

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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all docs

315
docs citations

315
times ranked

3904
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory of ultrafast phenomena in photoexcited semiconductors. <i>Reviews of Modern Physics</i> , 2002, 74, 895-950.	45.6	495
2	Theory of pure dephasing and the resulting absorption line shape in semiconductor quantum dots. <i>Physical Review B</i> , 2002, 65, .	3.2	445
3	Femtosecond spectroscopy in semiconductors: a key to coherences, correlations and quantum kinetics. <i>Reports on Progress in Physics</i> , 2004, 67, 433-512.	20.1	183
4	Strain Control of Exciton-Phonon Coupling in Atomically Thin Semiconductors. <i>Nano Letters</i> , 2018, 18, 1751-1757.	9.1	177
5	Two-photon Rabi oscillations in a single $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ quantum dot. <i>Physical Review B</i> , 2006, 73, .	3.2	175
6	Electron-phonon quantum kinetics in pulse-excited semiconductors: Memory and renormalization effects. <i>Physical Review B</i> , 1994, 50, 5435-5447.	3.2	167
7	Nanoscale Positioning of Single-Photon Emitters in Atomically Thin WSe_2 . <i>Advanced Materials</i> , 2016, 28, 7101-7105.	21.0	162
8	Monte Carlo simulation of ultrafast processes in photoexcited semiconductors: Coherent and incoherent dynamics. <i>Physical Review B</i> , 1992, 46, 7496-7514.	3.2	156
9	Coherent Nonlinear Optical Response of Single Quantum Dots Studied by Ultrafast Near-Field Spectroscopy. <i>Physical Review Letters</i> , 2002, 89, 057401.	7.8	154
10	Electron-phonon dynamics in optically excited quantum dots: Exact solution for multiple ultrashort laser pulses. <i>Physical Review B</i> , 2002, 66, .	3.2	140
11	Nanomagnonic devices based on the spin-transfer torque. <i>Nature Nanotechnology</i> , 2014, 9, 509-513.	31.5	130
12	Nonmonotonous temperature dependence of the initial decoherence in quantum dots. <i>Physical Review B</i> , 2004, 70, .	3.2	128
13	Maxwell-Bloch equations for spatially inhomogeneous semiconductor lasers. I. Theoretical formulation. <i>Physical Review A</i> , 1996, 54, 3347-3359.	2.5	111
14	Pure dephasing and phonon dynamics in GaAs- and GaN-based quantum dot structures: Interplay between material parameters and geometry. <i>Physical Review B</i> , 2005, 71, .	3.2	101
15	Analysis of coherent and incoherent phenomena in photoexcited semiconductors: A Monte Carlo approach. <i>Physical Review Letters</i> , 1992, 69, 977-980.	7.8	99
16	Nonmonotonic Field Dependence of Damping and Reappearance of Rabi Oscillations in Quantum Dots. <i>Physical Review Letters</i> , 2007, 98, 227403.	7.8	98
17	Ultrafast relaxation of photoexcited carriers: The role of coherence in the generation process. <i>Physical Review Letters</i> , 1994, 72, 152-155.	7.8	95
18	Coherent dynamics and pump-probe spectra of BCS superconductors. <i>Physical Review B</i> , 2007, 76, .	3.2	93

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19	Real-time path integrals for quantum dots: Quantum dissipative dynamics with superohmic environment coupling. <i>Physical Review B</i> , 2011, 83, .	3.2	88
20	Impact of pure dephasing on the nonlinear optical response of single quantum dots and dot ensembles. <i>Physical Review B</i> , 2003, 67, .	3.2	87
21	The role of acoustic phonons for Rabi oscillations in semiconductor quantum dots. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 897-904.	2.2	82
22	Microscopic simulation of electronic noise in semiconductor materials and devices. <i>IEEE Transactions on Electron Devices</i> , 1994, 41, 1916-1925.	3.0	78
23	Coherent optical polarization of bulk GaAs studied by femtosecond photon-echo spectroscopy. <i>Physical Review Letters</i> , 1993, 71, 77-80.	7.8	75
24	All-Optical Spin Manipulation of a Single Manganese Atom in a Quantum Dot. <i>Physical Review Letters</i> , 2009, 102, 177403.	7.8	65
25	Ultrafast Coherent Generation of Hot Electrons Studied via Band-to-Acceptor Luminescence in GaAs. <i>Physical Review Letters</i> , 1994, 73, 1687-1690.	7.8	62
26	Thermal Conductivity and Lorenz Number for One-Dimensional Ballistic Transport. <i>Physical Review Letters</i> , 1997, 78, 1114-1117.	7.8	60
27	Heavy-Light Hole Quantum Beats in the Band-to-Band Continuum of GaAs Observed in 20 Femtosecond Pump-Probe Experiments. <i>Physical Review Letters</i> , 1997, 78, 737-740.	7.8	60
28	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
29	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
30	Dynamics of exciton formation for near band-gap excitations. <i>Physical Review B</i> , 2001, 65, .	3.2	57
31	Coherent control of exciton density and spin. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1996, 2, 769-775.	2.9	56
32	Phonon-assisted emission and absorption of individual color centers in hexagonal boron nitride. <i>2D Materials</i> , 2019, 6, 035006.	4.4	56
33	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
34	Maxwell-Bloch equations for spatially inhomogeneous semiconductor lasers. II. Spatiotemporal dynamics. <i>Physical Review A</i> , 1996, 54, 3360-3368.	2.5	53
35	Reducing decoherence of the confined exciton state in a quantum dot by pulse-sequence control. <i>Physical Review B</i> , 2005, 71, .	3.2	53
36	Coherent control of the gap dynamics of BCS superconductors in the nonadiabatic regime. <i>Physical Review B</i> , 2008, 78, .	3.2	53

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37	Coherent intraband and interband dynamics in double quantum wells: Exciton and free-carrier effects. <i>Physical Review B</i> , 1994, 50, 18319-18329.	3.2	52
38	Spatio-temporal dynamics of semiconductor lasers: Theory, modelling and analysis. <i>Progress in Quantum Electronics</i> , 1996, 20, 85-179.	7.0	52
39	Ultrafast Dephasing of Coherent Intersubband Polarizations in a Quasi-Two-Dimensional Electron Plasma. <i>Physical Review Letters</i> , 1998, 80, 3575-3578.	7.8	50
40	Phonon-induced decoherence for a quantum-dot spin qubit operated by Raman passage. <i>Physical Review B</i> , 2005, 71, .	3.2	49
41	Back action of nonequilibrium phonons on the optically induced dynamics in semiconductor quantum dots. <i>Physical Review B</i> , 2006, 73, .	3.2	49
42	Phonon-induced pure dephasing in exciton-biexciton quantum dot systems driven by ultrafast laser pulse sequences. <i>Physical Review B</i> , 2005, 72, .	3.2	48
43	Exciton spin decay in quantum dots to bright and dark states. <i>Physical Review B</i> , 2007, 76, .	3.2	46
44	Density matrix theory of coherent ultrafast dynamics. , 1998, , 173-214.		46
45	Monte Carlo method for the simulation of electronic noise in semiconductors. <i>Physical Review B</i> , 1990, 42, 5702-5713.	3.2	45
46	Optical studies of vertical ambipolar transport and interface recombination velocities in GaAs/Al _{0.5} Ga _{0.5} As double-quantum-well heterostructures. <i>Physical Review B</i> , 1991, 43, 13992-14000.	3.2	43
47	Coherent control of phonon quantum beats. <i>Superlattices and Microstructures</i> , 1999, 26, 117-128.	3.1	42
48	Generalized Monte Carlo approach for the study of the coherent ultrafast carrier dynamics in photoexcited semiconductors. <i>Physical Review B</i> , 1996, 53, 12855-12868.	3.2	41
49	The Exciton-Exciton Continuum and Its Contribution to Four-Wave Mixing Signals. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 206, 189-196.	1.5	41
50	Electron-phonon quantum kinetics for spatially inhomogeneous excitations. <i>Physical Review B</i> , 2003, 67, .	3.2	41
51	Coherent and robust high-fidelity generation of a biexciton in a quantum dot by rapid adiabatic passage. <i>Physical Review B</i> , 2017, 95, .	3.2	41
52	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
53	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
54	Distinctive characteristics of carrier-phonon interactions in optically driven semiconductor quantum dots. <i>Advances in Physics: X</i> , 2019, 4, 1655478.	4.1	37

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55	Excitonic and free-carrier polarizations of bulk GaAs studied by femtosecond coherent spectroscopy. <i>Physical Review B</i> , 1994, 49, 16372-16380.	3.2	36
56	Impact of Phonons on Dephasing of Individual Excitons in Deterministic Quantum Dot Microlenses. <i>ACS Photonics</i> , 2016, 3, 2461-2466.	6.6	35
57	Monte Carlo simulation of the nonequilibrium phase transition in p-type Ge at impurity breakdown. <i>Physical Review B</i> , 1994, 49, 13408-13419.	3.2	34
58	Dynamics of excitons in individual InAs quantum dots revealed in four-wave mixing spectroscopy. <i>Optica</i> , 2016, 3, 377.	9.3	34
59	Correlation functions and electronic noise in doped semiconductors. <i>Physical Review B</i> , 1990, 42, 11133-11146.	3.2	33
60	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
61	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
62	Demonstrating the decoupling regime of the electron-phonon interaction in a quantum dot using chirped optical excitation. <i>Physical Review B</i> , 2017, 95, .	3.2	31
63	Fast and selective phonon-assisted state preparation of a quantum dot by adiabatic undressing. <i>Physical Review B</i> , 2016, 94, .	3.2	30
64	Noise and correlation functions of hot carriers in semiconductors. <i>Applied Physics A: Solids and Surfaces</i> , 1992, 54, 411-427.	1.4	29
65	Current and number fluctuations in submicron n ⁺ n ⁺ structures. <i>Solid-State Electronics</i> , 1993, 36, 251-261.	1.4	29
66	Transport of a wave packet through nanostructures: Quantum kinetics of carrier capture processes. <i>Physical Review B</i> , 2005, 72, .	3.2	29
67	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
68	Theory of the absorption line shape in monolayers of transition metal dichalcogenides. <i>Physical Review B</i> , 2020, 101, .	3.2	27
69	Carrier capture in quantum wells and its importance for ambipolar transport. <i>Solid-State Electronics</i> , 1989, 32, 1851-1855.	1.4	26
70	Quantum kinetics of the coupled carrier-phonon system in photoexcited semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 1995, 188, 417-424.	1.5	26
71	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
72	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

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73	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
74	Coupled polarization and acoustic-phonon dynamics after optical excitation of quantum dots near surfaces. <i>Physical Review B</i> , 2005, 72, .	3.2	25
75	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
76	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
77	Ultrafast terahertz-field-induced dynamics of superconducting bulk and quasi-1D samples. <i>New Journal of Physics</i> , 2013, 15, 055016.	2.9	25
78	Coulomb Mediated Hybridization of Excitons in Coupled Quantum Dots. <i>Physical Review Letters</i> , 2016, 116, 077401.	7.8	25
79	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
80	Electron states in a double quantum dot with broken axial symmetry. <i>Physical Review B</i> , 2014, 90, .	3.2	24
81	Phonon-Induced Enhancement of Photon Entanglement in Quantum Dot-Cavity Systems. <i>Physical Review Letters</i> , 2019, 123, 137401.	7.8	24
82	Optomechanical wave mixing by a single quantum dot. <i>Optica</i> , 2021, 8, 291.	9.3	24
83	Decoherence-assisted initialization of a resident hole spin polarization in a $\text{p-doped semiconductor quantum well}$. <i>Physical Review B</i> , 2011, 84, .	3.2	23
84	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
85	Picosecond Control of Quantum Dot Laser Emission by Coherent Phonons. <i>Physical Review Letters</i> , 2017, 118, 133901.	7.8	23
86	Influence of internal electric fields and surface charges on the transport of an optically generated electron-hole plasma. <i>Physical Review B</i> , 1991, 44, 12873-12879.	3.2	22
87	Generation and dynamics of phononic cat states after optical excitation of a quantum dot. <i>Physical Review B</i> , 2011, 84, .	3.2	22
88	Comparison of different concurrences characterizing photon pairs generated in the biexciton cascade in quantum dots coupled to microcavities. <i>Physical Review B</i> , 2018, 98, .	3.2	22
89	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
90	Microscopic analysis of noise and nonlinear dynamics in p-type germanium. <i>Physical Review B</i> , 1993, 48, 1478-1485.	3.2	20

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91	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
92	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
93	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
94	Quantum-information encoding in dressed qubits. <i>Physical Review A</i> , 2007, 75, .	2.5	19
95	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
96	Spin switching in a Mn-doped quantum dot using the optical Stark effect. <i>Physical Review B</i> , 2012, 85, .	3.2	19
97	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
98	Persistent oscillations of the order parameter and interaction quench phase diagram for a confined Bardeen-Cooper-Schrieffer Fermi gas. <i>Physical Review A</i> , 2018, 98, .	2.5	19
99	Rabi oscillations of a quantum dot exciton coupled to acoustic phonons: coherence and population readout. <i>Optica</i> , 2018, 5, 1442.	9.3	19
100	Single-Photon Emitters in Layered Van der Waals Materials. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	1.5	19
101	Biexcitonic effects in the coherent control of the excitonic polarization detected in six-wave-mixing signals. <i>Physical Review B</i> , 2002, 66, .	3.2	18
102	Controlling the capture dynamics of traveling wave packets into a quantum dot. <i>Physical Review B</i> , 2006, 73, .	3.2	18
103	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
104	Non-Markovian spin transfer dynamics in magnetic semiconductors despite short memory times. <i>Physical Review B</i> , 2013, 87, .	3.2	18
105	Formulation of the twisted-light-matter interaction at the phase singularity: Beams with strong magnetic fields. <i>Physical Review A</i> , 2017, 95, .	2.5	18
106	Reexamination of Bessel beams: A generalized scheme to derive optical vortices. <i>Physical Review A</i> , 2019, 99, .	2.5	18
107	Carrier kinetics in a surface-excited semiconductor slab: Influence of boundary conditions. <i>Physical Review B</i> , 1987, 35, 2827-2833.	3.2	17
108	Correlation functions and quantized noise in mesoscopic. <i>Superlattices and Microstructures</i> , 1992, 11, 205-209.	3.1	17

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109	Direct optical state preparation of the dark exciton in a quantum dot. <i>Physical Review B</i> , 2015, 92, .	3.2	17
110	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
111	Coupled-Langevin-equation analysis of hot-carrier transport in semiconductors. <i>Physical Review B</i> , 1992, 45, 1903-1906.	3.2	16
112	Coherent optical generation of nonequilibrium electrons studied via band-to-acceptor luminescence in GaAs. <i>Physical Review B</i> , 1996, 53, 9876-9885.	3.2	16
113	Relaxation Dynamics of Electron-Hole Pairs Studied by Spatiotemporal Pump and Probe Experiments. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 204, 147-150.	1.5	16
114	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
115	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
116	Acoustic phonon sideband dynamics during polaron formation in a single quantum dot. <i>Optics Letters</i> , 2020, 45, 919.	3.3	16
117	Field-dependent electronic noise of lightly doped p-type Si at 77 K. <i>Physical Review B</i> , 1991, 44, 1074-1080.	3.2	15
118	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
119	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
120	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
121	Importance of carrier-carrier scattering for the ambipolar transport of optically generated carriers in a thin semiconductor slab. <i>Physical Review B</i> , 1989, 39, 1194-1201.	3.2	14
122	Many-body effects in intersubband transitions of modulation-doped quantum wells. <i>Physica B: Condensed Matter</i> , 1999, 272, 234-236.	2.7	14
123	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
124	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
125	Many-body effects in the highly excited state of fullerenes. <i>Applied Physics A: Solids and Surfaces</i> , 1993, 57, 303-308.	1.4	13
126	Influence of higher Coulomb correlations on optical coherent-control signals from a ZnSe quantum well. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 1769.	2.1	13

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127	Role of exchange interaction in Coulomb quantum kinetics. <i>Physical Review B</i> , 2003, 67, .	3.2	13
128	Fluctuation properties of acoustic phonons generated by ultrafast optical excitation of a quantum dot. <i>Physical Review B</i> , 2013, 87, .	3.2	13
129	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
130	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
131	Transport of an optically generated electron-hole plasma in a semiconductor slab: Approach to stationarity. <i>Physical Review B</i> , 1990, 41, 5144-5151.	3.2	12
132	Noise and conductance in one-dimensional systems. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1992, 14, 509-515.	0.4	12
133	Analysis of coherent and incoherent ultrafast dynamics in photoexcited semiconductors: a Monte Carlo approach. <i>Semiconductor Science and Technology</i> , 1994, 9, 411-415.	2.0	12
134	Lindblad approach to spatiotemporal quantum dynamics of phonon-induced carrier capture processes. <i>Physical Review B</i> , 2017, 95, .	3.2	12
135	Pure Goldstone mode in the quench dynamics of a confined ultracold Fermi gas in the BCS-BEC crossover regime. <i>Physical Review A</i> , 2017, 96, .	2.5	12
136	Influence of excited state decay and dephasing on phonon quantum state preparation. <i>Physical Review B</i> , 2019, 100, .	3.2	12
137	Resonance-fluorescence spectral dynamics of an acoustically modulated quantum dot. <i>Physical Review Research</i> , 2021, 3, .	3.6	12
138	Estimating the Memory Time Induced by Exciton-Exciton Scattering. <i>Physical Review Letters</i> , 2004, 93, 127402.	7.8	11
139	Quantum kinetics of squeezed lattice displacement generated by phonon down conversion. <i>Physical Review B</i> , 2011, 84, .	3.2	11
140	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
141	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
142	Experimental and Theoretical Investigations of Free Exciton Transport in Si. <i>Physica Scripta</i> , 1987, 35, 520-523.	2.5	10
143	Electron-Phonon Quantum Kinetics: Relaxation in the Presence of an Electric Field. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 204, 358-361.	1.5	10
144	Comment on "Quantized Thermal Conductance of Dielectric Quantum Wires". <i>Physical Review Letters</i> , 1998, 81, 5037-5037.	7.8	10

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145	Optical excitation of squeezed longitudinal optical phonon states in an electrically biased quantum well. <i>Physical Review B</i> , 2012, 85, .	3.2	10
146	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
147	A model current spectral density for hot-carrier noise in semiconductors. <i>Journal of Applied Physics</i> , 1991, 69, 7097-7101.	2.5	9
148	Energy relaxation and dephasing of photoexcited carriers: memory effects and cross terms between different interactions. <i>Semiconductor Science and Technology</i> , 1994, 9, 439-441.	2.0	9
149	The magnetic field dependence of shallow donor impurity states in GaAs/GaAlAs multi-quantum wells: a non-variational approach. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 757-770.	1.8	9
150	The role of vertical transport and capture of electrons and holes for the transient optical response in quantum-well heterostructures. <i>Optical and Quantum Electronics</i> , 1994, 26, S691-S703.	3.3	9
151	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
152	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
153	Exploring coherence of individual excitons in InAs quantum dots embedded in natural photonic defects: Influence of the excitation intensity. <i>Physical Review B</i> , 2017, 96, .	3.2	9
154	Spatial control of carrier capture in two-dimensional materials: Beyond energy selection rules. <i>Physical Review B</i> , 2018, 98, .	3.2	9
155	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
156	Phonon signatures in spectra of exciton polaritons in transition metal dichalcogenides. <i>Physical Review B</i> , 2021, 104, .	3.2	9
157	Perpendicular transport of optically generated carriers in GaAs/AlGaAs quantum well structures. <i>Physica Scripta</i> , 1988, 38, 216-220.	2.5	8
158	LO-Phonon Quantum Kinetics in Photoexcited Bulk Semiconductors and Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 206, 227-233.	1.5	8
159	Carrier kinetics from the diffusive to the ballistic regime: linear response near thermodynamic equilibrium. <i>Semiconductor Science and Technology</i> , 2000, 15, 1071-1081.	2.0	8
160	Resonant generation of coherent LO phonons by charge oscillations in a biased quantum well. <i>Physical Review B</i> , 2010, 81, .	3.2	8
161	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
162	Nonexponential generation-recombination dynamics in doped semiconductors as a possible source of high-frequency 1/f noise. <i>Physical Review B</i> , 1993, 48, 4405-4411.	3.2	7

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163	Spin control by ultra short laser pulses in a Mn doped quantum dot. Physica Status Solidi (B): Basic Research, 2009, 246, 779-783.	1.5	7
164	Squeezed Phonon Wave Packet Generation by Optical Manipulation of a Quantum Dot. Photonics, 2015, 2, 214-227.	2.0	7
165	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
166	Phonon-assisted dark exciton preparation in a quantum dot. Physical Review B, 2017, 95, .	3.2	7
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