

Tilmann Kuhn

List of Publications by Year in descending order

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305
papers

7,358
citations

61984

43
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74163

75
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315
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315
docs citations

315
times ranked

3904
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Single-Photon Emitters in Layered Van der Waals Materials. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, . | 1.5 | 19 |
| 2 | Photon scattering from a quantum acoustically modulated two-level system. <i>AVS Quantum Science</i> , 2022, 4, . | 4.9 | 3 |
| 3 | Transfer of Trionic Coherence upon Femtosecond Hole Relaxation in a Single CdSe/ZnSe Quantum Dot. , 2021, , . | | 0 |
| 4 | Dark exciton preparation in a quantum dot by a longitudinal light field tuned to higher exciton states. <i>Physical Review Research</i> , 2021, 3, . | 3.6 | 7 |
| 5 | Femtosecond Transfer and Manipulation of Persistent Hot-Trion Coherence in a Single CdSe/ZnSe Quantum Dot. <i>Physical Review Letters</i> , 2021, 126, 067402. | 7.8 | 11 |
| 6 | 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 | 4 |
| 7 | Optomechanical wave mixing by a single quantum dot. <i>Optica</i> , 2021, 8, 291. | 9.3 | 24 |
| 8 | Ultrafast Detection and Manipulation of a Persistent Trion Coherence in a Single CdSe/ZnSe Quantum Dot. , 2021, , . | | 0 |
| 9 | Local field effects in ultrafast light-matter interaction measured by pump-probe spectroscopy of monolayer MoSe_2 . <i>Nanophotonics</i> , 2021, 10, 2717-2728. | 6.0 | 9 |
| 10 | Resonance-fluorescence spectral dynamics of an acoustically modulated quantum dot. <i>Physical Review Research</i> , 2021, 3, . | 3.6 | 12 |
| 11 | Controlling photoluminescence spectra of hBN color centers by selective phonon-assisted excitation: a theoretical proposal. <i>Materials for Quantum Technology</i> , 2021, 1, 015004. | 3.1 | 8 |
| 12 | Destructive Photon Echo Formation in Six-Wave Mixing Signals of a MoSe_2 Monolayer. <i>Advanced Science</i> , 2021, , 2103813. | 11.2 | 5 |
| 13 | Comparison of the semiclassical and quantum optical field dynamics in a pulse-excited optical cavity with a finite number of quantum emitters. <i>Physical Review B</i> , 2021, 104, . | 3.2 | 2 |
| 14 | Electron Dynamics in a Two-Dimensional Nanobubble: A Two-Level System Based on Spatial Density. <i>Nano Letters</i> , 2021, 21, 9896-9902. | 9.1 | 3 |
| 15 | Phonon signatures in spectra of exciton polaritons in transition metal dichalcogenides. <i>Physical Review B</i> , 2021, 104, . | 3.2 | 9 |
| 16 | Selection rules for the excitation of quantum dots by spatially structured light beams: Application to the reconstruction of higher excited exciton wave functions. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 1 |
| 17 | Semiclassical modeling of coupled quantum-dot-cavity systems: From polaritonlike dynamics to Rabi oscillations. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 5 |
| 18 | Four-wave mixing dynamics of a strongly coupled quantum-dot-microcavity system driven by up to 20 photons. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 7 |

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|----|--|-----|-----------|
| 19 | Entropy Dynamics of Phonon Quantum States Generated by Optical Excitation of a Two-Level System. <i>Entropy</i> , 2020, 22, 286. | 2.2 | 3 |
| 20 | Theory of the absorption line shape in monolayers of transition metal dichalcogenides. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 27 |
| 21 | Phonon-mediated exciton capture in Mo-based transition metal dichalcogenides. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 3 |
| 22 | Acoustic phonon sideband dynamics during polaron formation in a single quantum dot. <i>Optics Letters</i> , 2020, 45, 919. | 3.3 | 16 |
| 23 | Persistent intraband quantum beats and femtosecond hole relaxation in a single charged CdSe/ZnSe quantum dot. , 2020, , . | | 0 |
| 24 | Influence of excited state decay and dephasing on phonon quantum state preparation. <i>Physical Review B</i> , 2019, 100, . | 3.2 | 12 |
| 25 | Effective detection of spatio-temporal carrier dynamics by carrier capture. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 28LT01. | 1.8 | 3 |
| 26 | Distinctive characteristics of carrier-phonon interactions in optically driven semiconductor quantum dots. <i>Advances in Physics: X</i> , 2019, 4, 1655478. | 4.1 | 37 |
| 27 | Phonon-Induced Enhancement of Photon Entanglement in Quantum Dot-Cavity Systems. <i>Physical Review Letters</i> , 2019, 123, 137401. | 7.8 | 24 |
| 28 | Spatiotemporal dynamics of Coulomb-correlated carriers in semiconductors. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 4 |
| 29 | Reexamination of Bessel beams: A generalized scheme to derive optical vortices. <i>Physical Review A</i> , 2019, 99, . | 2.5 | 18 |
| 30 | Phonon-assisted emission and absorption of individual color centers in hexagonal boron nitride. <i>2D Materials</i> , 2019, 6, 035006. | 4.4 | 56 |
| 31 | From strong to weak temperature dependence of the two-photon entanglement resulting from the biexciton cascade inside a cavity. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 17 |
| 32 | Ultrafast analysis and control of sub-nanosecond intraband coherence in single CdSe/ZnSe quantum dots. , 2019, , . | | 0 |
| 33 | Influence of the quantum dot geometry on p -shell transitions in differently charged quantum dots. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 14 |
| 34 | Strain Control of Exciton-Phonon Coupling in Atomically Thin Semiconductors. <i>Nano Letters</i> , 2018, 18, 1751-1757. | 9.1 | 177 |
| 35 | Charge and spin control of ultrafast electron and hole dynamics in single CdSe/ZnSe quantum dots. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 19 |
| 36 | Dynamical vanishing of the order parameter in a confined Bardeen-Cooper-Schrieffer Fermi gas after an interaction quench. <i>Physical Review A</i> , 2018, 97, . | 2.5 | 15 |

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|----|--|-----|-----------|
| 37 | Spatial control of carrier capture in two-dimensional materials: Beyond energy selection rules. Physical Review B, 2018, 98, . | 3.2 | 9 |
| 38 | Persistent oscillations of the order parameter and interaction quench phase diagram for a confined Bardeen-Cooper-Schrieffer Fermi gas. Physical Review A, 2018, 98, . | 2.5 | 19 |
| 39 | Coherent phonon lasing in a thermal quantum nanomachine. Physical Review A, 2018, 98, . | 2.5 | 2 |
| 40 | Coulomb effects on the photoexcited quantum dynamics of electrons in a plasmonic nanosphere. Physical Review B, 2018, 98, . | 3.2 | 3 |
| 41 | Comparison of different concurrences characterizing photon pairs generated in the biexciton cascade in quantum dots coupled to microcavities. Physical Review B, 2018, 98, . | 3.2 | 22 |
| 42 | Rabi oscillations of a quantum dot exciton coupled to acoustic phonons: coherence and population readout. Optica, 2018, 5, 1442. | 9.3 | 19 |
| 43 | Formulation of the twisted-light-matter interaction at the phase singularity: Beams with strong magnetic fields. Physical Review A, 2017, 95, . | 2.5 | 18 |
| 44 | Stationary Phonon Squeezing by Optical Polaron Excitation. Physical Review Letters, 2017, 118, 097401. | 7.8 | 5 |
| 45 | Picosecond Control of Quantum Dot Laser Emission by Coherent Phonons. Physical Review Letters, 2017, 118, 133901. | 7.8 | 23 |
| 46 | Unexpectedly marginal effect of electronic correlations on ultrafast demagnetization after femtosecond laser-pulse excitation. Physical Review B, 2017, 95, . | 3.2 | 1 |
| 47 | Coherent and robust high-fidelity generation of a biexciton in a quantum dot by rapid adiabatic passage. Physical Review B, 2017, 95, . | 3.2 | 41 |
| 48 | Demonstrating the decoupling regime of the electron-phonon interaction in a quantum dot using chirped optical excitation. Physical Review B, 2017, 95, . | 3.2 | 31 |
| 49 | Systematic study of the influence of coherent phonon wave packets on the lasing properties of a quantum dot ensemble. New Journal of Physics, 2017, 19, 073001. | 2.9 | 7 |
| 50 | Lindblad approach to spatiotemporal quantum dynamics of phonon-induced carrier capture processes. Physical Review B, 2017, 95, . | 3.2 | 12 |
| 51 | Phonon-assisted dark exciton preparation in a quantum dot. Physical Review B, 2017, 95, . | 3.2 | 7 |
| 52 | Pure Goldstone mode in the quench dynamics of a confined ultracold Fermi gas in the BCS-BEC crossover regime. Physical Review A, 2017, 96, . | 2.5 | 12 |
| 53 | Exploring coherence of individual excitons in InAs quantum dots embedded in natural photonic defects: Influence of the excitation intensity. Physical Review B, 2017, 96, . | 3.2 | 9 |
| 54 | Spectral characteristics of the coherent dynamics of the order parameter in superconducting nanorods. Physica C: Superconductivity and Its Applications, 2017, 533, 133-136. | 1.2 | 3 |

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|----|--|------|-----------|
| 55 | Phonon impact on optical control schemes of quantum dots: Role of quantum dot geometry and symmetry. <i>Physical Review B</i> , 2017, 96, . | 3.2 | 26 |
| 56 | Control of quantum dot laser emission by coherent phonon wave packets. <i>Journal of Physics: Conference Series</i> , 2017, 906, 012025. | 0.4 | 0 |
| 57 | Magnetic-optical transitions induced by twisted light in quantum dots. <i>Journal of Physics: Conference Series</i> , 2017, 906, 012014. | 0.4 | 1 |
| 58 | Spatio-Temporal Dynamics of Carrier Capture Processes: Simulation of Optical Signals. <i>Acta Physica Polonica A</i> , 2017, 132, 372-375. | 0.5 | 5 |
| 59 | Nanoscale Positioning of Single-Photon Emitters in Atomically Thin WSe_2 . <i>Advanced Materials</i> , 2016, 28, 7101-7105. | 21.0 | 162 |
| 60 | Impact of Phonons on Dephasing of Individual Excitons in Deterministic Quantum Dot Microlenses. <i>ACS Photonics</i> , 2016, 3, 2461-2466. | 6.6 | 35 |
| 61 | Duality and reciprocity of fluctuation-dissipation relations in conductors. <i>Physical Review E</i> , 2016, 94, 032112. | 2.1 | 3 |
| 62 | Quantum dynamics of optical phonons generated by optical excitation of a quantum dot. <i>Journal of Computational Electronics</i> , 2016, 15, 1158-1169. | 2.5 | 13 |
| 63 | Single-Photon Emitters: Nanoscale Positioning of Single-Photon Emitters in Atomically Thin WSe_2 (<i>Adv. Mater.</i> 33/2016). <i>Advanced Materials</i> , 2016, 28, 7032-7032. | 21.0 | 3 |
| 64 | Dynamics of excitons in individual InAs quantum dots revealed in four-wave mixing spectroscopy. <i>Optica</i> , 2016, 3, 377. | 9.3 | 34 |
| 65 | Mutual synchronization of nanoconstriction-based spin Hall nano-oscillators through evanescent and propagating spin waves. <i>Physical Review B</i> , 2016, 93, . | 3.2 | 39 |
| 66 | Coulomb Mediated Hybridization of Excitons in Coupled Quantum Dots. <i>Physical Review Letters</i> , 2016, 116, 077401. | 7.8 | 25 |
| 67 | Fast and selective phonon-assisted state preparation of a quantum dot by adiabatic undressing. <i>Physical Review B</i> , 2016, 94, . | 3.2 | 30 |
| 68 | The dual property of number and velocity fluctuations of charge carriers in a macroscopic conductor under thermodynamic equilibrium conditions. <i>Lithuanian Journal of Physics</i> , 2016, 55, . | 0.4 | 0 |
| 69 | Direct optical state preparation of the dark exciton in a quantum dot. <i>Physical Review B</i> , 2015, 92, . | 3.2 | 17 |
| 70 | Generating sequences of phonon wave packets by optical excitation of a quantum dot. <i>Journal of Physics: Conference Series</i> , 2015, 647, 012025. | 0.4 | 0 |
| 71 | Optical control of exciton and spin states in a quantum dot by excitation with twisted light. <i>Journal of Physics: Conference Series</i> , 2015, 647, 012012. | 0.4 | 4 |
| 72 | Squeezed Phonon Wave Packet Generation by Optical Manipulation of a Quantum Dot. <i>Photonics</i> , 2015, 2, 214-227. | 2.0 | 7 |

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|----|--|------|-----------|
| 73 | Formulation of the twisted-light-matter interaction at the phase singularity: The twisted-light gauge. <i>Physical Review A</i> , 2015, 91, . | 2.5 | 33 |
| 74 | Quench dynamics of an ultracold Fermi gas in the BCS regime: Spectral properties and confinement-induced breakdown of the Higgs mode. <i>Physical Review A</i> , 2015, 91, . | 2.5 | 16 |
| 75 | Spin Control in Charged Quantum Dots by Twisted Light. , 2015, , . | | 1 |
| 76 | Nanomagnonic devices based on the spin-transfer torque. <i>Nature Nanotechnology</i> , 2014, 9, 509-513. | 31.5 | 130 |
| 77 | Spin-wave-mediated mutual synchronization of spin-torque nano-oscillators: A micromagnetic study of multistable phase locking. <i>Physical Review B</i> , 2014, 90, . | 3.2 | 20 |
| 78 | Light-hole transitions in quantum dots: Realizing full control by highly focused optical-vortex beams. <i>Physical Review B</i> , 2014, 90, . | 3.2 | 31 |
| 79 | The role of phonons for exciton and biexciton generation in an optically driven quantum dot. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 423203. | 1.8 | 59 |
| 80 | Electron states in a double quantum dot with broken axial symmetry. <i>Physical Review B</i> , 2014, 90, . | 3.2 | 24 |
| 81 | 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 | 26 |
| 82 | Competition between pure dephasing and photon losses in the dynamics of a dot-cavity system. <i>Physical Review B</i> , 2014, 90, . | 3.2 | 13 |
| 83 | Coherent dynamics of confinement-induced multiband superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2014, 503, 183-186. | 1.2 | 3 |
| 84 | Fluctuation properties of acoustic phonons generated by ultrafast optical excitation of a quantum dot. <i>Physical Review B</i> , 2013, 87, . | 3.2 | 13 |
| 85 | Double quantum dot in a quantum dash: Optical properties. <i>Journal of Applied Physics</i> , 2013, 114, . | 2.5 | 3 |
| 86 | Spin dynamics in p-doped semiconductor nanostructures subject to a magnetic field tilted from the Voigt geometry. <i>Physical Review B</i> , 2013, 88, . | 3.2 | 4 |
| 87 | Coherent spin-transfer dynamics in diluted magnetic semiconductor quantum wells even after optical excitation with zero net angular momentum. <i>Physical Review B</i> , 2013, 88, . | 3.2 | 10 |
| 88 | Excitons in quantum dot molecules: Coulomb coupling, spin-orbit effects, and phonon-induced line broadening. <i>Physical Review B</i> , 2013, 88, . | 3.2 | 18 |
| 89 | Optical signals of spin switching using the optical Stark effect in a Mn-doped quantum dot. <i>Physical Review B</i> , 2013, 87, . | 3.2 | 15 |
| 90 | Ultrafast terahertz-field-induced dynamics of superconducting bulk and quasi-1D samples. <i>New Journal of Physics</i> , 2013, 15, 055016. | 2.9 | 25 |

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|-----|--|-----|-----------|
| 91 | 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, . | 3.2 | 39 |
| 92 | Non-Markovian spin transfer dynamics in magnetic semiconductors despite short memory times. <i>Physical Review B</i> , 2013, 87, . | 3.2 | 18 |
| 93 | Switching between ground states of an InAs quantum dot doped with a single Mn atom. <i>Physical Review B</i> , 2013, 88, . | 3.2 | 4 |
| 94 | 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 |
| 95 | Optical excitation of squeezed longitudinal optical phonon states in an electrically biased quantum well. <i>Physical Review B</i> , 2012, 85, . | 3.2 | 10 |
| 96 | Dephasing in the adiabatic rapid passage in quantum dots: Role of phonon-assisted biexciton generation. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 20 |
| 97 | Influence of acoustic phonons on the optical control of quantum dots driven by adiabatic rapid passage. <i>Physical Review B</i> , 2012, 85, . | 3.2 | 55 |
| 98 | Interaction of a quantum-dot cavity system with acoustic phonons: Stronger light-matter coupling can reduce the visibility of strong coupling effects. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 23 |
| 99 | Impact of dark superpositions on the relaxation dynamics of an optically driven phonon-coupled exciton-biexciton quantum-dot system. <i>Physical Review B</i> , 2012, 85, . | 3.2 | 11 |
| 100 | Spin switching in a Mn-doped quantum dot using the optical Stark effect. <i>Physical Review B</i> , 2012, 85, . | 3.2 | 19 |
| 101 | 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 |
| 102 | Phonon Effects on Population Inversion in Quantum Dots: Resonant, Detuned and Frequency-Swept Excitations. <i>Acta Physica Polonica A</i> , 2012, 122, 1065-1068. | 0.5 | 22 |
| 103 | Carrier Trapping in a Quantum Dash: Optical Signatures. <i>Acta Physica Polonica A</i> , 2012, 122, 997-1000. | 0.5 | 0 |
| 104 | Real-time path integrals for quantum dots: Quantum dissipative dynamics with superohmic environment coupling. <i>Physical Review B</i> , 2011, 83, . | 3.2 | 88 |
| 105 | Long-time dynamics and stationary nonequilibrium of an optically driven strongly confined quantum dot coupled to phonons. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 59 |
| 106 | Decoherence-assisted initialization of a resident hole spin polarization in a p -doped semiconductor quantum well. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 23 |
| 107 | Role of Coulomb correlations for femtosecond pump-probe signals obtained from a single quantum dot. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 25 |
| 108 | Fluctuation properties of phonons generated by ultrafast optical excitation of a quantum dot. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 825-828. | 1.5 | 5 |

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|-----|---|-----|-----------|
| 109 | 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. | 1.5 | 19 |
| 110 | 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 |
| 111 | Generation of coherent LO phonons in optically driven biased quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1121-1124. | 0.8 | 2 |
| 112 | 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. | 0.8 | 0 |
| 113 | Coherent control of a single Mn spin in a quantum dot via optical manipulation of the light hole exciton. <i>Physical Review B</i> , 2011, 83, . | 3.2 | 20 |
| 114 | Quantum kinetics of squeezed lattice displacement generated by phonon down conversion. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 11 |
| 115 | Generation and dynamics of phononic cat states after optical excitation of a quantum dot. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 22 |
| 116 | Influence of the pulse shape and the dot size on the decay and reappearance of Rabi rotations in laser driven quantum dots. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 27 |
| 117 | All-optical spin switching in neutral or charged magnetic quantum dots. <i>Journal of Physics: Conference Series</i> , 2010, 210, 012004. | 0.4 | 0 |
| 118 | Fast preparation and detection of Mn spin states in a magnetically doped quantum dot. <i>Journal of Physics: Conference Series</i> , 2010, 245, 012033. | 0.4 | 0 |
| 119 | A Theoretical Analysis of Instantaneous Coulomb Renormalizations in a Single Quantum Dot Pump-Probe Experiment. <i>Journal of Physics: Conference Series</i> , 2010, 245, 012025. | 0.4 | 0 |
| 120 | Detecting strain wave propagation through quantum dots by pump-probe spectroscopy: A theoretical analysis. <i>Journal of Physics: Conference Series</i> , 2010, 210, 012013. | 0.4 | 0 |
| 121 | Ultrafast dynamics and optical spin-control in single magnetic quantum dots. , 2010, , . | | 4 |
| 122 | Spin decoherence of a confined exciton due to one- and two-phonon assisted transitions. , 2010, , . | | 0 |
| 123 | Theory of the time-resolved Kerr rotation in ensembles of trapped holes in semiconductor nanostructures. <i>Physical Review B</i> , 2010, 81, . | 3.2 | 9 |
| 124 | Lattice Fluctuations at a Double Phonon Frequency with and without Squeezing: An Exactly Solvable Model of an Optically Excited Quantum Dot. <i>Physical Review Letters</i> , 2010, 105, 157401. | 7.8 | 25 |
| 125 | Interplay between coherent and incoherent phonons in optically excited biased quantum wells. <i>Journal of Physics: Conference Series</i> , 2010, 210, 012054. | 0.4 | 1 |
| 126 | Resonant generation of coherent LO phonons by charge oscillations in a biased quantum well. <i>Physical Review B</i> , 2010, 81, . | 3.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Optically controlled spin dynamics in a magnetically doped quantum dot. <i>Nanoscience and Technology</i> , 2010, , 131-150. | 1.5 | 0 |
| 128 | Spin-sensitive intersubband dynamics of optically generated carriers in semiconductor quantum wells. <i>Physical Review B</i> , 2009, 80, . | 3.2 | 5 |
| 129 | Ultrafast coherent dynamics in optically driven BCS systems. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 325-328. | 1.5 | 2 |
| 130 | Optical control of the spin state in a semimagnetic quantum dot. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 315-319. | 1.5 | 1 |
| 131 | Spin control by ultra short laser pulses in a Mn doped quantum dot. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 779-783. | 1.5 | 7 |
| 132 | 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 |
| 133 | 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. | 0.8 | 0 |
| 134 | All-Optical Spin Manipulation of a Single Manganese Atom in a Quantum Dot. <i>Physical Review Letters</i> , 2009, 102, 177403. | 7.8 | 65 |
| 135 | Generation of squeezed phonon states by optical excitation of a quantum dot. <i>Journal of Physics: Conference Series</i> , 2009, 193, 012121. | 0.4 | 2 |
| 136 | Intersubband dynamics of spin polarized carriers. <i>Journal of Physics: Conference Series</i> , 2009, 193, 012098. | 0.4 | 0 |
| 137 | Nonequilibrium dynamics and coherent control of BCS superconductors driven by ultrashort THz pulses. <i>Journal of Physics: Conference Series</i> , 2009, 193, 012050. | 0.4 | 9 |
| 138 | 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. | 0.4 | 1 |
| 139 | Coherent control of carrier capture and wave front dynamics in homogeneously excited quantum wire-dot systems. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 347-350. | 0.8 | 0 |
| 140 | Hydrodynamic modeling of charge carrier transport and transverse pattern formation in ZnS:Mn thin-film electroluminescent structures. <i>Physical Review B</i> , 2008, 77, . | 3.2 | 1 |
| 141 | Coherent control of the gap dynamics of BCS superconductors in the nonadiabatic regime. <i>Physical Review B</i> , 2008, 78, . | 3.2 | 53 |
| 142 | Impact of strain waves traveling across a quantum dot on the optical response of the dot: Distinction between strain waves of different origin. <i>Physical Review B</i> , 2008, 78, . | 3.2 | 14 |
| 143 | One and Two Phonon Assisted Transitions between Exciton Spin States in a Quantum Dot. <i>Acta Physica Polonica A</i> , 2008, 114, 1329-1335. | 0.5 | 0 |
| 144 | REAL TIME PATH INTEGRALS IN STUDIES OF QUANTUM DOTS DYNAMICS: NON-MONOTONOUS DECAY RATE AND REAPPEARANCE OF RABI ROTATIONS. , 2008, , . | | 0 |

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|-----|---|-----|-----------|
| 145 | Quantum-information encoding in dressed qubits. <i>Physical Review A</i> , 2007, 75, . | 2.5 | 19 |
| 146 | Spatiotemporal dynamics in optically excited quantum wire-dot systems: Capture, escape, and wave-front dynamics. <i>Physical Review B</i> , 2007, 75, . | 3.2 | 24 |
| 147 | Coherent dynamics and pump-probe spectra of BCS superconductors. <i>Physical Review B</i> , 2007, 76, . | 3.2 | 93 |
| 148 | Monitoring the buildup of the quantum dot polaron: Pump-probe and four-wave mixing spectra from excitons and biexcitons in semiconductor quantum dots. <i>Physical Review B</i> , 2007, 76, . | 3.2 | 16 |
| 149 | Nonmonotonic Field Dependence of Damping and Reappearance of Rabi Oscillations in Quantum Dots. <i>Physical Review Letters</i> , 2007, 98, 227403. | 7.8 | 98 |
| 150 | Spatiotemporal dynamics of charge carriers in quantum dot-wire systems following delocalized optical excitations. <i>AIP Conference Proceedings</i> , 2007, , . | 0.4 | 0 |
| 151 | Exciton spin decay in quantum dots to bright and dark states. <i>Physical Review B</i> , 2007, 76, . | 3.2 | 46 |
| 152 | Combined influence of Coulomb, exchange and phonon couplings on the line shape of quantum dot spectra. <i>AIP Conference Proceedings</i> , 2007, , . | 0.4 | 0 |
| 153 | Coherent control of the exciton and exciton-biexciton transitions in the generation of nonlinear wave-mixing signals in a semiconductor quantum well. <i>Physical Review B</i> , 2006, 73, . | 3.2 | 26 |
| 154 | Hydrodynamic and drift-diffusion modelling of charge carrier transport in ZnS:Mn thin-film electroluminescent structures. <i>Semiconductor Science and Technology</i> , 2006, 21, 565-574. | 2.0 | 3 |
| 155 | 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, . | 3.2 | 175 |
| 156 | Back action of nonequilibrium phonons on the optically induced dynamics in semiconductor quantum dots. <i>Physical Review B</i> , 2006, 73, . | 3.2 | 49 |
| 157 | High pulse area undamping of Rabi oscillations in quantum dots coupled to phonons. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2233-2240. | 1.5 | 15 |
| 158 | Coherent nonlinear optical response of excitons and biexcitons in quantum dots coupled to phonons. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2241-2246. | 1.5 | 2 |
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