Doris E Reiter

List of Publications by Year
in descending order

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97 papers	1,504 citations	304368 22 h-index	377514 34 g-index
98 all docs	98 docs citations	98 times ranked	1423 citing authors

#	Article	IF	Citations
1	Nanoscale Positioning of Singleâ€Photon Emitters in Atomically Thin WSe₂. Advanced Materials, 2016, 28, 7101-7105.	11.1	162
2	All-Optical Spin Manipulation of a Single Manganese Atom in a Quantum Dot. Physical Review Letters, 2009, 102, 177403.	2.9	65
3	Long-time dynamics and stationary nonequilibrium of an optically driven strongly confined quantum dot coupled to phonons. Physical Review B, 2011, 84, .	1.1	59
4	The role of phonons for exciton and biexciton generation in an optically driven quantum dot. Journal of Physics Condensed Matter, 2014, 26, 423203.	0.7	59
5	Influence of acoustic phonons on the optical control of quantum dots driven by adiabatic rapid passage. Physical Review B, 2012, 85, .	1.1	55
6	Orbital angular momentum dichroism in nanoantennas. Communications Physics, 2018, 1, .	2.0	45
7	Coherent and robust high-fidelity generation of a biexciton in a quantum dot by rapid adiabatic passage. Physical Review B, 2017, 95, .	1.1	41
8	Biexciton state preparation in a quantum dot via adiabatic rapid passage: Comparison between two control protocols and impact of phonon-induced dephasing. Physical Review B, 2013, 87, .	1.1	39
9	Distinctive characteristics of carrier-phonon interactions in optically driven semiconductor quantum dots. Advances in Physics: X, 2019, 4, 1655478.	1.5	37
10	Impact of Phonons on Dephasing of Individual Excitons in Deterministic Quantum Dot Microlenses. ACS Photonics, 2016, 3, 2461-2466.	3.2	35
11	Reading the Orbital Angular Momentum of Light Using Plasmonic Nanoantennas. ACS Photonics, 2017, 4, 891-896.	3.2	35
12	Integration of Diamond-Based Quantum Emitters with Nanophotonic Circuits. Nano Letters, 2020, 20, 8170-8177.	4.5	35
13	Dynamics of excitons in individual InAs quantum dots revealed in four-wave mixing spectroscopy. Optica, 2016, 3, 377.	4.8	34
14	Formulation of the twisted-lightâ€“matter interaction at the phase singularity: The twisted-light gauge. Physical Review A, 2015, 91, .	1.0	33
15	Demonstrating the decoupling regime of the electron-phonon interaction in a quantum dot using chirped optical excitation. Physical Review B, 2017, 95, .	1.1	31
16	A review on optical excitation of semiconductor quantum dots under the influence of phonons. Semiconductor Science and Technology, 2019, 34, 063002.	1.0	31
17	Fast and selective phonon-assisted state preparation of a quantum dot by adiabatic undressing. Physical Review B, 2016, 94, .	1.1	30
18	Theory of the absorption line shape in monolayers of transition metal dichalcogenides. Physical Review B, 2020, 101, .	1.1	27

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19	Energy transport and coherence properties of acoustic phonons generated by optical excitation of a quantum dot. Journal of Physics Condensed Matter, 2014, 26, 355802.	0.7	26
20	Phonon impact on optical control schemes of quantum dots: Role of quantum dot geometry and symmetry. Physical Review B, 2017, 96, .	1.1	26
21	Lattice Fluctuations at a Double Phonon Frequency with and without Squeezing: An Exactly Solvable Model of an Optically Excited Quantum Dot. Physical Review Letters, 2010, 105, 157401.	2.9	25
22	Swing-Up of Quantum Emitter Population Using Detuned Pulses. PRX Quantum, 2021, 2, .	3.5	24
23	Picosecond Control of Quantum Dot Laser Emission by Coherent Phonons. Physical Review Letters, 2017, 118, 133901.	2.9	23
24	Generation and dynamics of phononic cat states after optical excitation of a quantum dot. Physical Review B, 2011, 84, .	1.1	22
25	Coherent control of a single Mn spin in a quantum dot via optical manipulation of the light hole exciton. Physical Review B, 2011, 83, .	1.1	20
26	Dephasing in the adiabatic rapid passage in quantum dots: Role of phonon-assisted biexciton generation. Physical Review B, 2012, 86, .	1.1	20
27	Interaction of an Archimedean spiral structure with orbital angular momentum light. New Journal of Physics, 2018, 20, 095005.	1.2	20
28	Spin switching in a Mn-doped quantum dot using the optical Stark effect. Physical Review B, 2012, 85, .	1.1	19
29	Charge and spin control of ultrafast electron and hole dynamics in single CdSe/ZnSe quantum dots. Physical Review B, 2018, 97, .	1.1	19
30	SUPER Scheme in Action: Experimental Demonstration of Red-Detuned Excitation of a Quantum Emitter. Nano Letters, 2022, 22, 6567-6572.	4.5	19
31	Formulation of the twisted-lightâ€“matter interaction at the phase singularity: Beams with strong magnetic fields. Physical Review A, 2017, 95, .	1.0	18
32	Time-resolved pump-probe signals of a continuously driven quantum dot affected by phonons. Physical Review B, 2017, 95, .	1.1	18
33	Reexamination of Bessel beams: A generalized scheme to derive optical vortices. Physical Review A, 2019, 99, .	1.0	18
34	Optimal Photonic Crystal Cavities for Coupling Nanoemitters to Photonic Integrated Circuits. Advanced Quantum Technologies, 2020, 3, 1900084.	1.8	18
35	Direct optical state preparation of the dark exciton in a quantum dot. Physical Review B, 2015, 92, .	1.1	17
36	Optical signals of spin switching using the optical Stark effect in a Mn-doped quantum dot. Physical Review B, 2013, 87, .	1.1	15

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37	Accuracy of the Quantum Regression Theorem for Photon Emission from a Quantum Dot. Physical Review Letters, 2021, 127, 100402.	2.9	15
38	Influence of the quantum dot geometry on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math> -shell transitions in differently charged quantum dots. Physical Review B, 2018, 97, .	1.1	14
39	On-demand generation of higher-order Fock states in quantum-dotâ€“cavity systems. Physical Review Research, 2020, 2, .	1.3	14
40	Fluctuation properties of acoustic phonons generated by ultrafast optical excitation of a quantum dot. Physical Review B, 2013, 87, .	1.1	13
41	Quantum dynamics of optical phonons generated by optical excitation of a quantum dot. Journal of Computational Electronics, 2016, 15, 1158-1169.	1.3	13
42	Lindblad approach to spatiotemporal quantum dynamics of phonon-induced carrier capture processes. Physical Review B, 2017, 95, .	1.1	12
43	Quantum kinetics of squeezed lattice displacement generated by phonon down conversion. Physical Review B, 2011, 84, .	1.1	11
44	Femtosecond Transfer and Manipulation of Persistent Hot-Trion Coherence in a Single <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>CdSe</mml:mi><mml:mo>/</mml:mo><mml:mi>ZnSe</mml:mi></mml:math> Quantum Dot. Physical Review Letters, 2021, 126, 067402.	2.9	11
45	Coherent control of electron propagation and capture in semiconductor heterostructures. Europhysics Letters, 2009, 88, 67005.	0.7	9
46	Exploring coherence of individual excitons in InAs quantum dots embedded in natural photonic defects: Influence of the excitation intensity. Physical Review B, 2017, 96, .	1.1	9
47	Spatial control of carrier capture in two-dimensional materials: Beyond energy selection rules. Physical Review B, 2018, 98, .	1.1	9
48	Phonon signatures in spectra of exciton polaritons in transition metal dichalcogenides. Physical Review B, 2021, 104, .	1.1	9
49	Spin control by ultra short laser pulses in a Mn doped quantum dot. Physica Status Solidi (B): Basic Research, 2009, 246, 779-783.	0.7	7
50	Squeezed Phonon Wave Packet Generation by Optical Manipulation of a Quantum Dot. Photonics, 2015, 2, 214-227.	0.9	7
51	Dynamical calculation of third-harmonic generation in a semiconductor quantum well. Physical Review B, 2016, 94, .	1.1	7
52	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.	1.2	7
53	Phonon-assisted dark exciton preparation in a quantum dot. Physical Review B, 2017, 95, .	1.1	7
54	Dark exciton preparation in a quantum dot by a longitudinal light field tuned to higher exciton states. Physical Review Research, 2021, 3, .	1.3	7

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55	Optical Stark shift to control the dark exciton occupation of a quantum dot in a tilted magnetic field. Physical Review B, 2021, 104, .	1.1	6
56	Different Types of Photon Entanglement from a Constantly Driven Quantum Emitter Inside a Cavity. Advanced Quantum Technologies, 2021, 4, 2000108.	1.8	6
57	Optically driving the radiative Auger transition. Nature Communications, 2021, 12, 6575.	5.8	6
58	Fluctuation properties of phonons generated by ultrafast optical excitation of a quantum dot. Physica Status Solidi (B): Basic Research, 2011, 248, 825-828.	0.7	5
59	Semiclassical modeling of coupled quantum-dotâ€“cavity systems: From polaritonlike dynamics to Rabi oscillations. Physical Review B, 2020, 101, .	1.1	5
60	SchrÃ¶dinger cat states in quantum-dot-cavity systems. Physical Review Research, 2021, 3, .	1.3	5
61	Spatio-Temporal Dynamics of Carrier Capture Processes: Simulation of Optical Signals. Acta Physica Polonica A, 2017, 132, 372-375.	0.2	5
62	Control of capture-induced coherences in wave packet transport through nanostructures. Physica Status Solidi (B): Basic Research, 2006, 243, 2297-2301.	0.7	4
63	Ultrafast dynamics and optical spin-control in single magnetic quantum dots. , 2010, , .		4
64	Switching between ground states of an InAs quantum dot doped with a single Mn atom. Physical Review B, 2013, 88, .	1.1	4
65	Optical control of exciton and spin states in a quantum dot by excitation with twisted light. Journal of Physics: Conference Series, 2015, 647, 012012.	0.3	4
66	Spatiotemporal dynamics of Coulomb-correlated carriers in semiconductors. Physical Review B, 2019, 99, .	1.1	4
67	Optical Signals to Monitor the Dynamics of Phononâ€Modified Rabi Oscillations in a Quantum Dot. Annalen Der Physik, 2021, 533, 2100086.	0.9	4
68	Phonon wave packet emission during state preparation of a semiconductor quantum dot using different schemes. Physica Status Solidi (B): Basic Research, 0, , .	0.7	4
69	Single-Photon Emitters: Nanoscale Positioning of Single-Photon Emitters in Atomically Thin WSe2 (Adv. Mater. 33/2016). Advanced Materials, 2016, 28, 7032-7032.	11.1	3
70	Dynamic theory of nanophotonic control of two-dimensional semiconductor nonlinearities. Physical Review B, 2018, 98, .	1.1	3
71	Coulomb effects on the photoexcited quantum dynamics of electrons in a plasmonic nanosphere. Physical Review B, 2018, 98, .	1.1	3
72	Effective detection of spatio-temporal carrier dynamics by carrier capture. Journal of Physics Condensed Matter, 2019, 31, 28LT01.	0.7	3

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73	Time-dependent switching of the photon entanglement type using a driven quantum emitterâ€“cavity system. Applied Physics Letters, 2021, 118, 164001.	1.5	3
74	Phonon-mediated exciton capture in Mo-based transition metal dichalcogenides. Physical Review Research, 2020, 2, .	1.3	3
75	Electron Dynamics in a Two-Dimensional Nanobubble: A Two-Level System Based on Spatial Density. Nano Letters, 2021, 21, 9896-9902.	4.5	3
76	Generation of squeezed phonon states by optical excitation of a quantum dot. Journal of Physics: Conference Series, 2009, 193, 012121.	0.3	2
77	Adiabatic rapid passage in quantum dots: phononâ€assisted decoherence and biexciton generation. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1210-1213.	0.8	2
78	Coherent phonon lasing in a thermal quantum nanomachine. Physical Review A, 2018, 98, .	1.0	2
79	Comparison of the semiclassical and quantum optical field dynamics in a pulse-excited optical cavity with a finite number of quantum emitters. Physical Review B, 2021, 104, .	1.1	2
80	Self-Assembled Honeycomb Lattices of Dielectric Colloidal Nanospheres Featuring Photonic Dirac Cones. ACS Applied Nano Materials, 2022, 5, 3386-3393.	2.4	2
81	Optical control of the spin state in a semimagnetic quantum dot. Physica Status Solidi (B): Basic Research, 2009, 246, 315-319.	0.7	1
82	Dynamics of a single Mn spin in a quantum dot: The role of magnetic fields in Faraday and Voigt geometry. Journal of Physics: Conference Series, 2009, 193, 012101.	0.3	1
83	Magnetic-optical transitions induced by twisted light in quantum dots. Journal of Physics: Conference Series, 2017, 906, 012014.	0.3	1
84	Selection rules for the excitation of quantum dots by spatially structured light beams: Application to the reconstruction of higher excited exciton wave functions. Physical Review B, 2020, 102, .	1.1	1
85	Deterministic Photon Storage and Readout in a Semimagnetic QuantumÂDotâ€“CavityÂSystem Doped with a Single Mn Ion. Advanced Quantum Technologies, 2022, 5, .	1.8	1
86	Coherent control of carrier capture and wave front dynamics in homogeneously excited quantum wire-dot systems. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 347-350.	0.8	0
87	All-optical spin switching in neutral or charged magnetic quantum dots. Journal of Physics: Conference Series, 2010, 210, 012004.	0.3	0
88	Fast preparation and detection of Mn spin states in a magnetically doped quantum dot. Journal of Physics: Conference Series, 2010, 245, 012033.	0.3	0
89	Spectral characteristics and dynamics of a light hole type quantum dot doped with a single Mn atom. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1284-1287.	0.8	0
90	Generating sequences of phonon wave packets by optical excitation of a quantum dot. Journal of Physics: Conference Series, 2015, 647, 012025.	0.3	0

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91	Deterministic positioning of single-photon emitters in monolayer WSe<inf>2</inf> on the nanoscale. , 2017, , .		0
92	Control of quantum dot laser emission by coherent phonon wave packets. Journal of Physics: Conference Series, 2017, 906, 012025.	0.3	0
93	Simulation, fabrication and control of nanophotonic circuits including diamond-based quantum emitters. , 2021, , .		0
94	Ultrafast Detection and Manipulation of a Persistent Trion Coherence in a Single CdSe/ZnSe Quantum Dot. , 2021, , .		0
95	Optically controlled spin dynamics in a magnetically doped quantum dot. Nanoscience and Technology, 2010, , 131-150.	1.5	0
96	Conditions for generating squeezed phonon states in an optically excited quantum dot. , 2012, , .		0
97	Persistent intraband quantum beats and femtosecond hole relaxation in a single charged CdSe/ZnSe quantum dot. , 2020, , .		0