , .		1
129	Laser driven dynamics of a quantum dot coupled to phonons: Dependence of the reappearance of Rabi rotations on the pulse length and shape. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 1281-1283.	0.8	1
130	Phonon influence on the measurement of spin states in double quantum dots using the quantum point contact. <i>Physical Review B</i> , 2013, 88, .	1.1	1
131	Phonon-Assisted Processes and Spontaneous Emission in Double Quantum Dots. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014, , 281-331.	0.4	1
132	Phonon-Induced Dephasing of Optically Driven Exciton States in Quantum Dots: Spectral Interpretation. <i>Acta Physica Polonica A</i> , 2005, 108, 761-767.	0.2	1
133	Collective Encoding of Quantum Information in a Quantum Dot Register. <i>Acta Physica Polonica A</i> , 2006, 110, 195-200.	0.2	1
134	Two-Photon Coherent Polarization Flipping of Confined Excitons. <i>Acta Physica Polonica A</i> , 2007, 112, 289-293.	0.2	1
135	Second-Order Resonant Polaron in a Self-Assembled Quantum Dot. <i>Acta Physica Polonica A</i> , 2008, 114, 1139-1144.	0.2	1
136	Calculation of Anharmonic Coupling Constants between Phonon Modes in GaAs. <i>Acta Physica Polonica A</i> , 2008, 114, 1167-1172.	0.2	1
137	Singlet-Triplet Dephasing in Asymmetric Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2009, 116, 874-876.	0.2	1
138	Phonon-Induced Pure Dephasing of Two-Electron Spin States in Vertical Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2009, 116, 877-878.	0.2	1
139	Phonon Effects on the Weak Measurement of Charge States in Quantum Dots with a Quantum Point Contact. <i>Acta Physica Polonica A</i> , 2011, 119, 640-643.	0.2	1
140	Tunneling Transfer Protocol in a Quantum Dot Chain Immune to Inhomogeneity. <i>Acta Physica Polonica A</i> , 2011, 120, 859-861.	0.2	1
141	Intermediate Band Formation and Intraband Absorption for Electrons in an Inhomogeneous Chain of Quantum Dots. <i>Acta Physica Polonica A</i> , 2011, 120, 862-864.	0.2	1
142	Collective Spontaneous Emission from a System of Quantum Dots. <i>Acta Physica Polonica A</i> , 2012, 122, 994-996.	0.2	1
143	COHERENT CONTROL AND DECOHERENCE OF CHARGE STATES IN QUANTUM DOTS. , 2008, , .		1
144	Superradiance Effects in the Linear and Nonlinear Optical Response of Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2008, 114, 1355-1360.	0.2	1

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145	Collective Spontaneous Emission from Pairs of Quantum Dots: Long-Range vs. Short-Range Couplings. Acta Physica Polonica A, 2011, 120, 865-867.	0.2	1
146	Statistical physics of finite double-sinh-Gordon systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 253, 139-144.	0.9	0
147	Relaxation and decoherence of orbital and spin degrees of freedom in quantum dots. Radiation Effects and Defects in Solids, 2002, 157, 761-772.	0.4	0
148	Thermodynamics of Molecular Chains with a Local Asymmetric Double-Well Potential. Phase Transitions, 2002, 75, 869-877.	0.6	0
149	On Exciton Decoherence in Quantum Dots. International Journal of Theoretical Physics, 2003, 42, 1065-1073.	0.5	0
150	Phonon Dephasing of the Exciton in InAs/GaAs Quantum Dots. Open Systems and Information Dynamics, 2004, 11, 391-400.	0.5	0
151	Decoherence of the Exciton and Decay of the Excitonic Polaron in Quantum Dots. Physica Scripta, 2005, , 118.	1.2	0
152	Reducing pure dephasing of quantum bits by collective encoding in quantum dot arrays. Journal of Physics: Conference Series, 2006, 30, 41-44.	0.3	0
153	Phonon-induced decoherence of optical spin control in a doped semiconductor quantum dot. , 2007, , .		0
154	Dynamical phonon-induced dephasing of an optically controlled single spin in a quantum dot. Journal of Physics: Conference Series, 2007, 92, 012034.	0.3	0
155	Phonon-induced dephasing of optical spin control in single-charged quantum dots. , 2007, , .		0
156	Impact of traveling phonon wave packets on the optical response of quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 479-482.	0.8	0
157	Collective optical response from quantum dot molecules. Microelectronics Journal, 2009, 40, 505-506.	1.1	0
158	All-optical spin switching in neutral or charged magnetic quantum dots. Journal of Physics: Conference Series, 2010, 210, 012004.	0.3	0
159	Two-Photon Coherent Spin Flip and Polarization Rotation of Excitons in Quantum Dots. Journal of Superconductivity and Novel Magnetism, 2010, 23, 141-143.	0.8	0
160	Spin decoherence of a confined exciton due to one- and two-phonon assisted transitions. , 2010, , .		0
161	Second-order polaron resonances in self-assembled quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1169-1172.	0.8	0
162	Coulomb correlations in quantum dots and their signatures in single dot femtosecond pump-probe signals. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1117-1120.	0.8	0

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163	Publisher's Note: Interband Coulomb coupling in narrow-gap semiconductor nanocrystals: $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle k \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{A} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle$ [Phys. Rev. B <b>91</b> , 195314 (2015)]. Physical Review B, 2015, 91, .		
164	Generating sequences of phonon wave packets by optical excitation of a quantum dot. Journal of Physics: Conference Series, 2015, 647, 012025.	0.3	0
165	Efficiency of the coherent biexciton admixture mechanism for multiple exciton generation in InAs nanocrystals. Semiconductor Science and Technology, 2015, 30, 125009.	1.0	0
166	ASYMMETRIC DOUBLE SINH-GORDON THEORY IN 1+1 DIMENSIONS. , 2002, , .		0
167	ON PHONON MEDIATED DECOHERENCE OF ORBITAL DEGREES OF FREEDOM IN QUANTUM DOT. , 2003, , .		0
168	Phonon-Induced Decoherence in Semiconductor Quantum Dots. , 2005, , 221-248.		0
169	Complete and Partial Loss of Entanglement Due to a Phonon-Assisted Dephasing Process. Acta Physica Polonica A, 2006, 110, 331-336.	0.2	0
170	One and Two Phonon Assisted Transitions between Exciton Spin States in a Quantum Dot. Acta Physica Polonica A, 2008, 114, 1329-1335.	0.2	0
171	Indirect Dephasing Channel for Optically Controlled Spin in a Single Quantum Dot. , 2009, , .		0
172	Carrier Trapping in a Quantum Dash: Optical Signatures. Acta Physica Polonica A, 2012, 122, 997-1000.	0.2	0
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