

Andreas D Wieck

List of Publications by Year in descending order

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690
papers

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citations

29994

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704
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704
docs citations

704
times ranked

9083
citing authors

#	ARTICLE	IF	CITATIONS
1	Mode Locking of Electron Spin Coherences in Singly Charged Quantum Dots. <i>Science</i> , 2006, 313, 341-345.	6.0	409
2	Charge noise and spin noise in a semiconductor quantum device. <i>Nature Physics</i> , 2013, 9, 570-575.	6.5	320
3	A bright and fast source of coherent single photons. <i>Nature Nanotechnology</i> , 2021, 16, 399-403.	15.6	268
4	Electrons surfing on a sound wave as a platform for quantum optics with flying electrons. <i>Nature</i> , 2011, 477, 435-438.	13.7	263
5	Nuclei-Induced Frequency Focusing of Electron Spin Coherence. <i>Science</i> , 2007, 317, 1896-1899.	6.0	218
6	Ultrafast optical rotations of electron spins in quantum dots. <i>Nature Physics</i> , 2009, 5, 262-266.	6.5	211
7	Control of fine-structure splitting and biexciton binding in $\text{In}_x\text{Ga}_{1-x}\text{As}$ quantum dots by annealing. <i>Physical Review B</i> , 2004, 69, .	1.1	201
8	Optical Control of Spin Coherence in Singly Charged $(\text{In,Ga})\text{As}/\text{GaAs}$ Quantum Dots. <i>Physical Review Letters</i> , 2006, 96, 227401.	2.9	193
9	Quantum dot as thermal rectifier. <i>New Journal of Physics</i> , 2008, 10, 083016.	1.2	189
10	Optical Control of Excitons in a Pair of Quantum Dots Coupled by the Dipole-Dipole Interaction. <i>Physical Review Letters</i> , 2005, 94, 137404.	2.9	187
11	$\text{In}\epsilon\text{-plane}\epsilon\text{-gated}$ quantum wire transistor fabricated with directly written focused ion beams. <i>Applied Physics Letters</i> , 1990, 56, 928-930.	1.5	186
12	Radiatively limited dephasing in InAs quantum dots. <i>Physical Review B</i> , 2004, 70, .	1.1	186
13	Transform-limited single photons from a single quantum dot. <i>Nature Communications</i> , 2015, 6, 8204.	5.8	180
14	Coherent Nonlinear Optical Response of Single Quantum Dots Studied by Ultrafast Near-Field Spectroscopy. <i>Physical Review Letters</i> , 2002, 89, 057401.	2.9	154
15	A gated quantum dot strongly coupled to an optical microcavity. <i>Nature</i> , 2019, 575, 622-627.	13.7	145
16	Scalable integrated single-photon source. <i>Science Advances</i> , 2020, 6, .	4.7	144
17	Coherent properties of single rare-earth spin qubits. <i>Nature Communications</i> , 2014, 5, 3895.	5.8	141
18	Exciton dephasing via phonon interactions in InAs quantum dots: Dependence on quantum confinement. <i>Physical Review B</i> , 2005, 71, .	1.1	139

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19	Spin Noise of Electrons and Holes in Self-Assembled Quantum Dots. Physical Review Letters, 2010, 104, 036601.	2.9	136
20	Proposal of novel electron wave coupled devices. Applied Physics Letters, 1990, 56, 2527-2529.	1.5	133
21	Probing Single-Charge Fluctuations at a GaAs/AlAs Interface Using Laser Spectroscopy on a Nearby InGaAs Quantum Dot. Physical Review Letters, 2012, 108, 107401.	2.9	125
22	Optical Stark Effect in a Quantum Dot: Ultrafast Control of Single Exciton Polarizations. Physical Review Letters, 2004, 92, 157401.	2.9	120
23	Universal behavior of the electroconductance in $\text{GaAs}/\text{AlGaAs}$ quantum wells. Physical Review B, 2007, 75, .	1.1	118
24	Ferromagnetism and colossal magnetic moment in Gd-focused ion-beam-implanted GaN. Applied Physics Letters, 2006, 89, 062503.	1.5	113
25	Ripple propagation and velocity dispersion on ion-beam-eroded silicon surfaces. Physical Review B, 2002, 65, .	1.1	110
26	A dark-field microscope for background-free detection of resonance fluorescence from single semiconductor quantum dots operating in a set-and-forget mode. Review of Scientific Instruments, 2013, 84, 073905.	0.6	108
27	Electrical control of a solid-state flying qubit. Nature Nanotechnology, 2012, 7, 247-251.	15.6	105
28	Nanoscale Engineering and Optical Addressing of Single Spins in Diamond. Small, 2010, 6, 2117-2121.	5.2	100
29	Indistinguishable and efficient single photons from a quantum dot in a planar nanobeam waveguide. Physical Review B, 2017, 96, .	1.1	85
30	Spin-photon interface and spin-controlled photon switching in a nanobeam waveguide. Nature Nanotechnology, 2018, 13, 398-403.	15.6	85
31	Optical orientation of electron spins in GaAs quantum wells. Physical Review B, 2005, 71, .	1.1	83
32	Low-noise GaAs quantum dots for quantum photonics. Nature Communications, 2020, 11, 4745.	5.8	79
33	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
34	Observation of resonant photon drag in a two-dimensional electron gas. Physical Review Letters, 1990, 64, 463-466.	2.9	76
35	One-dimensional lateral field-effect transistor with trench gate-channel insulation. Applied Physics Letters, 1990, 57, 2695-2697.	1.5	76
36	Transport and Lifetime Enhancement of Photoexcited Spins in GaAs by Surface Acoustic Waves. Physical Review Letters, 2001, 87, 276601.	2.9	76

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37	Optical Spectroscopy of Spin Noise. Physical Review Letters, 2013, 110, 176601.	2.9	76
38	Decoupling a hole spin qubit from the nuclear spins. Nature Materials, 2016, 15, 981-986.	13.3	76
39	Spin Coherence of Holes in GaAs. Physical Review Letters, 2007, 99, 107401.	1.1	73
40	Sequential and cotunneling behavior in the temperature-dependent thermopower of few-electron quantum dots. Physical Review B, 2007, 75, .	1.1	73
41	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
42	Fast spin information transfer between distant quantum dots using individual electrons. Nature Nanotechnology, 2016, 11, 672-676.	15.6	71
43	Confinement and Interaction of Single Indirect Excitons in a Voltage-Controlled Trap Formed Inside Double InGaAs Quantum Wells. Physical Review Letters, 2013, 110, 127403.	2.9	68
44	Aharonov-Bohm Oscillations in the Presence of Strong Spin-Orbit Interactions. Physical Review Letters, 2007, 99, 176803.	2.9	67
45	Exciton fine structure in InGaAs quantum dots revisited by pump-probe Faraday rotation. Physical Review B, 2007, 75, .	1.1	65
46	Odd and even Kondo effects from emergent localization in quantum point contacts. Nature, 2013, 501, 79-83.	13.7	65
47	Strong spin-orbit interactions and weak antilocalization in carbon-doped GaAs quantum dots. Physical Review B, 2016, 93, 040401.	1.1	61
48	Auger Recombination in Self-Assembled Quantum Dots: Quenching and Broadening of the Charged Exciton Transition. Nano Letters, 2016, 16, 3367-3372.	4.5	60
49	Comparison of technologies for nano device prototyping with a special focus on ion beams: A review. Applied Physics Reviews, 2017, 4, .	5.5	58
50	Dynamic band-structure modulation of quantum wells by surface acoustic waves. Physical Review B, 2001, 63, .	1.1	57
51	Effect of annealing on the magnetic properties of Gd focused ion beam implanted GaN. Applied Physics Letters, 2007, 91, 072514.	1.5	57
52	Quantum Manipulation of Two-Electron Spin States in Isolated Double Quantum Dots. Physical Review Letters, 2015, 115, 096801.	2.9	57
53	Coulomb-Interaction-Induced Incomplete Shell Filling in the Hole System of InAs Quantum Dots. Physical Review Letters, 2005, 94, 026808.	2.9	56
54	Low temperature growth of gallium oxide thin films via plasma enhanced atomic layer deposition. Dalton Transactions, 2017, 46, 16551-16561.	1.6	56

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55	Coherent long-distance displacement of individual electron spins. Nature Communications, 2017, 8, 501.	5.8	55
56	Two-colour spin noise spectroscopy and fluctuation correlations reveal homogeneous linewidths within quantum-dot ensembles. Nature Communications, 2014, 5, 4949.	5.8	54
57	Room temperature electrical spin injection in remanence. Applied Physics Letters, 2008, 93, .	1.5	53
58	Ellipsoidal InAs quantum dots observed by cross-sectional scanning tunneling microscopy. Applied Physics Letters, 2009, 94, 023107.	1.5	53
59	Quantum non-demolition measurement of an electron spin qubit. Nature Nanotechnology, 2019, 14, 555-560.	15.6	52
60	Observation of the Kondo screening cloud. Nature, 2020, 579, 210-213.	13.7	52
61	A combinatorial passivation study of Ta–Ti alloys. Corrosion Science, 2009, 51, 1519-1527.	3.0	50
62	A few-electron quadruple quantum dot in a closed loop. Applied Physics Letters, 2012, 101, .	1.5	50
63	Influence of confinement on biexciton binding in semiconductor quantum dot ensembles measured with two-dimensional spectroscopy. Physical Review B, 2013, 87, .	1.1	50
64	Sound-driven single-electron transfer in a circuit of coupled quantum rails. Nature Communications, 2019, 10, 4557.	5.8	50
65	Setup of a scanning near field infrared microscope (SNIM): Imaging of sub-surface nano-structures in gallium-doped silicon. Physical Chemistry Chemical Physics, 2006, 8, 753-758.	1.3	49
66	Carrier relaxation dynamics in self-assembled semiconductor quantum dots. Physical Review B, 2009, 80, .	1.1	49
67	Quantum Optics with Near-Lifetime-Limited Quantum-Dot Transitions in a Nanophotonic Waveguide. Nano Letters, 2018, 18, 1801-1806.	4.5	49
68	Enhanced Sequential Carrier Capture into Individual Quantum Dots and Quantum Posts Controlled by Surface Acoustic Waves. Nano Letters, 2010, 10, 3399-3407.	4.5	48
69	On-chip deterministic operation of quantum dots in dual-mode waveguides for a plug-and-play single-photon source. Nature Communications, 2020, 11, 3782.	5.8	48
70	Quantum interference of identical photons from remote GaAs quantum dots. Nature Nanotechnology, 2022, 17, 829-833.	15.6	48
71	Electron spin injection into GaAs from ferromagnetic contacts in remanence. Applied Physics Letters, 2005, 87, 032502.	1.5	47
72	Enhancement of spin information with vertical cavity surface emitting lasers. Electronics Letters, 2006, 42, 88.	0.5	47

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73	Closed-loop control of a GaAs-based singlet-triplet spin qubit with 99.5% gate fidelity and low leakage. Nature Communications, 2020, 11, 4144.	5.8	47
74	Coherent control of individual electron spins in a two-dimensional quantum dot array. Nature Nanotechnology, 2021, 16, 296-301.	15.6	47
75	Intersubband energies in GaAs-Ga $_{1-x}$ Al $_x$ As heterojunctions. Physical Review B, 1987, 35, 4145-4148.	1.1	46
76	Electrostatically trapping indirect excitons in coupled In $_x$ Ga $_{1-x}$ As heterojunctions. Physical Review B, 2007, 75, 045301.	1.1	46
77	Quantum Dephasing in a Gated GaAs Triple Quantum Dot due to Nonergodic Noise. Physical Review Letters, 2016, 116, 046802.	2.9	46
78	Microelectrochemical lithography: A method for direct writing of surface oxides. Electrochimica Acta, 2007, 52, 7865-7869.	2.6	45
79	Experimental investigation of the ratchet effect in a two-dimensional electron system with broken spatial inversion symmetry. Physical Review B, 2008, 78, .	1.1	45
80	All-Optical Preparation of Coherent Dark States of a Single Rare Earth Ion Spin in a Crystal. Physical Review Letters, 2015, 115, 093602.	2.9	45
81	Robust Single-Shot Spin Measurement with 99.5% Fidelity in a Quantum Dot Array. Physical Review Letters, 2017, 119, 017701.	2.9	45
82	Vanishing contact resistance on polycrystalline YBa $_2$ Cu $_3$ O $_{7-x}$. Applied Physics Letters, 1988, 52, 1017-1019.	1.5	44
83	Subband Landau-level coupling in GaAs/Ga $_{1-x}$ Al $_x$ As heterojunctions. Physical Review B, 1989, 39, 3785-3794.	1.1	44
84	Scaling of the Low-Temperature Dephasing Rate in Kondo Systems. Physical Review Letters, 2006, 97, 226804.	2.9	44
85	Structural, magnetic, and optical properties of Co- and Gd-implanted ZnO(0001) substrates. Journal of Applied Physics, 2008, 104, .	1.1	44
86	Magnetocapacitance probing of the many-particle states in InAs dots. Applied Physics Letters, 2005, 86, 092104.	1.5	43
87	Electrical detection of photoinduced spins both at room temperature and in remanence. Applied Physics Letters, 2008, 92, .	1.5	43
88	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
89	Experimental imaging and tomographic modeling of electron and hole quasiparticle wave functions in In $_x$ Ga $_{1-x}$ As quantum dots. Physical Review B, 2007, 75, 045301.	1.1	42
90	Focused ion beam implantation induced site-selective growth of InAs quantum dots. Applied Physics Letters, 2007, 91, 123108.	1.5	42

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91	Optical Detection of Single-Electron Tunneling into a Semiconductor Quantum Dot. Physical Review Letters, 2019, 122, 247403.	2.9	42
92	Coherent spin oscillations in bulk GaAs at room temperature. Applied Physics Letters, 2006, 89, 231101.	1.5	41
93	Electrical and optical properties of TiO ₂ thin films prepared by plasma-enhanced atomic layer deposition. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 416-424.	0.8	41
94	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
95	Nanomechanical single-photon routing. Optica, 2019, 6, 524.	4.8	41
96	Lifting of the Spin Degeneracy of Hole Subbands in a Surface Electric Field on Silicon. Physical Review Letters, 1984, 53, 493-496.	2.9	39
97	High transconductance in-plane-gated transistors. Applied Physics Letters, 1992, 61, 1048-1050.	1.5	39
98	Spin controlled optically pumped vertical cavity surface emitting laser. Electronics Letters, 2005, 41, 251.	0.5	39
99	Combinatorial electrochemistry on Al-Fe alloys. Science and Technology of Advanced Materials, 2008, 9, 035009.	2.8	39
100	High-throughput synthesis and characterization of anodic oxides on Nb-Ti alloys. Electrochimica Acta, 2009, 54, 5973-5980.	2.6	39
101	Parallel excitation of hole and electron intersubband resonances in space-charge layers on silicon. Physical Review B, 1984, 30, 4653-4663.	1.1	38
102	Transmission Phase in the Kondo Regime Revealed in a Two-Path Interferometer. Physical Review Letters, 2014, 113, 126601.	2.9	38
103	Coherent electron-spin-resonance manipulation of three individual spins in a triple quantum dot. Applied Physics Letters, 2016, 108, .	1.5	38
104	Preparation of electron waveguide devices on GaAs/AlGaAs using negative-tone resist calixarene. Semiconductor Science and Technology, 2005, 20, 814-818.	1.0	37
105	Fabrication of genuine single-quantum-dot light-emitting diodes. Applied Physics Letters, 2006, 88, 121115.	1.5	37
106	Long-Term Hole Spin Memory in the Resonantly Amplified Spin Coherence of $\text{InGaAs}/\text{GaAs}$ Quantum Well Electrons. Physical Review Letters, 2009, 102, 167402.	2.9	37
107	Using a two-dimensional electron gas to study nonequilibrium tunneling dynamics and charge storage in self-assembled quantum dots. Applied Physics Letters, 2009, 95, 022113.	1.5	37
108	Combinatorial investigation of Hf-Ta thin films and their anodic oxides. Electrochimica Acta, 2010, 55, 7884-7891.	2.6	37

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109	Fabrication and characterization of ambipolar devices on an undoped AlGaAs/GaAs heterostructure. Applied Physics Letters, 2012, 100, .	1.5	37
110	Angular momentum transfer from photon polarization to an electron spin in a gate-defined quantum dot. Nature Communications, 2019, 10, 2991.	5.8	37
111	Hot-Electron Effects in Two-Dimensional Hopping with a Large Localization Length. Physical Review Letters, 2000, 85, 1718-1721.	2.9	36
112	Single-hole transistor in p-type GaAs \cdot AlGaAs heterostructures. Applied Physics Letters, 2005, 87, 232108.	1.5	36
113	Strong coupling of an Er^{3+} ion to a superconducting resonator. Physical Review B, 2014, 90, .	1.1	36
114	Distant spin entanglement via fast and coherent electron shuttling. Nature Nanotechnology, 2021, 16, 570-575.	15.6	36
115	Experimental evidence of the ideal de Haas-van Alphen effect in a two-dimensional system. Physical Review B, 2006, 73, .	1.1	35
116	Electrically tunable hole g -factor of an optically active quantum dot for fast spin rotations. Physical Review B, 2015, 91, .	1.1	35
117	Nanoscale devices fabricated by direct machining of GaAs with an atomic force microscope. Ultramicroscopy, 2000, 82, 159-163.	0.8	34
118	Mapping of strain and electric fields in GaAs/AlxGa1-x quantum-well samples by laser-assisted NMR. Physical Review B, 2003, 67, .	1.1	34
119	Depletion characteristics of two-dimensional lateral p-n-junctions. Applied Physics Letters, 2005, 86, 162110.	1.5	34
120	Quantum coherence at low temperatures in mesoscopic systems: Effect of disorder. Physical Review B, 2010, 81, .	1.1	34
121	Coherent transfer of electron spin correlations assisted by dephasing noise. Nature Communications, 2018, 9, 2133.	5.8	34
122	Submicron periodic poling and chemical patterning of GaN. Applied Physics Letters, 2005, 87, 062106.	1.5	33
123	Magnetic and structural properties of Gd-implanted zinc-blende GaN. Applied Physics Letters, 2007, 90, .	1.5	33
124	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
125	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
126	Interplay of Electron and Nuclear Spin Noise in n-Type GaAs. Physical Review Letters, 2015, 115, 176601.	2.9	33

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127	Robust manipulation of electron spin coherence in an ensemble of singly charged quantum dots. Physical Review B, 2007, 75, .	1.1	32
128	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
129	Role of the electron spin in determining the coherence of the nuclear spins in a quantum dot. Nature Nanotechnology, 2016, 11, 885-889.	15.6	32
130	Parallel in-plane-gated wires coupled by a ballistic window. Physical Review B, 1992, 46, 4035-4040.	1.1	31
131	Band mixing and ambipolar transport by surface acoustic waves in GaAs quantum wells. Physical Review B, 2004, 69, .	1.1	31
132	Resistance of a Single Domain Wall in (Co/Pt)7 Multilayer Nanowires. Physical Review Letters, 2006, 97, 226805.	2.9	31
133	Systematic study of carrier correlations in the electron-hole recombination dynamics of quantum dots. Physical Review B, 2007, 76, .	1.1	31
134	Quantized Magnetic Confinement in Quantum Wires. Physical Review Letters, 2010, 104, 186801.	2.9	31
135	Coherent Control of the Exciton-Biexciton System in an InAs Self-Assembled Quantum Dot Ensemble. Physical Review Letters, 2016, 117, 157402.	2.9	31
136	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
137	A machine learning approach for automated fine-tuning of semiconductor spin qubits. Applied Physics Letters, 2019, 114, .	1.5	31
138	Electron transport through a single InAs quantum dot. Physical Review B, 2000, 62, 15879-15887.	1.1	30
139	Observation of orientation- and k -dependent Zeeman spin-splitting in hole quantum wires on (100)-oriented AlGaAs/GaAs heterostructures. New Journal of Physics, 2010, 12, 033043.	1.2	30
140	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
141	Two relaxation mechanisms observed in transport between spin-split edge states at high imbalance. Physical Review B, 2004, 69, .	1.1	29
142	GaN for x-ray detection. Applied Physics Letters, 2008, 92, .	1.5	29
143	Frequency-Stabilized Source of Single Photons from a Solid-State Qubit. Physical Review X, 2013, 3, .	2.8	29
144	Narrow optical linewidths and spin pumping on charge-tunable close-to-surface self-assembled quantum dots in an ultrathin diode. Physical Review B, 2017, 96, .	1.1	29

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145	Magnetotransport in C-doped AlGaAs heterostructures. Applied Physics Letters, 2004, 85, 2277-2279.	1.5	28
146	Spin injection light-emitting diode with vertically magnetized ferromagnetic metal contacts. Journal of Applied Physics, 2006, 99, 073907.	1.1	28
147	Transport spectroscopy of non-equilibrium many-particle spin states in self-assembled quantum dots. Nature Communications, 2011, 2, 209.	5.8	28
148	Observation of the Kondo Effect in a Spin-32Hole Quantum Dot. Physical Review Letters, 2011, 107, 076805.	2.9	28
149	Unveiling the bosonic nature of an ultrashort few-electron pulse. Nature Communications, 2018, 9, 2811.	5.8	28
150	Near Transform-Limited Quantum Dot Linewidths in a Broadband Photonic Crystal Waveguide. ACS Photonics, 2020, 7, 2343-2349.	3.2	28
151	Deterministic positioning of nanophotonic waveguides around single self-assembled quantum dots. APL Photonics, 2020, 5, 086101.	3.0	28
152	Role of quantum capacitance in coupled low-dimensional electron systems. Physical Review B, 2006, 73, .	1.1	27
153	Luminescence upconversion in GaAs quantum wells. Physical Review B, 2008, 77, .	1.1	27
154	Resistively Detected Nuclear Magnetic Resonance in n- and p-Type GaAs Quantum Point Contacts. Nano Letters, 2011, 11, 3147-3150.	4.5	27
155	MOCVD of ZnO Films from <i>Bis</i> (Ketoiminato)Zn(II) Precursors: Structure, Morphology and Optical Properties. Chemical Vapor Deposition, 2011, 17, 155-161.	1.4	27
156	Combined influence of Coulomb interaction and polarons on the carrier dynamics in InGaAs quantum dots. Physical Review B, 2013, 88, .	1.1	27
157	Manipulation of the nuclear spin ensemble in a quantum dot with chirped magnetic resonance pulses. Nature Nanotechnology, 2014, 9, 671-675.	15.6	27
158	Experimental Reconstruction of the Few-Photon Nonlinear Scattering Matrix from a Single Quantum Dot in a Nanophotonic Waveguide. Physical Review Letters, 2021, 126, 023603.	2.9	27
159	Coherent Spin-Photon Interface with Waveguide Induced Cycling Transitions. Physical Review Letters, 2021, 126, 013602.	2.9	27
160	Transport characteristics of a window-coupled in-plane-gated wire system. Physical Review B, 1993, 48, 7991-7998.	1.1	26
161	Quantum ballistic transport in in-plane-gate transistors showing onset of a novel ferromagnetic phase transition. Superlattices and Microstructures, 1996, 20, 615-622.	1.4	26
162	Temperature-induced spin-coherence dissipation in quantum dots. Physical Review B, 2008, 78, .	1.1	26

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163	Nonlocal Aharonov-Bohm conductance oscillations in an asymmetric quantum ring. Applied Physics Letters, 2009, 94, 022107.	1.5	26
164	Spin dynamics of electrons and holes in InGaAs wells at millikelvin temperatures. Physical Review B, 2010, 81, .	1.1	26
165	Nondestructive Real-Time Measurement of Charge and Spin Dynamics of Photoelectrons in a Double Quantum Dot. Physical Review Letters, 2013, 110, 266803.	2.9	26
166	Many-body correlations of electrostatically trapped dipolar excitons. Physical Review B, 2013, 87, .	1.1	26
167	Lateral spreading of focused ion-beam-induced damage. Journal of Applied Physics, 1992, 72, 1858-1863.	1.1	25
168	Intrinsic and extrinsic capacitances of in-plane-gated transistors. Journal of Applied Physics, 1996, 79, 8087-8090.	1.1	25
169	Inversion-asymmetry-induced spin splitting observed in the quantum oscillatory magnetization of a two-dimensional electron system. Physical Review B, 2009, 79, .	1.1	25
170	Artificial Atoms in Magnetic Fields: Wave-Function Shaping and Phase-Sensitive Tunneling. Physical Review Letters, 2010, 105, 176804.	2.9	25
171	Room temperature spin relaxation length in spin light-emitting diodes. Applied Physics Letters, 2011, 99, 051102.	1.5	25
172	Hole spin precession in a (In,Ga)As quantum dot ensemble: From resonant spin amplification to spin mode locking. Physical Review B, 2012, 86, .	1.1	25
173	Growth of graphene-like films for NO ₂ detection. Sensors and Actuators B: Chemical, 2013, 182, 66-70.	4.0	25
174	Correlation and dephasing effects on the non-radiative coherence between bright excitons in an InAs QD ensemble measured with 2D spectroscopy. Solid State Communications, 2013, 163, 65-69.	0.9	25
175	Asymmetry of charge relaxation times in quantum dots: The influence of degeneracy. Europhysics Letters, 2014, 106, 47002.	0.7	25
176	Signatures of Hyperfine, Spin-Orbit, and Decoherence Effects in a Pauli Spin Blockade. Physical Review Letters, 2016, 117, 206802.	2.9	25
177	In situ and operando observation of surface oxides during oxygen evolution reaction on copper. Electrochimica Acta, 2017, 236, 104-115.	2.6	25
178	Excitons in InGaAs quantum dots without electron wetting layer states. Communications Physics, 2019, 2, .	2.0	25
179	Low-temperature transport characteristics of AlGaAs/GaAs in-plane-gated wires. Journal of Applied Physics, 1992, 72, 3022-3028.	1.1	24
180	Fabrication of quantum point contacts by engraving GaAs/AlGaAs heterostructures with a diamond tip. Applied Physics Letters, 2002, 81, 2023-2025.	1.5	24

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181	Ballistic rectification in an asymmetric mesoscopic cross junction. Applied Physics Letters, 2006, 88, 082110.	1.5	24
182	The Influence of Device Geometry on Many-Body Effects in Quantum Point Contacts: Signatures of the 0.7 Anomaly, Exchange and Kondo. Journal of Superconductivity and Novel Magnetism, 2007, 20, 433-441.	0.8	24
183	Temperature dependence of hole spin coherence in (In,Ga)As quantum dots measured by mode-locking and echo techniques. Physical Review B, 2013, 87, .	1.1	24
184	Sequential Growth of Zinc Oxide Nanorod Arrays at Room Temperature via a Corrosion Process: Application in Visible Light Photocatalysis. ACS Applied Materials & Interfaces, 2014, 6, 18728-18734.	4.0	24
185	Localization and nonlinear transport in single walled carbon nanotube fibers. Journal of Applied Physics, 2008, 104, .	1.1	24
186	Lateral tunneling in point contacts. Physical Review B, 1991, 44, 3424-3427.	1.1	23
187	Influence of processing parameters on the transport properties of quantum point contacts fabricated with an atomic force microscope. Semiconductor Science and Technology, 2002, 17, 735-739.	1.0	23
188	Long wavelength emitting InAs ^x Ga _{0.85} In _{0.15} N _x As _{1-x} quantum dots on GaAs substrate. Applied Physics Letters, 2006, 88, 231902.	1.5	23
189	Spin Accumulation and Spin Relaxation in a Large Open Quantum Dot. Physical Review Letters, 2008, 101, 056602.	2.9	23
190	Dyakonov-Perel electron spin relaxation in a wurtzite semiconductor: From the nondegenerate to the highly degenerate regime. Physical Review B, 2011, 84, .	1.1	23
191	New amidinate complexes of indium(^{III}): promising CVD precursors for transparent and conductive In ₂ O ₃ thin films. Dalton Transactions, 2017, 46, 10220-10231.	1.6	23
192	Spin inertia of resident and photoexcited carriers in singly charged quantum dots. Physical Review B, 2018, 98, .	1.1	23
193	Four single-spin Rabi oscillations in a quadruple quantum dot. Applied Physics Letters, 2018, 113, .	1.5	23
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