

Manfred Bayer

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583
papers

15,448
citations

57
h-index

104
g-index

669
ext. papers

17,740
ext. citations

5.1
avg, IF

6.32
L-index

#	Paper	IF	Citations
583	Fine structure of neutral and charged excitons in self-assembled In(Ga)As/(Al)GaAs quantum dots. <i>Physical Review B</i> , 2002 , 65,	3.3	837
582	Coupling and entangling of quantum states in quantum dot molecules. <i>Science</i> , 2001 , 291, 451-3	33.3	691
581	Enhanced magneto-optical effects in magnetoplasmonic crystals. <i>Nature Nanotechnology</i> , 2011 , 6, 370-628.7	40.1	
580	Temperature dependence of the exciton homogeneous linewidth in In _{0.60} Ga _{0.40} As/GaAs self-assembled quantum dots. <i>Physical Review B</i> , 2002 , 65,	3.3	372
579	Hidden symmetries in the energy levels of excitonic artificial atoms. <i>Nature</i> , 2000 , 405, 923-6	50.4	367
578	Electron and Hole g Factors and Exchange Interaction from Studies of the Exciton Fine Structure in In _{0.60} Ga _{0.40} As Quantum Dots. <i>Physical Review Letters</i> , 1999 , 82, 1748-1751	7.4	360
577	Mode locking of electron spin coherences in singly charged quantum dots. <i>Science</i> , 2006 , 313, 341-5	33.3	349
576	Optical Modes in Photonic Molecules. <i>Physical Review Letters</i> , 1998 , 81, 2582-2585	7.4	289
575	Giant Rydberg excitons in the copper oxide Cu ₂ O. <i>Nature</i> , 2014 , 514, 343-7	50.4	197
574	Optical detection of the Aharonov-Bohm effect on a charged particle in a nanoscale quantum ring. <i>Physical Review Letters</i> , 2003 , 90, 186801	7.4	188
573	Nuclei-induced frequency focusing of electron spin coherence. <i>Science</i> , 2007 , 317, 1896-9	33.3	187
572	Ultrafast optical rotations of electron spins in quantum dots. <i>Nature Physics</i> , 2009 , 5, 262-266	16.2	183
571	Thermal activation of non-radiative Auger recombination in charged colloidal nanocrystals. <i>Nature Nanotechnology</i> , 2013 , 8, 206-12	28.7	178
570	Optical control of spin coherence in singly charged (In,Ga)As/GaAs quantum dots. <i>Physical Review Letters</i> , 2006 , 96, 227401	7.4	176
569	Inhibition and enhancement of the spontaneous emission of quantum dots in structured microresonators. <i>Physical Review Letters</i> , 2001 , 86, 3168-71	7.4	171
568	Direct observation of correlations between individual photon emission events of a microcavity laser. <i>Nature</i> , 2009 , 460, 245-9	50.4	167
567	Plasmon-mediated magneto-optical transparency. <i>Nature Communications</i> , 2013 , 4, 2128	17.4	144

566	Semiconductor quantum dots: Technological progress and future challenges. <i>Science</i> , 2021 , 373,	33.3	138
565	Coherent magnetization precession in ferromagnetic (Ga,Mn)As induced by picosecond acoustic pulses. <i>Physical Review Letters</i> , 2010 , 105, 117204	7.4	132
564	Control of vertically coupled InGaAs/GaAs quantum dots with electric fields. <i>Physical Review Letters</i> , 2005 , 94, 157401	7.4	127
563	Spin noise of electrons and holes in self-assembled quantum dots. <i>Physical Review Letters</i> , 2010 , 104, 036601	7.4	121
562	Zeeman splitting of excitons and biexcitons in single In _{0.60} Ga _{0.40} As/GaAs self-assembled quantum dots. <i>Physical Review B</i> , 1998 , 58, R7508-R7511	3.3	114
561	Excitonic absorption in a quantum Dot. <i>Physical Review Letters</i> , 2000 , 85, 389-92	7.4	107
560	Excitonic energy shell structure of self-assembled InGaAs/GaAs quantum dots. <i>Physical Review Letters</i> , 2004 , 92, 187402	7.4	103
559	Universal behavior of the electron g factor in GaAs _{1-x} Ga _x As quantum wells. <i>Physical Review B</i> , 2007 , 75,	3.3	102
558	Spectroscopic study of dark excitons in In _x Ga _{1-x} As self-assembled quantum dots by a magnetic-field-induced symmetry breaking. <i>Physical Review B</i> , 2000 , 61, 7273-7276	3.3	100
557	Exciton binding energies and diamagnetic shifts in semiconductor quantum wires and quantum dots. <i>Physical Review B</i> , 1998 , 57, 6584-6591	3.3	98
556	Weak and strong coupling of photons and excitons in photonic dots. <i>Physical Review B</i> , 1998 , 57, 9950-9956	3.3	98
555	Recombination dynamics of band edge excitons in quasi-two-dimensional CdSe nanoplatelets. <i>Nano Letters</i> , 2014 , 14, 1134-9	11.5	95
554	Exciton dephasing in quantum dot molecules. <i>Physical Review Letters</i> , 2003 , 91, 267401	7.4	92
553	Higher-order photon bunching in a semiconductor microcavity. <i>Science</i> , 2009 , 325, 297-300	33.3	91
552	Exciton and trion dynamics in atomically thin MoSe ₂ and WSe ₂ : Effect of localization. <i>Physical Review B</i> , 2016 , 94,	3.3	88
551	Hypersonic modulation of light in three-dimensional photonic and phononic band-gap materials. <i>Physical Review Letters</i> , 2008 , 101, 033902	7.4	87
550	Optical Demonstration of a Crystal Band Structure Formation. <i>Physical Review Letters</i> , 1999 , 83, 5374-5377	7.4	85
549	Exciton complexes in In _x Ga _{1-x} As/GaAs quantum dots. <i>Physical Review B</i> , 1998 , 58, 4740-4753	3.3	84

548	Spin coherence of a two-dimensional electron gas induced by resonant excitation of trions and excitons in CdTe/(Cd,Mg)Te quantum wells. <i>Physical Review B</i> , 2007 , 76,	3.3	79
547	Negatively Charged and Dark Excitons in CsPbBr Perovskite Nanocrystals Revealed by High Magnetic Fields. <i>Nano Letters</i> , 2017 , 17, 6177-6183	11.5	78
546	Giant photon bunching, superradiant pulse emission and excitation trapping in quantum-dot nanolasers. <i>Nature Communications</i> , 2016 , 7, 11540	17.4	78
545	Intrinsic spin fluctuations reveal the dynamical response function of holes coupled to nuclear spin baths in (In,Ga)As quantum dots. <i>Physical Review Letters</i> , 2012 , 108, 186603	7.4	75
544	Direct and indirect excitons in coupled GaAs/Al _{0.30} Ga _{0.70} As double quantum wells separated by AlAs barriers. <i>Physical Review B</i> , 1996 , 54, 8799-8808	3.3	75
543	Electron-Hole Transitions between States with Nonzero Angular Momenta in the Magnetoluminescence of Quantum Dots. <i>Physical Review Letters</i> , 1995 , 74, 3439-3442	7.4	74
542	Zeeman spin splittings in semiconductor nanostructures. <i>Physical Review B</i> , 2001 , 63,	3.3	73
541	Compressive adaptive computational ghost imaging. <i>Scientific Reports</i> , 2013 , 3, 1545	4.9	72
540	Quantum chaos and breaking of all anti-unitary symmetries in Rydberg excitons. <i>Nature Materials</i> , 2016 , 15, 741-5	27	71
539	Fine structure of excitons in InAs/GaAs coupled quantum dots: a sensitive test of electronic coupling. <i>Physical Review Letters</i> , 2003 , 90, 086404	7.4	70
538	Angle dependence of the spontaneous emission from confined optical modes in photonic dots. <i>Physical Review B</i> , 1999 , 59, 2223-2229	3.3	69
537	Reduced charge transfer exciton recombination in organic semiconductor heterojunctions by molecular doping. <i>Physical Review Letters</i> , 2011 , 107, 127402	7.4	68
536	Tuning of the transverse magneto-optical Kerr effect in magneto-plasmonic crystals. <i>New Journal of Physics</i> , 2013 , 15, 075024	2.9	66
535	Subsecond spin relaxation times in quantum dots at zero applied magnetic field due to a strong electron-nuclear interaction. <i>Physical Review Letters</i> , 2007 , 98, 107401	7.4	66
534	Observation of High Angular Momentum Excitons in Cuprous Oxide. <i>Physical Review Letters</i> , 2015 , 115, 027402	7.4	63
533	Laser mode feeding by shaking quantum dots in a planar microcavity. <i>Nature Photonics</i> , 2012 , 6, 30-34	33.9	63
532	From polariton condensates to highly photonic quantum degenerate states of bosonic matter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1804-9	11.5	63
531	Spin coherence of holes in GaAs/(Al,Ga)As quantum wells. <i>Physical Review Letters</i> , 2007 , 99, 187401	7.4	63

530	Optical spectroscopy of spin noise. <i>Physical Review Letters</i> , 2013 , 110, 176601	7.4	61
529	Addressing the exciton fine structure in colloidal nanocrystals: the case of CdSe nanoplatelets. <i>Nanoscale</i> , 2018 , 10, 646-656	7.7	60
528	Exciton fine structure in InGaAs/GaAs quantum dots revisited by pump-probe Faraday rotation. <i>Physical Review B</i> , 2007 , 75,	3.3	58
527	Effect of thermal annealing on the hyperfine interaction in InAs/GaAs quantum dots. <i>Physical Review B</i> , 2008 , 78,	3.3	57
526	Ultrarrow optical absorption and two-phonon excitation spectroscopy of Cu2O paraexcitons in a high magnetic field. <i>Physical Review Letters</i> , 2007 , 99, 217403	7.4	57
525	Spin dynamics of negatively charged excitons in CdSe/CdS colloidal nanocrystals. <i>Physical Review B</i> , 2013 , 88,	3.3	56
524	Waveguide-Plasmon Polaritons Enhance Transverse Magneto-Optical Kerr Effect. <i>Physical Review X</i> , 2013 , 3,	9.1	56
523	Deviations of the exciton level spectrum in Cu2O from the hydrogen series. <i>Physical Review B</i> , 2016 , 93,	3.3	55
522	Ultrafast stop band kinetics in a three-dimensional opal-VO2 photonic crystal controlled by a photoinduced semiconductor-metal phase transition. <i>Physical Review B</i> , 2007 , 75,	3.3	55
521	Coherent spin dynamics of electrons and holes in CsPbBr perovskite crystals. <i>Nature Communications</i> , 2019 , 10, 673	17.4	54
520	Ultrafast band-gap shift induced by a strain pulse in semiconductor heterostructures. <i>Physical Review Letters</i> , 2006 , 97, 037401	7.4	54
519	Exciton lifetime in InAs/GaAs quantum dot molecules. <i>Physical Review B</i> , 2005 , 72,	3.3	52
518	Photoluminescence of two-dimensional GaTe and GaSe films. <i>2D Materials</i> , 2015 , 2, 035010	5.9	51
517	Characterization of two-threshold behavior of the emission from a GaAs microcavity. <i>Physical Review B</i> , 2012 , 85,	3.3	51
516	Excitation of spin waves in ferromagnetic (Ga,Mn)As layers by picosecond strain pulses. <i>Physical Review B</i> , 2012 , 85,	3.3	50
515	Plasmonic crystals for ultrafast nanophotonics: Optical switching of surface plasmon polaritons. <i>Physical Review B</i> , 2012 , 85,	3.3	49
514	Tailored quantum dots for entangled photon pair creation. <i>Physical Review B</i> , 2006 , 73,	3.3	49
513	Confined optical modes in photonic wires. <i>Physical Review B</i> , 1998 , 58, 15744-15748	3.3	49

512	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. <i>Physical Review B</i> , 2012 , 85,	3.3	48
511	Coherent Acoustic Phonons in Colloidal Semiconductor Nanocrystal Superlattices. <i>ACS Nano</i> , 2016 , 10, 1163-9	16.7	47
510	Carrier relaxation dynamics in self-assembled semiconductor quantum dots. <i>Physical Review B</i> , 2009 , 80,	3.3	47
509	Polarization inversion via parametric scattering in quasi-one-dimensional microcavities. <i>Physical Review B</i> , 2005 , 71,	3.3	47
508	Polariton-polariton scattering in semiconductor microcavities: Experimental observation of thresholdlike density dependence. <i>Physical Review B</i> , 2000 , 61, R2409-R2412	3.3	47
507	Dielectric enhancement of excitons in near-surface quantum wells. <i>Physical Review B</i> , 1996 , 54, R2335-R2338	3.3	47
506	Band-Edge Exciton Fine Structure and Recombination Dynamics in InP/ZnS Colloidal Nanocrystals. <i>ACS Nano</i> , 2016 , 10, 3356-64	16.7	46
505	Access to long-term optical memories using photon echoes retrieved from semiconductor spins. <i>Nature Photonics</i> , 2014 , 8, 851-857	33.9	46
504	Second-harmonic generation spectroscopy of excitons in ZnO. <i>Physical Review B</i> , 2013 , 88,	3.3	46
503	Temperature dependence of the excitonic band gap in In _x Ga _{1-x} As/GaAs self-assembled quantum dots. <i>Physical Review B</i> , 2005 , 72,	3.3	46
502	Fine structure in the excitonic emission of InAs/GaAs quantum dot molecules. <i>Physical Review B</i> , 2005 , 71,	3.3	46
501	Coherent and incoherent polaritonic gain in a planar semiconductor microcavity. <i>Physical Review B</i> , 2000 , 62, 13076-13083	3.3	45
500	Scaling laws of Rydberg excitons. <i>Physical Review B</i> , 2017 , 96,	3.3	44
499	Influence of confinement on biexciton binding in semiconductor quantum dot ensembles measured with two-dimensional spectroscopy. <i>Physical Review B</i> , 2013 , 87,	3.3	43
498	Enhancement of spontaneous emission rates by three-dimensional photon confinement in Bragg microcavities. <i>Physical Review B</i> , 1997 , 56, R4367-R4370	3.3	43
497	Enhanced light-matter interaction in an atomically thin semiconductor coupled with dielectric nano-antennas. <i>Nature Communications</i> , 2019 , 10, 5119	17.4	42
496	Picosecond inverse magnetostriction in galphenol thin films. <i>Applied Physics Letters</i> , 2013 , 103, 032409	3.4	42
495	Dynamic spin polarization by orientation-dependent separation in a ferromagnet-semiconductor hybrid. <i>Nature Communications</i> , 2012 , 3, 959	17.4	41

494	Resonant driving of magnetization precession in a ferromagnetic layer by coherent monochromatic phonons. <i>Physical Review B</i> , 2015 , 92,	3.3	40
493	Spin coherence of two-dimensional electron gas in CdTe/(Cd,Mg)Te quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 878-881	1.3	40
492	Optical spectroscopy of a single Al _{0.36} In _{0.64} As/Al _{0.33} Ga _{0.67} As quantum dot. <i>Physical Review B</i> , 2001 , 63,	3.3	40
491	High-resolution study of the yellow excitons in Cu ₂ O subject to an electric field. <i>Physical Review B</i> , 2017 , 95,	3.3	38
490	Two-colour spin noise spectroscopy and fluctuation correlations reveal homogeneous linewidths within quantum-dot ensembles. <i>Nature Communications</i> , 2014 , 5, 4949	17.4	38
489	Spin-induced optical second harmonic generation in the centrosymmetric magnetic semiconductors EuTe and EuSe. <i>Physical Review Letters</i> , 2009 , 103, 057203	7.4	38
488	Tailoring the polariton dispersion by optical confinement: Access to a manifold of elastic polariton pair scattering channels. <i>Physical Review B</i> , 2002 , 66,	3.3	38
487	Chirping of an optical transition by an ultrafast acoustic soliton train in a semiconductor quantum well. <i>Physical Review Letters</i> , 2007 , 99, 057402	7.4	37
486	Correlated photon-pair emission from a charged single quantum dot. <i>Physical Review B</i> , 2005 , 71,	3.3	37
485	Biexcitons in semiconductor quantum wires. <i>Physical Review B</i> , 1998 , 58, R1750-R1753	3.3	37
484	Electron and Hole g-Factors and Spin Dynamics of Negatively Charged Excitons in CdSe/CdS Colloidal Nanoplatelets with Thick Shells. <i>Nano Letters</i> , 2018 , 18, 373-380	11.5	36
483	Long-range p-d exchange interaction in a ferromagnetic semiconductor hybrid structure. <i>Nature Physics</i> , 2016 , 12, 85-91	16.2	35
482	Magnetic polaron on dangling-bond spins in CdSe colloidal nanocrystals. <i>Nature Nanotechnology</i> , 2017 , 12, 569-574	28.7	35
481	Magnetoexcitons in cuprous oxide. <i>Physical Review B</i> , 2017 , 95,	3.3	35
480	Tuning Energy Splitting and Recombination Dynamics of Dark and Bright Excitons in CdSe/CdS Dot-in-Rod Colloidal Nanostructures. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22309-22316	3.8	35
479	Coherent coupling of excitons and trions in a photoexcited CdTe/CdMgTe quantum well. <i>Physical Review Letters</i> , 2014 , 112, 097401	7.4	35
478	Fifth-order nonlinear optical response of excitonic states in an InAs quantum dot ensemble measured with two-dimensional spectroscopy. <i>Physical Review B</i> , 2013 , 87,	3.3	35
477	Anisotropy of electron and hole g-factors in (In,Ga)As quantum dots. <i>Applied Physics Letters</i> , 2011 , 99, 221914	3.4	35

476	Direct energy transfer from photocarriers to Mn-ion system in II-VI diluted-magnetic-semiconductor quantum wells. <i>Physical Review B</i> , 2006 , 73,	3-3	35
475	Spin-lattice relaxation of Mn ions in ZnMnSe/ZnBeSe quantum wells measured under pulsed photoexcitation. <i>Physical Review B</i> , 2006 , 73,	3-3	35
474	Strong variation of the exciton g factors in self-assembled In _{0.60} Ga _{0.40} As quantum dots. <i>Physical Review B</i> , 1999 , 60, R8481-R8484	3-3	35
473	Long-term hole spin memory in the resonantly amplified spin coherence of InGaAs/GaAs quantum well electrons. <i>Physical Review Letters</i> , 2009 , 102, 167402	7-4	34
472	Correlations between magnetic and electrical orderings in multiferroic manganites (invited). <i>Journal of Applied Physics</i> , 2006 , 99, 08E302	2-5	34
471	Negatively Charged Excitons in CdSe Nanoplatelets. <i>Nano Letters</i> , 2020 , 20, 1370-1377	11-5	33
470	All-optical flow control of a polariton condensate using nonresonant excitation. <i>Physical Review B</i> , 2015 , 91,	3-3	33
469	Measuring the dynamics of second-order photon correlation functions inside a pulse with picosecond time resolution. <i>Optics Express</i> , 2010 , 18, 20229-41	3-3	33
468	Radiative emission dynamics of quantum dots in a single cavity micropillar. <i>Physical Review B</i> , 2006 , 74,	3-3	33
467	Ultrafast tracking of second-order photon correlations in the emission of quantum-dot microresonator lasers. <i>Physical Review B</i> , 2010 , 81,	3-3	32
466	Long-lived electron spin coherence in CdSe/Zn(S,Se) self-assembled quantum dots. <i>Physical Review B</i> , 2011 , 84,	3-3	32
465	Energy relaxation of electrons in InAs/GaAs quantum dot molecules. <i>Physical Review B</i> , 2005 , 72,	3-3	32
464	Temperature dependence of the zero-phonon linewidth in InAs/GaAs quantum dots. <i>Physical Review B</i> , 2004 , 70,	3-3	32
463	Linear and nonlinear optical spectroscopy of gadolinium iron borate GdFe ₃ (BO ₃) ₄ . <i>JETP Letters</i> , 2004 , 80, 293-297	1-2	32
462	Signatures of Quantum Coherences in Rydberg Excitons. <i>Physical Review Letters</i> , 2016 , 117, 133003	7-4	32
461	Influence of the Nuclear Electric Quadrupolar Interaction on the Coherence Time of Hole and Electron Spins Confined in Semiconductor Quantum Dots. <i>Physical Review Letters</i> , 2015 , 115, 207401	7-4	31
460	Distribution of antiferromagnetic spin and twin domains in NiO. <i>Physical Review B</i> , 2006 , 74,	3-3	31
459	Generation of spin waves by a train of fs-laser pulses: a novel approach for tuning magnon wavelength. <i>Scientific Reports</i> , 2017 , 7, 5668	4-9	30

458	Exciton recombination dynamics in an ensemble of (In,Al)As/AlAs quantum dots with indirect band-gap and type-I band alignment. <i>Physical Review B</i> , 2011 , 84,	3-3	30
457	Dynamics of the nuclear spin polarization by optically oriented electrons in a (In,Ga)As/GaAs quantum dot ensemble. <i>Physical Review B</i> , 2009 , 80,	3-3	30
456	Wave-vector-dependent exchange interaction and its relevance for the effective exciton mass in Cu ₂ O. <i>Physical Review B</i> , 2004 , 70,	3-3	30
455	Magnetic-field-induced second-harmonic generation in semiconductor GaAs. <i>Physical Review Letters</i> , 2005 , 94, 157404	7-4	30
454	Transformation of mode polarization in gyrotropic plasmonic waveguides. <i>Laser Physics</i> , 2014 , 24, 0940062		29
453	Systematic study of carrier correlations in the electron-hole recombination dynamics of quantum dots. <i>Physical Review B</i> , 2007 , 76,	3-3	29
452	Robust manipulation of electron spin coherence in an ensemble of singly charged quantum dots. <i>Physical Review B</i> , 2007 , 75,	3-3	29
451	Ground-state emission from a single InAs/GaAs self-assembled quantum dot structure in ultrahigh magnetic fields. <i>Physical Review B</i> , 2006 , 74,	3-3	29
450	Wave-vector-dependent exciton exchange interaction. <i>Physical Review Letters</i> , 2003 , 91, 107401	7-4	29
449	Parametric polariton scattering in microresonators with three-dimensional optical confinement. <i>Physical Review B</i> , 2001 , 64,	3-3	29
448	Spin noise of electrons and holes in (In,Ga)As quantum dots: Experiment and theory. <i>Physical Review B</i> , 2016 , 93,	3-3	28
447	Longitudinal and transverse spin dynamics of donor-bound electrons in fluorine-doped ZnSe: Spin inertia versus Hanle effect. <i>Physical Review B</i> , 2015 , 91,	3-3	28
446	Magnetization precession induced by quasitransverse picosecond strain pulses in (311) ferromagnetic (Ga,Mn)As. <i>Physical Review B</i> , 2013 , 87,	3-3	28
445	Optical bandpass switching by modulating a microcavity using ultrafast acoustics. <i>Physical Review B</i> , 2010 , 81,	3-3	28
444	Collective single-mode precession of electron spins in an ensemble of singly charged (In,Ga)As/GaAs quantum dots. <i>Physical Review B</i> , 2009 , 79,	3-3	28
443	Time-resolved and continuous-wave optical spin pumping of semiconductor quantum wells. <i>Semiconductor Science and Technology</i> , 2008 , 23, 114001	1-8	28
442	Ultrafast control of light emission from a quantum-well semiconductor microcavity using picosecond strain pulses. <i>Physical Review B</i> , 2008 , 78,	3-3	28
441	Interwell excitons in GaAs superlattices. <i>Physical Review B</i> , 1996 , 54, 10316-10319	3-3	28

440	Synthesis and Optical Characterization of Hybrid Organic-Inorganic Heterofluorene Polymers. <i>Macromolecules</i> , 2017 , 50, 2338-2343	5-5	27
439	Magnetophotonic intensity effects in hybrid metal-dielectric structures. <i>Physical Review B</i> , 2014 , 89,	3-3	27
438	Lasing from active optomechanical resonators. <i>Nature Communications</i> , 2014 , 5, 4038	17.4	27
437	Spin dephasing of fluorine-bound electrons in ZnSe. <i>Physical Review B</i> , 2012 , 85,	3-3	27
436	Effect of pump-probe detuning on the Faraday rotation and ellipticity signals of mode-locked spins in (In,Ga)As/GaAs quantum dots. <i>Physical Review B</i> , 2010 , 82,	3-3	27
435	Exciton fine structure in coupled quantum dots. <i>Physical Review B</i> , 2004 , 69,	3-3	27
434	Positively versus negatively charged excitons: A high magnetic field study of CdTe/Cd _{1-x} Mg _x Te quantum wells. <i>Physical Review B</i> , 2011 , 83,	3-3	25
433	Temperature dependence of optical linewidth in single InAs quantum dots. <i>Physical Review B</i> , 2006 , 74,	3-3	25
432	Photoreflectance spectroscopy of vertically coupled InGaAs/GaAs double quantum dots. <i>Solid State Communications</i> , 2001 , 117, 401-406	1.6	25
431	Coherent Control of the Exciton-Biexciton System in an InAs Self-Assembled Quantum Dot Ensemble. <i>Physical Review Letters</i> , 2016 , 117, 157402	7.4	25
430	Spin noise spectroscopy beyond thermal equilibrium and linear response. <i>Physical Review Letters</i> , 2014 , 113, 156601	7.4	24
429	Combined influence of Coulomb interaction and polarons on the carrier dynamics in InGaAs quantum dots. <i>Physical Review B</i> , 2013 , 88,	3-3	24
428	Theory of magnetization precession induced by a picosecond strain pulse in ferromagnetic semiconductor (Ga,Mn)As. <i>Physical Review B</i> , 2011 , 84,	3-3	24
427	Spin dynamics of electrons and holes in InGaAs/GaAs quantum wells at millikelvin temperatures. <i>Physical Review B</i> , 2010 , 81,	3-3	24
426	Optically detected magnetic resonance at the quadrupole-split nuclear states in (In,Ga)As/GaAs quantum dots. <i>Physical Review B</i> , 2010 , 82,	3-3	24
425	Temperature-induced spin-coherence dissipation in quantum dots. <i>Physical Review B</i> , 2008 , 78,	3-3	24
424	Indication of worn WC/C surface locations of a dry-running twin-screw rotor by the oxygen incorporation in tungsten-related Raman modes. <i>Applied Physics Letters</i> , 2016 , 109, 171601	3-4	23
423	Magneto-Stark effect of excitons as the origin of second harmonic generation in ZnO. <i>Physical Review Letters</i> , 2013 , 110, 116402	7.4	23

4 ²²	Exciton spin dynamics and photoluminescence polarization of CdSe/CdS dot-in-rod nanocrystals in high magnetic fields. <i>Physical Review B</i> , 2015 , 91,	3.3	23
4 ²¹	Magnetic-field control of photon echo from the electron-trion system in a CdTe quantum well: shuffling coherence between optically accessible and inaccessible states. <i>Physical Review Letters</i> , 2012 , 109, 157403	7.4	23
4 ²⁰	Temperature dependence of hole spin coherence in (In,Ga)As quantum dots measured by mode-locking and echo techniques. <i>Physical Review B</i> , 2013 , 87,	3.3	22
4 ¹⁹	Extended pump-probe Faraday rotation spectroscopy of the submicrosecond electron spin dynamics in n-type GaAs. <i>Physical Review B</i> , 2016 , 94,	3.3	22
4 ¹⁸	Surface spin magnetism controls the polarized exciton emission from CdSe nanoplatelets. <i>Nature Nanotechnology</i> , 2020 , 15, 277-282	28.7	21
4 ¹⁷	Correlation and dephasing effects on the non-radiative coherence between bright excitons in an InAs QD ensemble measured with 2D spectroscopy. <i>Solid State Communications</i> , 2013 , 163, 65-69	1.6	21
4 ¹⁶	Spin-flip Raman scattering of the neutral and charged excitons confined in a CdTe/(Cd,Mg)Te quantum well. <i>Physical Review B</i> , 2013 , 87,	3.3	21
4 ¹⁵	Optical control of electron spin coherence in CdTe/(Cd,Mg)Te quantum wells. <i>Physical Review B</i> , 2010 , 81,	3.3	21
4 ¹⁴	Electron-spin dephasing in GaAs _{0.34} Al _{0.34} Ga _{0.66} As quantum wells with a gate-controlled electron density. <i>Physical Review B</i> , 2007 , 75,	3.3	21
4 ¹³	Negatively Charged Exciton on a Quantum Ring. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 234, 273-282	3.3	21
4 ¹²	High resolution spectroscopy of yellow 1S excitons in Cu ₂ O. <i>Solid State Communications</i> , 2005 , 134, 139-142	1.6	21
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