Manfred Bayer

List of Publications by Year
in descending order

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661 papers	19,444 citations	15495 65 h-index	20943 115 g-index
669 all docs	669 docs citations	669 times ranked	10506 citing authors

#	Article	IF	Citations
1	Fine structure of neutral and charged excitons in self-assembled In(Ga)As/(Al)GaAs quantum dots. Physical Review B, 2002, 65, .	1.1	933
2	Coupling and Entangling of Quantum States in Quantum Dot Molecules. Science, 2001, 291, 451-453.	6.0	759
3	Semiconductor quantum dots: Technological progress and future challenges. Science, 2021, 373, .	6.0	600
4	Enhanced magneto-optical effects in magnetoplasmonic crystals. Nature Nanotechnology, 2011, 6, 370-376.	15.6	498
5	Temperature dependence of the exciton homogeneous linewidth inIn0.60Ga0.40As/GaAsself-assembled quantum dots. Physical Review B, 2002, 65, .	1.1	417
6	Mode Locking of Electron Spin Coherences in Singly Charged Quantum Dots. Science, 2006, 313, 341-345.	6.0	409
7	Hidden symmetries in the energy levels of excitonic â€˜artificial atomsâ€™. Nature, 2000, 405, 923-926.	13.7	401
8	Electron and HolegFactors and Exchange Interaction from Studies of the Exciton Fine Structure inIn0.60Ga0.40AsQuantum Dots. Physical Review Letters, 1999, 82, 1748-1751.	2.9	378
9	Optical Modes in Photonic Molecules. Physical Review Letters, 1998, 81, 2582-2585.	2.9	359
10	Giant Rydberg excitons in the copper oxide Cu2O. Nature, 2014, 514, 343-347.	13.7	273
11	Thermal activation of non-radiative Auger recombination in charged colloidal nanocrystals. Nature Nanotechnology, 2013, 8, 206-212.	15.6	219
12	Nuclei-Induced Frequency Focusing of Electron Spin Coherence. Science, 2007, 317, 1896-1899.	6.0	218
13	Ultrafast optical rotations of electron spins in quantum dots. Nature Physics, 2009, 5, 262-266.	6.5	211
14	Optical Detection of the Aharonov-Bohm Effect on a Charged Particle in a Nanoscale Quantum Ring. Physical Review Letters, 2003, 90, 186801.	2.9	206
15	Inhibition and Enhancement of the Spontaneous Emission of Quantum Dots in Structured Microresonators. Physical Review Letters, 2001, 86, 3168-3171.	2.9	200
16	Direct observation of correlations between individual photon emission events of a microcavity laser. Nature, 2009, 460, 245-249.	13.7	194
17	Optical Control of Spin Coherence in Singly Charged(In,Ga)As/GaAsQuantum Dots. Physical Review Letters, 2006, 96, 227401.	2.9	193
18	Plasmon-mediated magneto-optical transparency. Nature Communications, 2013, 4, 2128.	5.8	180

#	Article	IF	Citations
19	Coherent Magnetization Precession in Ferromagnetic (Ga,Mn)As Induced by Picosecond Acoustic Pulses. Physical Review Letters, 2010, 105, 117204.	2.9	170
20	Control of Vertically CoupledInGaAs/GaAsQuantum Dots with Electric Fields. Physical Review Letters, 2005, 94, 157401.	2.9	138
21	Spin Noise of Electrons and Holes in Self-Assembled Quantum Dots. Physical Review Letters, 2010, 104, 036601.	2.9	136
22	Zeeman splitting of excitons and biexcitons in singleIn0.60Ga0.40As/GaAsself-assembled quantum dots. Physical Review B, 1998, 58, R7508-R7511.	1.1	121
23	Exciton and trion dynamics in atomically thin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoSe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mo>Effect of localization. Physical Review B, 2016, 94, .	1.1	121
24	Giant photon bunching, superradiant pulse emission and excitation trapping in quantum-dot nanolasers. Nature Communications, 2016, 7, 11540.	5.8	120
25	Universal behavior of the electrongfactor inGaAsâˆ•AlxGa1âˆ’xAsquantum wells. Physical Review B, 2007, 75, .	1.1	118
26	Excitonic Absorption in a Quantum Dot. Physical Review Letters, 2000, 85, 389-392.	2.9	116
27	Exciton binding energies and diamagnetic shifts in semiconductor quantum wires and quantum dots. Physical Review B, 1998, 57, 6584-6591.	1.1	113
28	Weak and strong coupling of photons and excitons in photonic dots. Physical Review B, 1998, 57, 9950-9956.	1.1	112
29	Excitonic Energy Shell Structure of Self-Assembled InGaAs/GaAs Quantum Dots. Physical Review Letters, 2004, 92, 187402.	2.9	111
30	Spectroscopic study of dark excitons inInxGa1âˆ’xAsself-assembled quantum dots by a magnetic-field-induced symmetry breaking. Physical Review B, 2000, 61, 7273-7276.	1.1	109
31	Recombination Dynamics of Band Edge Excitons in Quasi-Two-Dimensional CdSe Nanoplatelets. Nano Letters, 2014, 14, 1134-1139.	4.5	109
32	Higher-Order Photon Bunching in a Semiconductor Microcavity. Science, 2009, 325, 297-300.	6.0	106
33	Compressive adaptive computational ghost imaging. Scientific Reports, 2013, 3, 1545.	1.6	104
34	Negatively Charged and Dark Excitons in CsPbBr₃ Perovskite Nanocrystals Revealed by High Magnetic Fields. Nano Letters, 2017, 17, 6177-6183.	4.5	103
35	Exciton Dephasing in Quantum Dot Molecules. Physical Review Letters, 2003, 91, 267401.	2.9	100
36	Coherent spin dynamics of electrons and holes in CsPbBr3 perovskite crystals. Nature Communications, 2019, 10, 673.	5.8	100

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37	Hypersonic Modulation of Light in Three-Dimensional Photonic and Phononic Band-Gap Materials. Physical Review Letters, 2008, 101, 033902.	2.9	98
38	Exciton complexes inInxGa1â^'xAs/GaAsquantum dots. Physical Review B, 1998, 58, 4740-4753.	1.1	95
39	Optical Demonstration of a Crystal Band Structure Formation. Physical Review Letters, 1999, 83, 5374-5377.	2.9	91
40	Addressing the exciton fine structure in colloidal nanocrystals: the case of CdSe nanoplatelets. Nanoscale, 2018, 10, 646-656.	2.8	89
41	Spin coherence of a two-dimensional electron gas induced by resonant excitation of trions and excitons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Cd</mml:mi><mml:mi mathvariant="normal">Te</mml:mi><mml:mo>â^•</mml:mo><mml:mrow><mml:mo>(</mml:mo><mml:mi) Tj ETQq1 1 0.784314 rgBT / mathvariant="normal	1.1	83
42	Enhanced light-matter interaction in an atomically thin semiconductor coupled with dielectric nano-antennas. Nature Communications, 2019, 10, 5119.	5.8	87
43	Quantum chaos and breaking of all anti-unitary symmetries in Rydberg excitons. Nature Materials, 2016, 15, 741-745.	13.3	84
44	Zeeman spin splittings in semiconductor nanostructures. Physical Review B, 2001, 63, .	1.1	82
45	Tuning of the transverse magneto-optical Kerr effect in magneto-plasmonic crystals. New Journal of Physics, 2013, 15, 075024.	1.2	80
46	Observation of High Angular Momentum Excitons in Cuprous Oxide. Physical Review Letters, 2015, 115, 027402.	2.9	79
47	Electron-Hole Transitions between States with Nonzero Angular Momenta in the Magnetoluminescence of Quantum Dots. Physical Review Letters, 1995, 74, 3439-3442.	2.9	78
48	Direct and indirect excitons in coupled GaAs/Al0.30Ga0.70As double quantum wells separated by AlAs barriers. Physical Review B, 1996, 54, 8799-8808.	1.1	78
49	Intrinsic Spin Fluctuations Reveal the Dynamical Response Function of Holes Coupled to Nuclear Spin Baths in (In,Ga)As Quantum Dots. Physical Review Letters, 2012, 108, 186603.	2.9	77
50	Reduced Charge Transfer Exciton Recombination in Organic Semiconductor Heterojunctions by Molecular Doping. Physical Review Letters, 2011, 107, 127402.	2.9	76
51	Optical Spectroscopy of Spin Noise. Physical Review Letters, 2013, 110, 176601.	2.9	76
52	Photoluminescence of two-dimensional GaTe and GaSe films. 2D Materials, 2015, 2, 035010.	2.0	76
53	Angle dependence of the spontaneous emission from confined optical modes in photonic dots. Physical Review B, 1999, 59, 2223-2229.	1.1	75
54	Fine Structure of Excitons inInAs/GaAsCoupled Quantum Dots: A Sensitive Test of Electronic Coupling. Physical Review Letters, 2003, 90, 086404.	2.9	75

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55	Spin Coherence of Holes in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>GaAs</mml:mi><mml:mo>/</mml:mo><mml:mo stretchy="false">(</mml:mo><mml:mi>Al</mml:mi><mml:mo>,</mml:mo><mml:mi>Ga</mml:mi><mml:mo) Tj ET Q q 1 1 0.784314 rg BT Letters, 2007, 99, 187401.	2.9	84
56	Waveguide-Plasmon Polaritons Enhance Transverse Magneto-Optical Kerr Effect. Physical Review X, 2013, 3, .	2.8	75
57	Laser mode feeding by shaking quantum dots in a planar microcavity. Nature Photonics, 2012, 6, 30-34.	15.6	74
58	Access to long-term optical memories using photon echoes retrieved from semiconductor spins. Nature Photonics, 2014, 8, 851-857.	15.6	74
59	Subsecond Spin Relaxation Times in Quantum Dots at Zero Applied Magnetic Field Due to a Strong Electron-Nuclear Interaction. Physical Review Letters, 2007, 98, 107401.	2.9	73
60	From polariton condensates to highly photonic quantum degenerate states of bosonic matter. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1804-1809.	3.3	68
61	Deviations of the exciton level spectrum in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:math>from the hydrogen series. Physical Review B, 2016, 93, .	1.1	68
62	Ultranarrow Optical Absorption and Two-Phonon Excitation Spectroscopy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:math>Paraexcitons in a High Magnetic Field. Physical Review Letters, 2007, 99, 217403.	2.9	67
63	Effect of thermal annealing on the hyperfine interaction in InAs/GaAs quantum dots. Physical Review B, 2008, 78, .	1.1	66
64	Exciton fine structure inInGaAsâˆ•GaAsquantum dots revisited by pump-probe Faraday rotation. Physical Review B, 2007, 75, .	1.1	65
65	Excitation of spin waves in ferromagnetic (Ga,Mn)As layers by picosecond strain pulses. Physical Review B, 2012, 85, .	1.1	65
66	Band-Edge Exciton Fine Structure and Recombination Dynamics in InP/ZnS Colloidal Nanocrystals. ACS Nano, 2016, 10, 3356-3364.	7.3	65
67	Spin dynamics of negatively charged excitons in CdSe/CdS colloidal nanocrystals. Physical Review B, 2013, 88, .	1.1	64
68	Ultrafast Band-Gap Shift Induced by a Strain Pulse in Semiconductor Heterostructures. Physical Review Letters, 2006, 97, 037401.	2.9	62
69	Exciton lifetime inInAsâˆ•GaAsquantum dot molecules. Physical Review B, 2005, 72, .	1.1	60
70	Ultrafast stop band kinetics in a three-dimensional opal-VO2photonic crystal controlled by a photoinduced semiconductor-metal phase transition. Physical Review B, 2007, 75, .	1.1	60
71	Plasmonic crystals for ultrafast nanophotonics: Optical switching of surface plasmon polaritons. Physical Review B, 2012, 85, .	1.1	58
72	Second-harmonic generation spectroscopy of excitons in ZnO. Physical Review B, 2013, 88, .	1.1	58

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73	Negatively Charged Excitons in CdSe Nanoplatelets. Nano Letters, 2020, 20, 1370-1377.	4.5	58
74	Temperature dependence of the excitonic band gap inInxGa1â^'xAsâ^•GaAsself-assembled quantum dots. Physical Review B, 2005, 72, .	1.1	56
75	Characterization of two-threshold behavior of the emission from a GaAs microcavity. Physical Review B, 2012, 85, .	1.1	56
76	Scaling laws of Rydberg excitons. Physical Review B, 2017, 96, .	1.1	56
77	Dielectric enhancement of excitons in near-surface quantum wells. Physical Review B, 1996, 54, R2335-R2338.	1.1	55
78	Resonant driving of magnetization precession in a ferromagnetic layer by coherent monochromatic phonons. Physical Review B, 2015, 92, .	1.1	55
79	Confined optical modes in photonic wires. Physical Review B, 1998, 58, 15744-15748.	1.1	54
80	Coherent spin dynamics of electrons and holes in semiconductor quantum wells and quantum dots under periodical optical excitation: Resonant spin amplification versus spin mode locking. Physical Review B, 2012, 85, .	1.1	54
81	Two-colour spin noise spectroscopy and fluctuation correlations reveal homogeneous linewidths within quantum-dot ensembles. Nature Communications, 2014, 5, 4949.	5.8	54
82	Tailored quantum dots for entangled photon pair creation. Physical Review B, 2006, 73, .	1.1	53
83	Dynamic spin polarization by orientation-dependent separation in a ferromagnetâ€“semiconductor hybrid. Nature Communications, 2012, 3, 959.	5.8	53
84	Picosecond inverse magnetostriction in galfenol thin films. Applied Physics Letters, 2013, 103, .	1.5	52
85	Coherent Acoustic Phonons in Colloidal Semiconductor Nanocrystal Superlattices. ACS Nano, 2016, 10, 1163-1169.	7.3	52
86	Polariton-polariton scattering in semiconductor microcavities: Experimental observation of thresholdlike density dependence. Physical Review B, 2000, 61, R2409-R2412.	1.1	51
87	Coherent and incoherent polaritonic gain in a planar semiconductor microcavity. Physical Review B, 2000, 62, 13076-13083.	1.1	51
88	Polarization inversion via parametric scattering in quasi-one-dimensional microcavities. Physical Review B, 2005, 71, .	1.1	50
89	Influence of confinement on biexciton binding in semiconductor quantum dot ensembles measured with two-dimensional spectroscopy. Physical Review B, 2013, 87, .	1.1	50
90	Generation of spin waves by a train of fs-laser pulses: a novel approach for tuning magnon wavelength. Scientific Reports, 2017, 7, 5668.	1.6	50

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91	Electron and Hole g-Factors and Spin Dynamics of Negatively Charged Excitons in CdSe/CdS Colloidal Nanoplatelets with Thick Shells. Nano Letters, 2018, 18, 373-380.	4.5	50
92	Carrier relaxation dynamics in self-assembled semiconductor quantum dots. Physical Review B, 2009, 80, .	1.1	49
93	All-optical flow control of a polariton condensate using nonresonant excitation. Physical Review B, 2015, 91, .	1.1	48
94	High-resolution study of the yellow excitons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mathvariant="normal">O</mml:mi></mml:mrow></mml:math>subject to an electric field. Physical Review B, 2017, 95, .	1.1	48
95	Enhancement of spontaneous emission rates by three-dimensional photon confinement in Bragg microcavities. Physical Review B, 1997, 56, R4367-R4370.	1.1	47
96	Fine structure in the excitonic emission ofInAsâˆ•GaAsquantum dot molecules. Physical Review B, 2005, 71, .	1.1	47
97	Long-range pâ€“d exchange interaction in a ferromagnetâ€“semiconductor hybrid structure. Nature Physics, 2016, 12, 85-91.	6.5	47
98	Magnon polaron formed by selectively coupled coherent magnon and phonon modes of a surface patterned ferromagnet. Physical Review B, 2020, 102, .	1.1	47
99	Spin-Induced Optical Second Harmonic Generation in the Centrosymmetric Magnetic Semiconductors EuTe and EuSe. Physical Review Letters, 2009, 103, 057203.	2.9	45
100	Optical spectroscopy of a singleAl0.36In0.64As/Al0.33Ga0.67Asquantum dot. Physical Review B, 2001, 63, .	1.1	44
101	Tailoring the polariton dispersion by optical confinement:â€ƒAccess to a manifold of elastic polariton pair scattering channels. Physical Review B, 2002, 66, .	1.1	44
102	Coherent Coupling of Excitons and Trions in a Photoexcited CdTe/CdMgTe Quantum Well. Physical Review Letters, 2014, 112, 097401.	2.9	44
103	Magnetic polaron on dangling-bond spins in CdSe colloidal nanocrystals. Nature Nanotechnology, 2017, 12, 569-574.	15.6	44
104	Chirping of an Optical Transition by an Ultrafast Acoustic Soliton Train in a Semiconductor Quantum Well. Physical Review Letters, 2007, 99, 057402.	2.9	43
105	Fifth-order nonlinear optical response of excitonic states in an InAs quantum dot ensemble measured with two-dimensional spectroscopy. Physical Review B, 2013, 87, .	1.1	43
106	Exciton recombination dynamics in an ensemble of (In,Al)As/AlAs quantum dots with indirect band-gap and type-I band alignment. Physical Review B, 2011, 84, .	1.1	42
107	Optical properties and electronic structure of multiferroic hexagonal orthoferrites RFeO3 (Râ€‰=â€‰Ho, Er, Lu). Journal of Applied Physics, 2012, 111, .	1.1	42
108	Tuning Energy Splitting and Recombination Dynamics of Dark and Bright Excitons in CdSe/CdS Dot-in-Rod Colloidal Nanostructures. Journal of Physical Chemistry C, 2014, 118, 22309-22316.	1.5	42

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109	Quantum technology: from research to application. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	42
110	Signatures of Quantum Coherences in Rydberg Excitons. Physical Review Letters, 2016, 117, 133003.	2.9	42
111	Spin coherence of two-dimensional electron gas in CdTe/(Cd,Mg)Te quantum wells. Physica Status Solidi (B): Basic Research, 2006, 243, 878-881.	0.7	41
112	Anisotropy of electron and hole g-factors in (In,Ga)As quantum dots. Applied Physics Letters, 2011, 99, .	1.5	41
113	Magnetoexcitons in cuprous oxide. Physical Review B, 2017, 95, .	1.1	41
114	Biexcitons in semiconductor quantum wires. Physical Review B, 1998, 58, R1750-R1753.	1.1	40
115	Distribution of antiferromagnetic spin and twin domains in NiO. Physical Review B, 2006, 74, .	1.1	40
116	Correlations between magnetic and electrical orderings in multiferroic manganites (invited). Journal of Applied Physics, 2006, 99, 08E302.	1.1	40
117	Temperature dependence of the zero-phonon linewidth inInAsâˆ•GaAsquantum dots. Physical Review B, 2004, 70, .	1.1	39
118	Magnetophotonic intensity effects in hybrid metal-dielectric structures. Physical Review B, 2014, 89, .	1.1	39
119	Influence of the Nuclear Electric Quadrupolar Interaction on the Coherence Time of Hole and Electron Spins Confined in Semiconductor Quantum Dots. Physical Review Letters, 2015, 115, 207401.	2.9	39
120	Correlated photon-pair emission from a charged single quantum dot. Physical Review B, 2005, 71, .	1.1	38
121	Ultrafast tracking of second-order photon correlations in the emission of quantum-dot microresonator lasers. Physical Review B, 2010, 81, .	1.1	38
122	Measuring the dynamics of second-order photon correlation functions inside a pulse with picosecond time resolution. Optics Express, 2010, 18, 20229.	1.7	38
123	Spin dephasing of fluorine-bound electrons in ZnSe. Physical Review B, 2012, 85, .	1.1	38
124	Strong variation of the excitongfactors in self-assembledIn0.60Ga0.40Asquantum dots. Physical Review B, 1999, 60, R8481-R8484.	1.1	37
125	Radiative emission dynamics of quantum dots in a single cavity micropillar. Physical Review B, 2006, 74, .	1.1	37
126	Spin-lattice relaxation of Mn ions inZnMnSeâˆ•ZnBeSequantum wells measured under pulsed photoexcitation. Physical Review B, 2006, 73, .	1.1	37

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127	Long-Term Hole Spin Memory in the Resonantly Amplified Spin Coherence of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>InGaAs</mml:mi><mml:mo>/</mml:mo><mml:mi>GaAs</mml:mi></mml:math>Quantum Well Electrons. Physical Review Letters, 2009, 102, 167402.	2.9	37
128	Lasing from active optomechanical resonators. Nature Communications, 2014, 5, 4038.	5.8	37
129	Rydberg Excitons in the Presence of an Ultralow-Density Electron-Hole Plasma. Physical Review Letters, 2018, 121, 097401.	2.9	37
130	Direct energy transfer from photocarriers to Mn-ion system in II-VI diluted-magnetic-semiconductor quantum wells. Physical Review B, 2006, 73, .	1.1	36
131	Magnetic-Field Control of Photon Echo from the Electron-Trion System in a CdTe Quantum Well: Shuffling Coherence between Optically Accessible and Inaccessible States. Physical Review Letters, 2012, 109, 157403.	2.9	36
132	Transformation of mode polarization in gyrotropic plasmonic waveguides. Laser Physics, 2014, 24, 094006.	0.6	36
133	Longitudinal and transverse spin dynamics of donor-bound electrons in fluorine-doped ZnSe: Spin inertia versus Hanle effect. Physical Review B, 2015, 91, .	1.1	36
134	Ultrafast control of light emission from a quantum-well semiconductor microcavity using picosecond strain pulses. Physical Review B, 2008, 78, .	1.1	35
135	Long-lived electron spin coherence in CdSe/Zn(S,Se) self-assembled quantum dots. Physical Review B, 2011, 84, .	1.1	35
136	Magnetization precession induced by quasitransverse picosecond strain pulses in (311) ferromagnetic (Ga,Mn)As. Physical Review B, 2013, 87, .	1.1	35
137	Magnon Accumulation by Clocked Laser Excitation as Source of Long-Range Spin Waves in Transparent Magnetic Films. Physical Review X, 2017, 7, .	2.8	35
138	Wave-Vector-Dependent Exciton Exchange Interaction. Physical Review Letters, 2003, 91, 107401.	2.9	34
139	Linear and nonlinear optical spectroscopy of gadolinium iron borate GdFe3(BO3)4. JETP Letters, 2004, 80, 293-297.	0.4	34
140	Bridging Two Worlds: Colloidal versus Epitaxial Quantum Dots. Annalen Der Physik, 2019, 531, 1900039.	0.9	34
141	Magnetic-Field-Induced Second-Harmonic Generation in Semiconductor GaAs. Physical Review Letters, 2005, 94, 157404.	2.9	33
142	Energy relaxation of electrons inInAsâˆ•GaAsquantum dot molecules. Physical Review B, 2005, 72, .	1.1	33
143	Dynamics of the nuclear spin polarization by optically oriented electrons in a (In,Ga)As/GaAs quantum dot ensemble. Physical Review B, 2009, 80, .	1.1	33
144	Effect of pump-probe detuning on the Faraday rotation and ellipticity signals of mode-locked spins in (In,Ga)As/GaAs quantum dots. Physical Review B, 2010, 82, .	1.1	33

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145	Spin noise of electrons and holes in (In,Ga)As quantum dots: Experiment and theory. Physical Review B, 2016, 93, .	1.1	33
146	Synthesis and Optical Characterization of Hybrid Organicâ€“Inorganic Heterofluorene Polymers. Macromolecules, 2017, 50, 2338-2343.	2.2	33
147	Leadâ€Dominated Hyperfine Interaction Impacting the Carrier Spin Dynamics in Halide Perovskites. Advanced Materials, 2022, 34, e2105263.	11.1	33
148	Parametric polariton scattering in microresonators with three-dimensional optical confinement. Physical Review B, 2001, 64, .	1.1	32
149	Wave-vector-dependent exchange interaction and its relevance for the effective exciton mass inCu2O. Physical Review B, 2004, 70, .	1.1	32
150	Robust manipulation of electron spin coherence in an ensemble of singly charged quantum dots. Physical Review B, 2007, 75, .	1.1	32
151	Collective single-mode precession of electron spins in an ensemble of singly charged (In,Ga)As/GaAs quantum dots. Physical Review B, 2009, 79, .	1.1	32
152	Spin Noise Spectroscopy Beyond Thermal Equilibrium and Linear Response. Physical Review Letters, 2014, 113, 156601.	2.9	32
153	Dynamic Evolution from Negative to Positive Photocharging in Colloidal CdS Quantum Dots. Nano Letters, 2017, 17, 2844-2851.	4.5	32
154	Surface spin magnetism controls the polarized exciton emission from CdSe nanoplatelets. Nature Nanotechnology, 2020, 15, 277-282.	15.6	32
155	Systematic study of carrier correlations in the electron-hole recombination dynamics of quantum dots. Physical Review B, 2007, 76, .	1.1	31
156	Theory of magnetization precession induced by a picosecond strain pulse in ferromagnetic semiconductor (Ga,Mn)As. Physical Review B, 2011, 84, .	1.1	31
157	Coherent Control of the Exciton-Biexciton System in an InAs Self-Assembled Quantum Dot Ensemble. Physical Review Letters, 2016, 117, 157402.	2.9	31
158	Semiconductor Rydberg Physics. Advanced Quantum Technologies, 2020, 3, 1900134.	1.8	31
159	Interwell excitons in GaAs superlattices. Physical Review B, 1996, 54, 10316-10319.	1.1	30
160	Photoreflectance spectroscopy of vertically coupled InGaAs/GaAs double quantum dots. Solid State Communications, 2001, 117, 401-406.	0.9	30
161	Temperature dependence of optical linewidth in single InAs quantum dots. Physical Review B, 2006, 74, .	1.1	30
162	Time-resolved and continuous-wave optical spin pumping of semiconductor quantum wells. Semiconductor Science and Technology, 2008, 23, 114001.	1.0	30

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163	Optically detected magnetic resonance at the quadrupole-split nuclear states in (In,Ga)As/GaAs quantum dots. Physical Review B, 2010, 82, .	1.1	30
164	Positively versus negatively charged excitons: A high magnetic field study of CdTe/Cd1â^'xMgxTe quantum wells. Physical Review B, 2011, 83, .	1.1	30
165	Spin-flip Raman scattering of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î“</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>X</mml:mi></mml:mrow></mml:math> exciton in indirect band gap (In,Al)As/AlAs quantum dots. Physical Review B, 2014, 90, .	1.1	30
166	Ground-state emission from a singleInAsâ•GaAsself-assembled quantum dot structure in ultrahigh magnetic fields. Physical Review B, 2006, 74, .	1.1	29
167	Optical bandpass switching by modulating a microcavity using ultrafast acoustics. Physical Review B, 2010, 81, .	1.1	29
168	Spin-flip Raman scattering of the neutral and charged excitons confined in a CdTe/(Cd,Mg)Te quantum well. Physical Review B, 2013, 87, .	1.1	29
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