

Pawel Machnikowski

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165
papers

1,948
citations

23
h-index

38
g-index

180
ext. papers

2,127
ext. citations

2.6
avg, IF

4.97
L-index

#	Paper	IF	Citations
165	Two-photon Rabi oscillations in a single InxGa1-xAs/GaAs quantum dot. <i>Physical Review B</i> , 2006 , 73,	3.3	146
164	Resonant nature of phonon-induced damping of Rabi oscillations in quantum dots. <i>Physical Review B</i> , 2004 , 69,	3.3	89
163	Complete disentanglement by partial pure dephasing. <i>Physical Review A</i> , 2006 , 73,	2.6	82
162	The role of acoustic phonons for Rabi oscillations in semiconductor quantum dots. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 897-904	1.9	73
161	Quantum kinetic theory of phonon-assisted excitation transfer in quantum dot molecules. <i>Physical Review Letters</i> , 2008 , 100, 027401	7.4	69
160	Coherent and incoherent phonon processes in artificial atoms. <i>European Physical Journal D</i> , 2003 , 22, 319-331	1.3	59
159	Long-time dynamics and stationary nonequilibrium of an optically driven strongly confined quantum dot coupled to phonons. <i>Physical Review B</i> , 2011 , 84,	3.3	56
158	Reducing decoherence of the confined exciton state in a quantum dot by pulse-sequence control. <i>Physical Review B</i> , 2005 , 71,	3.3	51
157	Optimal strategy for a single-qubit gate and the trade-off between opposite types of decoherence. <i>Physical Review A</i> , 2004 , 70,	2.6	49
156	Phonon-induced decoherence for a quantum-dot spin qubit operated by Raman passage. <i>Physical Review B</i> , 2005 , 71,	3.3	46
155	Influence of acoustic phonons on the optical control of quantum dots driven by adiabatic rapid passage. <i>Physical Review B</i> , 2012 , 85,	3.3	44
154	Partly noiseless encoding of quantum information in quantum dot arrays against phonon-induced pure dephasing. <i>Physical Review B</i> , 2006 , 73,	3.3	44
153	Exciton spin decay in quantum dots to bright and dark states. <i>Physical Review B</i> , 2007 , 76,	3.3	41
152	Collective fluorescence and decoherence of a few nearly identical quantum dots. <i>Physical Review B</i> , 2007 , 75,	3.3	39
151	Magnetopolaron in a weakly elliptical InAs/GaAs quantum dot. <i>Physical Review B</i> , 2003 , 67,	3.3	37
150	Anharmonicity-induced polaron relaxation in GaAs/InAs quantum dots. <i>Physical Review B</i> , 2002 , 65,	3.3	36
149	Carrier trapping and luminescence polarization in quantum dashes. <i>Physical Review B</i> , 2012 , 85,	3.3	34

148	Change of decoherence scenario and appearance of localization due to reservoir anharmonicity. <i>Physical Review Letters</i> , 2006 , 96, 140405	7.4	34
147	Phonon-assisted relaxation and tunneling in self-assembled quantum dot molecules. <i>Physical Review B</i> , 2010 , 81,	3.3	30
146	Some properties of double-Morse potentials. <i>Journal of Physics A</i> , 1998 , 31, 7541-7559		30
145	Biexciton state preparation in a quantum dot via adiabatic rapid passage: Comparison between two control protocols and impact of phonon-induced dephasing. <i>Physical Review B</i> , 2013 , 87,	3.3	29
144	Unavoidable decoherence in semiconductor quantum dots. <i>Physical Review B</i> , 2005 , 72,	3.3	27
143	Which path? Decoherence in quantum dot experiments. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 351, 251-256	2.3	24
142	Theory of two-photon processes in quantum dots: Coherent evolution and phonon-induced dephasing. <i>Physical Review B</i> , 2008 , 78,	3.3	23
141	A certain double-well potential related to SU(2) symmetry. <i>Journal of Physics A</i> , 1995 , 28, 3757-3762		23
140	Phonon-induced dephasing of singlet-triplet superpositions in double quantum dots without spin-orbit coupling. <i>Physical Review B</i> , 2009 , 80,	3.3	22
139	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	1.8	21
138	Enhanced spontaneous optical emission from inhomogeneous ensembles of quantum dots is induced by short-range coupling. <i>Physical Review B</i> , 2012 , 86,	3.3	21
137	Phonon-assisted tunneling between singlet states in two-electron quantum dot molecules. <i>Physical Review B</i> , 2008 , 78,	3.3	21
136	Coulomb Mediated Hybridization of Excitons in Coupled Quantum Dots. <i>Physical Review Letters</i> , 2016 , 116, 077401	7.4	20
135	Phonon Effects on Population Inversion in Quantum Dots: Resonant, Detuned and Frequency-Swept Excitations. <i>Acta Physica Polonica A</i> , 2012 , 122, 1065-1068	0.6	20
134	Quantum-state transfer in spin chains via isolated resonance of terminal spins. <i>Physical Review A</i> , 2014 , 89,	2.6	19
133	Decoherence-assisted initialization of a resident hole spin polarization in a p-doped semiconductor quantum well. <i>Physical Review B</i> , 2011 , 84,	3.3	19
132	Phonon-assisted relaxation between hole states in quantum dot molecules. <i>Physical Review B</i> , 2012 , 85,	3.3	19
131	Electron states in a double quantum dot with broken axial symmetry. <i>Physical Review B</i> , 2014 , 90,	3.3	18

130	Phonon-assisted radiative recombination of excitons confined in strongly anisotropic nanostructures. <i>Physical Review B</i> , 2014 , 90,	3.3	18
129	Dynamics of quantum dots with strong electron phonon coupling: Correlation expansion vs. path integrals. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 839-842	1.3	18
128	Dephasing in the adiabatic rapid passage in quantum dots: Role of phonon-assisted biexciton generation. <i>Physical Review B</i> , 2012 , 86,	3.3	18
127	Role of Coulomb correlations for femtosecond pump-probe signals obtained from a single quantum dot. <i>Physical Review B</i> , 2011 , 84,	3.3	17
126	Interplay of coupling and superradiant emission in the optical response of a double quantum dot. <i>Physical Review B</i> , 2009 , 80,	3.3	17
125	Quantum-information encoding in dressed qubits. <i>Physical Review A</i> , 2007 , 75,	2.6	17
124	Excitons in quantum dot molecules: Coulomb coupling, spin-orbit effects, and phonon-induced line broadening. <i>Physical Review B</i> , 2013 , 88,	3.3	16
123	Theory of which path dephasing in single electron interference due to trace in conductive environment. <i>Physical Review B</i> , 2006 , 73,	3.3	15
122	Dominant role of the shear strain induced admixture in spin-flip processes in self-assembled quantum dots. <i>Physical Review B</i> , 2018 , 97,	3.3	15
121	Interplay and optimization of decoherence mechanisms in the optical control of spin quantum bits implemented on a semiconductor quantum dot. <i>Physical Review B</i> , 2007 , 76,	3.3	14
120	Theory of nonlinear optical response of ensembles of double quantum dots. <i>Physical Review B</i> , 2009 , 80,	3.3	13
119	Phonon-assisted tunneling of electrons in a quantum well/quantum dot injection structure. <i>Physical Review B</i> , 2015 , 91,	3.3	12
118	Height-driven linear polarization of the surface emission from quantum dashes. <i>Semiconductor Science and Technology</i> , 2012 , 27, 105022	1.8	12
117	Two-phonon polaron resonances in self-assembled quantum dots. <i>Physical Review B</i> , 2010 , 81,	3.3	11
116	Exciton-LO phonon dynamics in InAs/GaAs quantum dots: Effects of zone-edge phonon damping. <i>Physical Review B</i> , 2005 , 71,	3.3	11
115	Hole Subband Mixing and Polarization of Luminescence from Quantum Dashes: A Simple Model. <i>Acta Physica Polonica A</i> , 2011 , 119, 633-636	0.6	11
114	Superradiance and enhanced luminescence from ensembles of a few self-assembled quantum dots. <i>Physical Review B</i> , 2014 , 90,	3.3	10
113	Electronic and optical properties of non-uniformly shaped InAs/InP quantum dashes. <i>Semiconductor Science and Technology</i> , 2012 , 27, 105012	1.8	10

112	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	1.3	10
111	Limited accuracy of conduction band effective mass equations for semiconductor quantum dots. <i>Scientific Reports</i> , 2018 , 8, 2873	4.9	9
110	Vacuum-induced coherence in quantum dot systems. <i>Physical Review B</i> , 2012 , 86,	3.3	9
109	Phonon effects on the radiative recombination of excitons in double quantum dots. <i>Physical Review B</i> , 2011 , 84,	3.3	9
108	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	1.8	9
107	Optomechanical wave mixing by a single quantum dot. <i>Optica</i> , 2021 , 8, 291	8.6	9
106	Theory of the time-resolved Kerr rotation in ensembles of trapped holes in semiconductor nanostructures. <i>Physical Review B</i> , 2010 , 81,	3.3	8
105	Acoustic phonon sideband dynamics during polaron formation in a single quantum dot. <i>Optics Letters</i> , 2020 , 45, 919-922	3	7
104	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, 074303	2.5	7
103	Polaron resonances in two vertically stacked quantum dots. <i>Physical Review B</i> , 2017 , 95,	3.3	6
102	Coulomb matrix elements for the impact ionization process in nanocrystals: An envelope function approach. <i>Physical Review B</i> , 2013 , 87,	3.3	6
101	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	2.5	6
100	Damping of Rabi oscillations in quantum dots due to lattice dynamics. <i>Semiconductor Science and Technology</i> , 2004 , 19, S299-S300	1.8	6
99	Collective Luminescence and Phonon-Induced Processes in Double Quantum Dots. <i>Acta Physica Polonica A</i> , 2009 , 116, 818-825	0.6	6
98	Hyperfine interaction for holes in quantum dots: k _B p model. <i>Physical Review B</i> , 2019 , 100,	3.3	5
97	Decay and persistence of spatial coherence during phonon-assisted relaxation in double quantum dots. <i>Physical Review B</i> , 2015 , 91,	3.3	5
96	Optical initialization of hole spins in p-doped quantum dots: Orientation efficiency and loss of coherence. <i>Physical Review B</i> , 2013 , 87,	3.3	5
95	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	1.3	5

94	Phonon-Assisted Excitation Transfer in Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2007 , 112, 197-202	2.6	5
93	Hole spin-flip transitions in a self-assembled quantum dot. <i>Physical Review B</i> , 2020 , 102,	3.3	4
92	Controllable electron spin dephasing due to phonon state distinguishability in a coupled quantum dot system. <i>Physical Review B</i> , 2018 , 98,	3.3	4
91	Spin dynamics in p-doped semiconductor nanostructures subject to a magnetic field tilted from the Voigt geometry. <i>Physical Review B</i> , 2013 , 88,	3.3	4
90	Indirect spin dephasing via charge-state decoherence in optical control schemes in quantum dots. <i>Physical Review A</i> , 2009 , 79,	2.6	4
89	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	2.3	4
88	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		4
87	Thermodynamics of the asymmetric double sinh-Gordon theory in 1+1 dimensions. <i>Physical Review E</i> , 2001 , 64, 062103	2.4	4
86	Kink dynamics in finite discrete sine-Gordon chains. <i>Physical Review E</i> , 1999 , 59, 2347-2354	2.4	4
85	Multiple Exciton Generation in InAs Nanocrystals. <i>Acta Physica Polonica A</i> , 2008 , 114, 1187-1192	0.6	4
84	Controlling photoluminescence spectra of hBN color centers by selective phonon-assisted excitation: a theoretical proposal. <i>Materials for Quantum Technology</i> , 2021 , 1, 015004		4
83	Spin dynamics and magneto-optical response in charge-neutral tunnel-coupled quantum dots. <i>Semiconductor Science and Technology</i> , 2017 , 32, 045005	1.8	3
82	Decoherence-enhanced quantum measurement of a quantum-dot spin qubit. <i>Physical Review A</i> , 2015 , 91,	2.6	3
81	Time-resolved magneto-Raman study of carrier dynamics in low Landau levels of graphene. <i>Physical Review B</i> , 2019 , 100,	3.3	3
80	Dynamics of dissipative multiple exciton generation in semiconductor nanostructures. <i>Physical Review B</i> , 2013 , 88,	3.3	3
79	Double quantum dot in a quantum dash: Optical properties. <i>Journal of Applied Physics</i> , 2013 , 114, 183108.	2.5	3
78	Interband Coulomb coupling in narrow-gap semiconductor nanocrystals: k \cdot p theory. <i>Physical Review B</i> , 2015 , 91,	3.3	3
77	Self-induced coherence in a single pair of quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 847-850	1.3	3

76	Radiative and phonon-induced dephasing in double quantum dots. <i>Journal of Physics: Conference Series</i> , 2009 , 193, 012136	0.3	3
75	Polaron contributions to the biexciton binding energies in self-assembled quantum dots. <i>Physical Review B</i> , 2011 , 83,	3.3	3
74	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	2.3	3
73	Four-Wave Mixing Spectroscopy of Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2007 , 112, 167-172	0.6	3
72	Phonon-Assisted Tunneling of an Electron in a Strained Self-Assembled Quantum Dot Molecule. <i>Acta Physica Polonica A</i> , 2008 , 114, 1285-1291	0.6	3
71	Local field effects in ultrafast light-matter interaction measured by pump-probe spectroscopy of monolayer MoSe ₂ . <i>Nanophotonics</i> , 2021 , 10, 2717-2728	6.3	3
70	Photon-photon correlation statistics in the collective emission from ensembles of self-assembled quantum dots. <i>Physical Review B</i> , 2016 , 93,	3.3	2
69	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	0.6	2
68	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	1.8	2
67	The Phonon-Assisted Radiative Recombination of Excitons Confined in InAs Quantum Dashes. <i>Acta Physica Polonica A</i> , 2013 , 124, 813-816	0.6	2
66	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		2
65	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		2
64	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		2
63	Publisher's Note: Complete disentanglement by partial pure dephasing [Phys. Rev. A73, 022313 (2006)]. <i>Physical Review A</i> , 2006 , 73,	2.6	2
62	Dynamical dephasing of optically controlled charge qubits in quantum dots. <i>Journal of Physics: Conference Series</i> , 2006 , 30, 25-29	0.3	2
61	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
60	Phonon-induced disentanglement of confined excitons. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 2261-2265	1.3	2
59	Nontopological solitary waves in continuous and discrete one-component molecular chains. <i>Physical Review E</i> , 2001 , 63, 016601	2.4	2

58	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	0.6	2
57	Carrier Spin Dephasing during Spin-Preserving Tunneling in Coupled Quantum Dots. <i>Acta Physica Polonica A</i> , 2016 , 130, 1165-1168	0.6	2
56	Optically driving the radiative Auger transition. <i>Nature Communications</i> , 2021 , 12, 6575	17.4	2
55	Remote Phonon Control of Quantum Dots and Other Artificial Atoms. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2000128	4.3	2
54	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	2.9	2
53	Resonance-fluorescence spectral dynamics of an acoustically modulated quantum dot. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
52	Diffusion of excitations and power-law localization in strongly disordered systems with long-range coupling. <i>Physical Review B</i> , 2020 , 102,	3.3	1
51	Phonon influence on the measurement of spin states in double quantum dots using the quantum point contact. <i>Physical Review B</i> , 2013 , 88,	3.3	1
50	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		1
49	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
48	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	0.4	1
47	Spin-Based Quantum Information Processing in Magnetic Quantum Dots. <i>Open Systems and Information Dynamics</i> , 2005 , 12, 133-141	0.4	1
46	Manifestation of fundamental quantum complementarities in time-domain interference experiments with quantum dots: A theoretical analysis. <i>Physical Review B</i> , 2005 , 72,	3.3	1
45	One-dimensional broken translation symmetry and pseudo-Goldstone excitation. <i>Journal of Physics A</i> , 2002 , 35, L101-L104		1
44	Phonon-Induced Dephasing of Optically Driven Exciton States in Quantum Dots: Spectral Interpretation. <i>Acta Physica Polonica A</i> , 2005 , 108, 761-767	0.6	1
43	Collective Encoding of Quantum Information in a Quantum Dot Register. <i>Acta Physica Polonica A</i> , 2006 , 110, 195-200	0.6	1
42	Phonon-Induced Dephasing in Quantum Dots - Interpretation in Terms of Information Leakage. <i>Acta Physica Polonica A</i> , 2006 , 110, 325-330	0.6	1
41	Two-Photon Coherent Polarization Flipping of Confined Excitons. <i>Acta Physica Polonica A</i> , 2007 , 112, 289-293	0.6	1

40	Second-Order Resonant Polaron in a Self-Assembled Quantum Dot. <i>Acta Physica Polonica A</i> , 2008 , 114, 1139-1144	0.6	1
39	Calculation of Anharmonic Coupling Constants between Phonon Modes in GaAs. <i>Acta Physica Polonica A</i> , 2008 , 114, 1167-1172	0.6	1
38	Singlet-Triplet Dephasing in Asymmetric Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2009 , 116, 874-876	0.6	1
37	Phonon-Induced Pure Dephasing of Two-Electron Spin States in Vertical Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2009 , 116, 877-878	0.6	1
36	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	0.6	1
35	Tunneling Transfer Protocol in a Quantum Dot Chain Immune to Inhomogeneity. <i>Acta Physica Polonica A</i> , 2011 , 120, 859-861	0.6	1
34	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	0.6	1
33	Collective Spontaneous Emission from a System of Quantum Dots. <i>Acta Physica Polonica A</i> , 2012 , 122, 994-996	0.6	1
32	Destructive Photon Echo Formation in Six-Wave Mixing Signals of a MoSe Monolayer. <i>Advanced Science</i> , 2021 , e2103813	13.6	1
31	Collective Spontaneous Emission from Pairs of Quantum Dots: Long-Range vs. Short-Range Couplings. <i>Acta Physica Polonica A</i> , 2011 , 120, 865-867	0.6	1
30	Phonon-assisted carrier tunneling with hyperfine-induced spin flip in coupled quantum dot systems. <i>Physical Review B</i> , 2021 , 104,	3.3	1
29	Photon scattering from a quantum acoustically modulated two-level system. <i>AVS Quantum Science</i> , 2022 , 4, 011403	10.3	1
28	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
27	Phonon-assisted relaxation between triplet and singlet states in a self-assembled double quantum dot. <i>Scientific Reports</i> , 2021 , 11, 15256	4.9	0
26	Generating sequences of phonon wave packets by optical excitation of a quantum dot. <i>Journal of Physics: Conference Series</i> , 2015 , 647, 012025	0.3	
25	Efficiency of the coherent biexciton admixture mechanism for multiple exciton generation in InAs nanocrystals. <i>Semiconductor Science and Technology</i> , 2015 , 30, 125009	1.8	
24	Phonon-Assisted Processes and Spontaneous Emission in Double Quantum Dots. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014 , 281-331	0.3	
23	Second-order polaron resonances in self-assembled quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1169-1172		

- 22 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
- 21 Theoretical study of phononassisted singlet-singlet relaxation in two-electron semiconductor quantum dot molecules. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2009**, 6, 474-478
- 20 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
- 19 Collective optical response from quantum dot molecules. *Microelectronics Journal*, **2009**, 40, 505-506 1.8
- 18 All-optical spin switching in neutral or charged magnetic quantum dots. *Journal of Physics: Conference Series*, **2010**, 210, 012004 0.3
- 17 Two-Photon Coherent Spin Flip and Polarization Rotation of Excitons in Quantum Dots. *Journal of Superconductivity and Novel Magnetism*, **2010**, 23, 141-143 1.5
- 16 Dynamical phonon-induced dephasing of an optically controlled single spin in a quantum dot. *Journal of Physics: Conference Series*, **2007**, 92, 012034 0.3
- 15 Reducing pure dephasing of quantum bits by collective encoding in quantum dot arrays. *Journal of Physics: Conference Series*, **2006**, 30, 41-44 0.3
- 14 Phonon Dephasing of the Exciton in InAs/GaAs Quantum Dots. *Open Systems and Information Dynamics*, **2004**, 11, 391-400 0.4
- 13 On Exciton Decoherence in Quantum Dots. *International Journal of Theoretical Physics*, **2003**, 42, 1065-1073 0.7
- 12 Relaxation and decoherence of orbital and spin degrees of freedom in quantum dots. *Radiation Effects and Defects in Solids*, **2002**, 157, 761-772 0.9
- 11 Thermodynamics of Molecular Chains with a Local Asymmetric Double-Well Potential. *Phase Transitions*, **2002**, 75, 869-877 1.3
- 10 Statistical physics of finite double-sinh-Gordon systems. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1999**, 253, 139-144 2.3
- 9 Fast Control of Quantum States in Quantum Dots: Limits due to Decoherence **2005**, 301-315
- 8 Exploiting the Non-Markovian Nature of Carrier-Phonon Dynamics: Multi-Pulse Control of Decoherence in Quantum Dots **2006**, 49-53
- 7 Phonon-Induced Decoherence in Semiconductor Quantum Dots **2005**, 221-248
- 6 Complete and Partial Loss of Entanglement Due to a Phonon-Assisted Dephasing Process. *Acta Physica Polonica A*, **2006**, 110, 331-336 0.6
- 5 Nonlinear Oscillations in New Anharmonic Potential. *Acta Physica Polonica A*, **1996**, 89, 481-493 0.6

- 4 Accuracy of Effective Mass Equation for a Single and Double Cylindrical Quantum Dot. *Acta Physica Polonica A*, **2017**, 132, 376-379 0.6
- 3 One and Two Phonon Assisted Transitions between Exciton Spin States in a Quantum Dot. *Acta Physica Polonica A*, **2008**, 114, 1329-1335 0.6
- 2 Superradiance Effects in the Linear and Nonlinear Optical Response of Quantum Dot Molecules. *Acta Physica Polonica A*, **2008**, 114, 1355-1360 0.6
- 1 Carrier Trapping in a Quantum Dash: Optical Signatures. *Acta Physica Polonica A*, **2012**, 122, 997-1000 0.6