

Pawel Machnikowski

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Photon scattering from a quantum acoustically modulated two-level system. <i>AVS Quantum Science</i> , 2022 , 4, 011403	10.3	1
164	Optically driving the radiative Auger transition. <i>Nature Communications</i> , 2021 , 12, 6575	17.4	2
163	Destructive Photon Echo Formation in Six-Wave Mixing Signals of a MoSe Monolayer. <i>Advanced Science</i> , 2021 , e2103813	13.6	1
162	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
161	Optomechanical wave mixing by a single quantum dot. <i>Optica</i> , 2021 , 8, 291	8.6	9
160	Remote Phonon Control of Quantum Dots and Other Artificial Atoms. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2000128	4.3	2
159	Phonon-assisted carrier tunneling with hyperfine-induced spin flip in coupled quantum dot systems. <i>Physical Review B</i> , 2021 , 104,	3.3	1
158	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
157	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
156	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
155	Resonance-fluorescence spectral dynamics of an acoustically modulated quantum dot. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
154	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
153	Hole spin-flip transitions in a self-assembled quantum dot. <i>Physical Review B</i> , 2020 , 102,	3.3	4
152	Acoustic phonon sideband dynamics during polaron formation in a single quantum dot. <i>Optics Letters</i> , 2020 , 45, 919-922	3	7
151	Hyperfine interaction for holes in quantum dots: k \cdot p model. <i>Physical Review B</i> , 2019 , 100,	3.3	5
150	Time-resolved magneto-Raman study of carrier dynamics in low Landau levels of graphene. <i>Physical Review B</i> , 2019 , 100,	3.3	3
149	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

148	Limited accuracy of conduction band effective mass equations for semiconductor quantum dots. <i>Scientific Reports</i> , 2018 , 8, 2873	4.9	9
147	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
146	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
145	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
144	Polaron resonances in two vertically stacked quantum dots. <i>Physical Review B</i> , 2017 , 95,	3.3	6
143	Accuracy of Effective Mass Equation for a Single and Double Cylindrical Quantum Dot. <i>Acta Physica Polonica A</i> , 2017 , 132, 376-379	0.6	
142	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
141	Coulomb Mediated Hybridization of Excitons in Coupled Quantum Dots. <i>Physical Review Letters</i> , 2016 , 116, 077401	7.4	20
140	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
139	Carrier Spin Dephasing during Spin-Preserving Tunneling in Coupled Quantum Dots. <i>Acta Physica Polonica A</i> , 2016 , 130, 1165-1168	0.6	2
138	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
137	Decoherence-enhanced quantum measurement of a quantum-dot spin qubit. <i>Physical Review A</i> , 2015 , 91,	2.6	3
136	Decay and persistence of spatial coherence during phonon-assisted relaxation in double quantum dots. <i>Physical Review B</i> , 2015 , 91,	3.3	5
135	Interband Coulomb coupling in narrow-gap semiconductor nanocrystals: $k\Gamma$ theory. <i>Physical Review B</i> , 2015 , 91,	3.3	3
134	Phonon-assisted tunneling of electrons in a quantum well/quantum dot injection structure. <i>Physical Review B</i> , 2015 , 91,	3.3	12
133	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	
132	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	
131	Quantum-state transfer in spin chains via isolated resonance of terminal spins. <i>Physical Review A</i> , 2014 , 89,	2.6	19

130	Electron states in a double quantum dot with broken axial symmetry. <i>Physical Review B</i> , 2014 , 90,	3-3	18
129	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
128	Superradiance and enhanced luminescence from ensembles of a few self-assembled quantum dots. <i>Physical Review B</i> , 2014 , 90,	3-3	10
127	Phonon-assisted radiative recombination of excitons confined in strongly anisotropic nanostructures. <i>Physical Review B</i> , 2014 , 90,	3-3	18
126	Phonon-Assisted Processes and Spontaneous Emission in Double Quantum Dots. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014 , 281-331	0.3	
125	Dynamics of dissipative multiple exciton generation in semiconductor nanostructures. <i>Physical Review B</i> , 2013 , 88,	3-3	3
124	Coulomb matrix elements for the impact ionization process in nanocrystals: An envelope function approach. <i>Physical Review B</i> , 2013 , 87,	3-3	6
123	Double quantum dot in a quantum dash: Optical properties. <i>Journal of Applied Physics</i> , 2013 , 114, 183108.5		3
122	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
121	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
120	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
119	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
118	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
117	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
116	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
115	Height-driven linear polarization of the surface emission from quantum dashes. <i>Semiconductor Science and Technology</i> , 2012 , 27, 105022	1.8	12
114	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
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	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
111	Vacuum-induced coherence in quantum dot systems. <i>Physical Review B</i> , 2012 , 86,	3.3	9
110	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
109	Phonon-assisted relaxation between hole states in quantum dot molecules. <i>Physical Review B</i> , 2012 , 85,	3.3	19
108	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
107	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
106	Carrier trapping and luminescence polarization in quantum dashes. <i>Physical Review B</i> , 2012 , 85,	3.3	34
105	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
104	Collective Spontaneous Emission from a System of Quantum Dots. <i>Acta Physica Polonica A</i> , 2012 , 122, 994-996	0.6	1
103	Carrier Trapping in a Quantum Dash: Optical Signatures. <i>Acta Physica Polonica A</i> , 2012 , 122, 997-1000	0.6	
102	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
101	Phonon effects on the radiative recombination of excitons in double quantum dots. <i>Physical Review B</i> , 2011 , 84,	3.3	9
100	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
99	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
98	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
97	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
96	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		
95	Coulomb correlations in quantum dots and their signatures in single dot femtosecond pump-probe signals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1117-1120		

94	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
93	Polaron contributions to the biexciton binding energies in self-assembled quantum dots. <i>Physical Review B</i> , 2011 , 83,	3.3	3
92	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
91	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
90	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
89	Tunneling Transfer Protocol in a Quantum Dot Chain Immune to Inhomogeneity. <i>Acta Physica Polonica A</i> , 2011 , 120, 859-861	0.6	1
88	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
87	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
86	Two-phonon polaron resonances in self-assembled quantum dots. <i>Physical Review B</i> , 2010 , 81,	3.3	11
85	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
84	Phonon-assisted relaxation and tunneling in self-assembled quantum dot molecules. <i>Physical Review B</i> , 2010 , 81,	3.3	30
83	All-optical spin switching in neutral or charged magnetic quantum dots. <i>Journal of Physics: Conference Series</i> , 2010 , 210, 012004	0.3	
82	Two-Photon Coherent Spin Flip and Polarization Rotation of Excitons in Quantum Dots. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010 , 23, 141-143	1.5	
81	Theory of nonlinear optical response of ensembles of double quantum dots. <i>Physical Review B</i> , 2009 , 80,	3.3	13
80	Indirect spin dephasing via charge-state decoherence in optical control schemes in quantum dots. <i>Physical Review A</i> , 2009 , 79,	2.6	4
79	Radiative and phonon-induced dephasing in double quantum dots. <i>Journal of Physics: Conference Series</i> , 2009 , 193, 012136	0.3	3
78	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
77	Theoretical study of phononassisted 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		

76	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
75	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
74	Impact of traveling phonon wave packets on the optical response of quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 479-482		
73	Collective optical response from quantum dot molecules. <i>Microelectronics Journal</i> , 2009 , 40, 505-506	1.8	
72	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
71	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
70	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
69	Collective Luminescence and Phonon-Induced Processes in Double Quantum Dots. <i>Acta Physica Polonica A</i> , 2009 , 116, 818-825	0.6	6
68	Singlet-Triplet Dephasing in Asymmetric Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2009 , 116, 874-876	0.6	1
67	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
66	Phonon-assisted tunneling between singlet states in two-electron quantum dot molecules. <i>Physical Review B</i> , 2008 , 78,	3.3	21
65	Quantum kinetic theory of phonon-assisted excitation transfer in quantum dot molecules. <i>Physical Review Letters</i> , 2008 , 100, 027401	7.4	69
64	Theory of two-photon processes in quantum dots: Coherent evolution and phonon-induced dephasing. <i>Physical Review B</i> , 2008 , 78,	3.3	23
63	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
62	Second-Order Resonant Polaron in a Self-Assembled Quantum Dot. <i>Acta Physica Polonica A</i> , 2008 , 114, 1139-1144	0.6	1
61	Calculation of Anharmonic Coupling Constants between Phonon Modes in GaAs. <i>Acta Physica Polonica A</i> , 2008 , 114, 1167-1172	0.6	1
60	Multiple Exciton Generation in InAs Nanocrystals. <i>Acta Physica Polonica A</i> , 2008 , 114, 1187-1192	0.6	4
59	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

58	One and Two Phonon Assisted Transitions between Exciton Spin States in a Quantum Dot. <i>Acta Physica Polonica A</i> , 2008 , 114, 1329-1335	0.6	
57	Superradiance Effects in the Linear and Nonlinear Optical Response of Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2008 , 114, 1355-1360	0.6	
56	Exciton spin decay in quantum dots to bright and dark states. <i>Physical Review B</i> , 2007 , 76,	3.3	41
55	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
54	Dynamical phonon-induced dephasing of an optically controlled single spin in a quantum dot. <i>Journal of Physics: Conference Series</i> , 2007 , 92, 012034	0.3	
53	Quantum-information encoding in dressed qubits. <i>Physical Review A</i> , 2007 , 75,	2.6	17
52	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
51	Collective fluorescence and decoherence of a few nearly identical quantum dots. <i>Physical Review B</i> , 2007 , 75,	3.3	39
50	Four-Wave Mixing Spectroscopy of Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2007 , 112, 167-172	0.6	3
49	Phonon-Assisted Excitation Transfer in Quantum Dot Molecules. <i>Acta Physica Polonica A</i> , 2007 , 112, 197-202	2.6	5
48	Two-Photon Coherent Polarization Flipping of Confined Excitons. <i>Acta Physica Polonica A</i> , 2007 , 112, 289-293	0.6	1
47	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
46	Complete disentanglement by partial pure dephasing. <i>Physical Review A</i> , 2006 , 73,	2.6	82
45	Publisher's Note: Complete disentanglement by partial pure dephasing [Phys. Rev. A73, 022313 (2006)]. <i>Physical Review A</i> , 2006 , 73,	2.6	2
44	Change of decoherence scenario and appearance of localization due to reservoir anharmonicity. <i>Physical Review Letters</i> , 2006 , 96, 140405	7.4	34
43	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
42	Two-photon Rabi oscillations in a single $\text{In}_x\text{Ga}_{1-x}\text{As}$ quantum dot. <i>Physical Review B</i> , 2006 , 73,	3.3	146
41	Dynamical dephasing of optically controlled charge qubits in quantum dots. <i>Journal of Physics: Conference Series</i> , 2006 , 30, 25-29	0.3	2

40	Reducing pure dephasing of quantum bits by collective encoding in quantum dot arrays. <i>Journal of Physics: Conference Series</i> , 2006 , 30, 41-44	0.3	
39	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
38	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
37	Phonon-induced disentanglement of confined excitons. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 2261-2265	1.3	2
36	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
35	Collective Encoding of Quantum Information in a Quantum Dot Register. <i>Acta Physica Polonica A</i> , 2006 , 110, 195-200	0.6	1
34	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
33	Exploiting the Non-Markovian Nature of Carrier-Phonon Dynamics: Multi-Pulse Control of Decoherence in Quantum Dots 2006 , 49-53		
32	Complete and Partial Loss of Entanglement Due to a Phonon-Assisted Dephasing Process. <i>Acta Physica Polonica A</i> , 2006 , 110, 331-336	0.6	
31	Phonon-induced decoherence for a quantum-dot spin qubit operated by Raman passage. <i>Physical Review B</i> , 2005 , 71,	3.3	46
30	Unavoidable decoherence in semiconductor quantum dots. <i>Physical Review B</i> , 2005 , 72,	3.3	27
29	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
28	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
27	Spin-Based Quantum Information Processing in Magnetic Quantum Dots. <i>Open Systems and Information Dynamics</i> , 2005 , 12, 133-141	0.4	1
26	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
25	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
24	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
23	Fast Control of Quantum States in Quantum Dots: Limits due to Decoherence 2005 , 301-315		

22 Phonon-Induced Decoherence in Semiconductor Quantum Dots **2005**, 221-248

21	Damping of Rabi oscillations in quantum dots due to lattice dynamics. <i>Semiconductor Science and Technology</i> , 2004 , 19, S299-S300	1.8	6
20	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
19	Resonant nature of phonon-induced damping of Rabi oscillations in quantum dots. <i>Physical Review B</i> , 2004 , 69,	3.3	89
18	Phonon Dephasing of the Exciton in InAs/GaAs Quantum Dots. <i>Open Systems and Information Dynamics</i> , 2004 , 11, 391-400	0.4	
17	Coherent and incoherent phonon processes in artificial atoms. <i>European Physical Journal D</i> , 2003 , 22, 319-331	1.3	59
16	On Exciton Decoherence in Quantum Dots. <i>International Journal of Theoretical Physics</i> , 2003 , 42, 1065-1073	0.7	
15	Magnetopolaron in a weakly elliptical InAs/GaAs quantum dot. <i>Physical Review B</i> , 2003 , 67,	3.3	37
14	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
13	Relaxation and decoherence of orbital and spin degrees of freedom in quantum dots. <i>Radiation Effects and Defects in Solids</i> , 2002 , 157, 761-772	0.9	
12	Thermodynamics of Molecular Chains with a Local Asymmetric Double-Well Potential. <i>Phase Transitions</i> , 2002 , 75, 869-877	1.3	
11	One-dimensional broken translation symmetry and pseudo-Goldstone excitation. <i>Journal of Physics A</i> , 2002 , 35, L101-L104		1
10	Anharmonicity-induced polaron relaxation in GaAs/InAs quantum dots. <i>Physical Review B</i> , 2002 , 65,	3.3	36
9	Thermodynamics of the asymmetric double sinh-Gordon theory in 1+1 dimensions. <i>Physical Review E</i> , 2001 , 64, 062103	2.4	4
8	Nontopological solitary waves in continuous and discrete one-component molecular chains. <i>Physical Review E</i> , 2001 , 63, 016601	2.4	2
7	Kink dynamics in finite discrete sine-Gordon chains. <i>Physical Review E</i> , 1999 , 59, 2347-2354	2.4	4
6	Statistical physics of finite double-sinh-Gordon systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999 , 253, 139-144	2.3	
5	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

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|---|---|-----|----|
| 4 | Some properties of double-Morse potentials. <i>Journal of Physics A</i> , 1998 , 31, 7541-7559 | | 30 |
| 3 | 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 |
| 2 | Nonlinear Oscillations in New Anharmonic Potential. <i>Acta Physica Polonica A</i> , 1996 , 89, 481-493 | 0.6 | |
| 1 | A certain double-well potential related to SU(2) symmetry. <i>Journal of Physics A</i> , 1995 , 28, 3757-3762 | | 23 |