David Awschalom

List of Publications by Year
in descending order

195 papers	25,549 citations	7568 77 h-index	6300 158 g-index
198 all docs	198 docs citations	198 times ranked	16068 citing authors

#	Article	IF	Citations
1	Five-second coherence of a single spin with single-shot readout in silicon carbide. Science Advances, 2022, 8, eabm5912.	10.3	57
2	Generalized scaling of spin qubit coherence in over 12,000 host materials. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121808119.	7.1	38
3	Key Device and Materials Specifications for a Repeater Enabled Quantum Internet. IEEE Transactions on Quantum Engineering, 2021, 2, 1-9.	4.9	6
4	Probing the Coherence of Solid-State Qubits at Avoided Crossings. PRX Quantum, 2021, 2, .	9.2	29
5	Quantum Engineering With Hybrid Magnonic Systems and Materials (Invited Paper). IEEE Transactions on Quantum Engineering, 2021, 2, 1-36.	4.9	69
6	Development of Quantum Interconnects (QuICs) for Next-Generation Information Technologies. PRX Quantum, 2021, 2, .	9.2	172
7	Quantum guidelines for solid-state spin defects. Nature Reviews Materials, 2021, 6, 906-925.	48.7	185
8	Theoretical and experimental study of the nitrogen-vacancy center in 4H-SiC. Physical Review Materials, 2021, 5, .	2.4	6
9	Relaxation of a single defect spin by the low-frequency gyrotropic mode of a magnetic vortex. Journal of Applied Physics, 2021, 130, .	2.5	5
10	Photoluminescence spectra of point defects in semiconductors: Validation of first-principles calculations. Physical Review Materials, 2021, 5, .	2.4	29
11	Parasitic erbium photoluminescence in commercial telecom fiber optical components. Optics Letters, 2021, 46, 4852.	3.3	2
12	Opportunities for Long-Range Magnon-Mediated Entanglement of Spin Qubits via On- and Off-Resonant Coupling. PRX Quantum, 2021, 2, .	9.2	46
13	Tunable Cr⁴⁺ Molecular Color Centers. Journal of the American Chemical Society, 2021, 143, 21350-21363.	13.7	29
14	Tunable and Transferable Diamond Membranes for Integrated Quantum Technologies. Nano Letters, 2021, 21, 10392-10399.	9.1	13
15	Spatiotemporal Mapping of a Photocurrent Vortex in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Using Diamond Quantum Sensors. Physical Review X, 2020, 10, .	8.9	15
16	Trigonal Bipyramidal V³⁺ Complex as an Optically Addressable Molecular Qubit Candidate. Journal of the American Chemical Society, 2020, 142, 20400-20408.	13.7	46
17	Optically addressable molecular spins for quantum information processing. Science, 2020, 370, 1309-1312.	12.6	148
18	Universal coherence protection in a solid-state spin qubit. Science, 2020, 369, 1493-1497.	12.6	77

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19	Entanglement and control of single nuclear spins in isotopically engineered silicon carbide. Nature Materials, 2020, 19, 1319-1325.	27.5	98
20	Vanadium spin qubits as telecom quantum emitters in silicon carbide. Science Advances, 2020, 6, eaaz1192.	10.3	96
21	Developing silicon carbide for quantum spintronics. Applied Physics Letters, 2020, 116, .	3.3	101
22	Symmetry breaking of the persistent spin helix in quantum transport. Physical Review B, 2020, 101, .	3.2	18
23	Purcell Enhancement of a Single Silicon Carbide Color Center with Coherent Spin Control. Nano Letters, 2020, 20, 3427-3434.	9.1	79
24	Coherent control and high-fidelity readout of chromium ions in commercial silicon carbide. Npj Quantum Information, 2020, 6, .	6.7	42
25	Epitaxial Er-doped Y2O3 on silicon for quantum coherent devices. APL Materials, 2020, 8, .	5.1	23
26	High-Q Nanophotonic Resonators on Diamond Membranes using Templated Atomic Layer Deposition of TiO2. Nano Letters, 2020, 20, 4603-4609.	9.1	11
27	All-Optical Cryogenic Thermometry Based on Nitrogen-Vacancy Centers in Nanodiamonds. Physical Review Applied, 2019, 12, .	3.8	33
28	Heterodyne detection of radio-frequency electric fields using point defects in silicon carbide. Applied Physics Letters, 2019, 115, .	3.3	11
29	Correlating dynamic strain and photoluminescence of solid-state defects with stroboscopic x-ray diffraction microscopy. Nature Communications, 2019, 10, 3386.	12.8	15
30	Simple non-galvanic flip-chip integration method for hybrid quantum systems. Applied Physics Letters, 2019, 114, .	3.3	15
31	Spinâ€“phonon interactions in silicon carbide addressed by Gaussian acoustics. Nature Physics, 2019, 15, 490-495.	16.7	159
32	SiC Cantilevers for Generating Uniaxial Stress. , 2019, , .		2
33	Electrical and optical control of single spins integrated in scalable semiconductor devices. Science, 2019, 366, 1225-1230.	12.6	157
34	Stabilization of point-defect spin qubits by quantum wells. Nature Communications, 2019, 10, 5607.	12.8	42
35	Electrically driven optical interferometry with spins in silicon carbide. Science Advances, 2019, 5, eaay0527.	10.3	55
36	Quantum control of surface acoustic-wave phonons. Nature, 2018, 563, 661-665.	27.8	263

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37	Atomic layer deposition of titanium nitride for quantum circuits. Applied Physics Letters, 2018, 113, .	3.3	58
38	Quantum technologies with optically interfaced solid-state spins. Nature Photonics, 2018, 12, 516-527.	31.4	581
39	Electrometry by optical charge conversion of deep defects in 4H-SiC. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7879-7883.	7.1	43
40	Microscale-Resolution Thermal Mapping Using a Flexible Platform of Patterned Quantum Sensors. Nano Letters, 2018, 18, 4684-4690.	9.1	33
41	Strain annealing of SiC nanoparticles revealed through Bragg coherent diffraction imaging for quantum technologies. Physical Review Materials, 2018, 2, .	2.4	12
42	In situ study of annealing-induced strain relaxation in diamond nanoparticles using Bragg coherent diffraction imaging. APL Materials, 2017, 5, .	5.1	18
43	Resonant optical spectroscopy and coherent control of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msup><mml:mrow><mml:mi mathvariant="normal">r</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup> ensembles in SiC and GaN. Physical Review B, 2017, 95, .	3.2	59
44	Holonomic Quantum Control by Coherent Optical Excitation in Diamond. Physical Review Letters, 2017, 119, 140503.	7.8	123
45	Local optical control of ferromagnetism and chemical potential in a topological insulator. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10379-10383.	7.1	24
46	Helicity dependent photocurrent in electrically gated (Bi1âˆ'x Sb x)2Te3 thin films. Nature Communications, 2017, 8, 1037.	12.8	66
47	Long-range spin wave mediated control of defect qubits in nanodiamonds. Npj Quantum Information, 2017, 3, .	6.7	101
48	Designing a cavity-mediated quantum cphase gate between NV spin qubits in diamond. Physical Review B, 2017, 95, .	3.2	10
49	Isolated Spin Qubits in SiC with a High-Fidelity Infrared Spin-to-Photon Interface. Physical Review X, 2017, 7, .	8.9	125
50	Accelerated quantum control using superadiabatic dynamics in a solid-state lambda system. Nature Physics, 2017, 13, 330-334.	16.7	194
51	Stark tuning and electrical charge state control of single divacancies in silicon carbide. Applied Physics Letters, 2017, 111, .	3.3	62
52	Optical charge state control of spin defects in 4H-SiC. Nature Communications, 2017, 8, 1876.	12.8	83
53	Control of Spin Defects in Wide-Bandgap Semiconductors for Quantum Technologies. Proceedings of the IEEE, 2016, 104, 2009-2023.	21.3	48
54	Quantum decoherence dynamics of divacancy spins in silicon carbide. Nature Communications, 2016, 7, 12935.	12.8	128

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55	Cavity-Enhanced Measurements of Defect Spins in Silicon Carbide. Physical Review Applied, 2016, 6, .	3.8	43
56	High-Fidelity Bidirectional Nuclear Qubit Initialization in SiC. Physical Review Letters, 2016, 117, 220503.	7.8	16
57	Suppressing Spectral Diffusion of Emitted Photons with Optical Pulses. Physical Review Letters, 2016, 116, 033603.	7.8	24
58	Patterned Formation of Highly Coherent Nitrogen-Vacancy Centers Using a Focused Electron Irradiation Technique. Nano Letters, 2016, 16, 2450-2454.	9.1	89
59	Optical manipulation of the Berry phase in a solid-state spin qubit. Nature Photonics, 2016, 10, 184-189.	31.4	88
60	Designing defect spins for wafer-scale quantum technologies. MRS Bulletin, 2015, 40, 1146-1153.	3.5	21
61	Decoherence of Near-Surface Nitrogen-Vacancy Centers Due to Electric Field Noise. Physical Review Letters, 2015, 115, 087602.	7.8	93
62	Theoretical model of dynamic spin polarization of nuclei coupled to paramagnetic point defects in diamond and silicon carbide. Physical Review B, 2015, 92, .	3.2	59
63	Proton magnetic resonance imaging using a nitrogenâ€“vacancy spin sensor. Nature Nanotechnology, 2015, 10, 120-124.	31.5	124
64	Optical Polarization of Nuclear Spins in Silicon Carbide. Physical Review Letters, 2015, 114, 247603.	7.8	109
65	Reduced Plasma-Induced Damage to Near-Surface Nitrogen-Vacancy Centers in Diamond. Nano Letters, 2015, 15, 2887-2891.	9.1	30
66	Hybrid Plasmonic Photonic Crystal Cavity for Enhancing Emission from near-Surface Nitrogen Vacancy Centers in Diamond. ACS Photonics, 2015, 2, 465-469.	6.6	21
67	Persistent optical gating of a topological insulator. Science Advances, 2015, 1, e1500640.	10.3	31
68	Quantum entanglement at ambient conditions in a macroscopic solid-state spin ensemble. Science Advances, 2015, 1, e1501015.	10.3	79
69	Isolated electron spins in silicon carbide with millisecond coherence times. Nature Materials, 2015, 14, 160-163.	27.5	362
70	Three-dimensional localization of spins in diamond using 12C implantation. Applied Physics Letters, 2014, 105, .	3.3	56
71	Silicon carbide photonic crystal cavities with integrated color centers. Applied Physics Letters, 2014, 105, .	3.3	90
72	Multipulse Double-Quantum Magnetometry with Near-Surface Nitrogen-Vacancy Centers. Physical Review Letters, 2014, 113, 030803.	7.8	71

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73	Probing Surface Noise with Depth-Calibrated Spins in Diamond. Physical Review Letters, 2014, 113, 027602.	7.8	158
74	First-principles theory of the luminescence lineshape for the triplet transition in diamond NV centres. New Journal of Physics, 2014, 16, 073026.	2.9	183
75	Deterministic coupling of delta-doped nitrogen vacancy centers to a nanobeam photonic crystal cavity. Applied Physics Letters, 2014, 105, .	3.3	68
76	Current-Induced Spin Polarization in Anisotropic Spin-Orbit Fields. Physical Review Letters, 2014, 112, 056601.	7.8	30
77	Engineered Micro- and Nanoscale Diamonds as Mobile Probes for High-Resolution Sensing in Fluid. Nano Letters, 2014, 14, 4959-4964.	9.1	44
78	Dynamic nuclear polarization from current-induced electron spin polarization. Physical Review B, 2014, 90, .	3.2	15
79	Ultrafast optical control of orbital and spin dynamics in a solid-state defect. Science, 2014, 345, 1333-1337.	12.6	70
80	Electrically and Mechanically Tunable Electron Spins in Silicon Carbide Color Centers. Physical Review Letters, 2014, 112, 187601.	7.8	152
81	Engineering and quantum control of single spins in semiconductors. MRS Bulletin, 2013, 38, 139-143.	3.5	6
82	Nanomechanical coupling between microwave and optical photons. Nature Physics, 2013, 9, 712-716.	16.7	485
83	Nanoscale Nuclear Magnetic Resonance with a Nitrogen-Vacancy Spin Sensor. Science, 2013, 339, 557-560.	12.6	661
84	Quantum Spintronics: Engineering and Manipulating Atom-Like Spins in Semiconductors. Science, 2013, 339, 1174-1179.	12.6	579
85	Quantum Control over Single Spins in Diamond. Annual Review of Condensed Matter Physics, 2013, 4, 23-50.	14.5	139
86	Polytype control of spin qubits in silicon carbide. Nature Communications, 2013, 4, 1819.	12.8	292
87	Spins charge ahead. Nature Photonics, 2013, 7, 510-511.	31.4	2
88	Fluorescence thermometry enhanced by the quantum coherence of single spins in diamond. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8417-8421.	7.1	319
89	All-optical control of a solid-state spin using coherent dark states. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7595-7600.	7.1	108
90	Quantum computing with defects. MRS Bulletin, 2013, 38, 802-807.	3.5	44

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91	Epitaxial growth of europium monoxide on diamond. Applied Physics Letters, 2013, 103, 222402.	3.3	7
92	Spin Coherence during Optical Excitation of a Single Nitrogen-Vacancy Center in Diamond. Physical Review Letters, 2012, 108, 157602.	7.8	28
93	Feedback cooling of cantilever motion using a quantum point contact transducer. Applied Physics Letters, 2012, 101, 133104.	3.3	10
94	Interplay between ferromagnetism, surface states, and quantum corrections in a magnetically doped topological insulator. Physical Review B, 2012, 86, .	3.2	133
95	Engineering shallow spins in diamond with nitrogen delta-doping. Applied Physics Letters, 2012, 101, 082413.	3.3	239
96	Decoherence-protected quantum gates for a hybrid solid-state spin register. Nature, 2012, 484, 82-86.	27.8	320
97	Measurement and Control of Single Nitrogen-Vacancy Center Spins above 600ÂK. Physical Review X, 2012, 2, .	8.9	157
98	Homoepitaxial Growth of Single Crystal Diamond Membranes for Quantum Information Processing. Advanced Materials, 2012, 24, OP54-9.	21.0	63
99	A quantum memory intrinsic to single nitrogenâ€“vacancy centres in diamond. Nature Physics, 2011, 7, 789-793.	16.7	334
100	Electrical Tuning of Single Nitrogen-Vacancy Center Optical Transitions Enhanced by Photoinduced Fields. Physical Review Letters, 2011, 107, 266403.	7.8	100
101	Defects in SiC for quantum computing. Journal of Applied Physics, 2011, 109, .	2.5	66
102	Room temperature coherent control of defect spin qubits in silicon carbide. Nature, 2011, 479, 84-87.	27.8	607
103	Spin-Seebeck Effect: A Phonon Driven Spin Distribution. Physical Review Letters, 2011, 106, 186601.	7.8	168
104	One-dimensional alignment of nanoparticles via magnetic sorting. Applied Physics Letters, 2010, 96, 163103.	3.3	6
105	Spin-Light Coherence for Single-Spin Measurement and Control in Diamond. Science, 2010, 330, 1212-1215.	12.6	186
106	Excited-state spin coherence of a single nitrogenâ€“vacancy centre in diamond. Nature Physics, 2010, 6, 668-672.	16.7	80
107	Polarization based control of optical hysteresis in coupled GaAs microdisks. Applied Physics Letters, 2010, 97, 011106.	3.3	0
108	Mapping spin-orbit splitting in strained (In,Ga)As epilayers. Physical Review B, 2010, 82, .	3.2	22

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109	Epitaxial EuO thin films on GaAs. Applied Physics Letters, 2010, 97, 112509.	3.3	49
110	Vector magnetic field microscopy using nitrogen vacancy centers in diamond. Applied Physics Letters, 2010, 96, .	3.3	140
111	Coherent heteroepitaxy of Bi2Se3 on GaAs (111)B. Applied Physics Letters, 2010, 97, .	3.3	132
112	Chip-Scale Nanofabrication of Single Spins and Spin Arrays in Diamond. Nano Letters, 2010, 10, 3168-3172.	9.1	248
113	Quantum computing with defects. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8513-8518.	7.1	588
114	Interlayer and interfacial exchange coupling in ferromagnetic metal/semiconductor heterostructures. Physical Review B, 2010, 81, .	3.2	19
115	High-Cooperativity Coupling of Electron-Spin Ensembles to Superconducting Cavities. Physical Review Letters, 2010, 105, 140501.	7.8	398
116	Generation and transport of photoexcited electrons in single-crystal diamond. Applied Physics Letters, 2009, 94, .	3.3	34
117	Gigahertz Dynamics of a Strongly Driven Single Quantum Spin. Science, 2009, 326, 1520-1522.	12.6	327
118	Polarized Emission From Twin Microdisk Photonic Molecules. IEEE Journal of Quantum Electronics, 2009, 45, 932-936.	1.9	3
119	Coherent manipulation of single spins in semiconductors. Nature, 2008, 453, 1043-1049.	27.8	422
120	Time-resolved dynamics of the spin HallÂeffect. Nature Physics, 2008, 4, 843-846.	16.7	52
121	Coherent Dynamics of a Single Spin Interacting with an Adjustable Spin Bath. Science, 2008, 320, 352-355.	12.6	365
122	Electrical control of spin coherence in ZnO. Applied Physics Letters, 2008, 92, 162109.	3.3	20
123	Decoherence dynamics of a single spin versus spin ensemble. Physical Review B, 2008, 77, .	3.2	55
124	The Diamond Age of Spintronics: Room Temperature Spin Control. , 2008, , .		0
125	High-field magnetocrystalline anisotropic resistance effect in (Ga,Mn)As. Physical Review B, 2008, 77, .	3.2	33
126	Excited-State Spectroscopy Using Single Spin Manipulation in Diamond. Physical Review Letters, 2008, 101, 117601.	7.8	160

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127	Electrical Manipulation of Spins in Nonmagnetic Semiconductors. Journal of the Physical Society of Japan, 2008, 77, 031006.	1.6	8
128	Spin control in semiconductors: Variations on a theme. , 2007, , .		0
129	Magnetotransport properties of strainedGa0.95Mn0.05Asepilayers close to the metal-insulator transition: Description using Aronov-Altshuler three-dimensional scaling theory. Physical Review B, 2007, 75, .	3.2	16
130	Challenges for semiconductor spintronics. Nature Physics, 2007, 3, 153-159.	16.7	1,457
131	Optically detected coherent spin dynamics of a single electron in a quantum dot. Nature Physics, 2007, 3, 770-773.	16.7	121
132	The Diamond Age Diamond Age of Spintronics. Scientific American, 2007, 297, 84-91.	1.0	97
133	Propagation dynamics of individual domain walls inGa1â^'xMnxAsmicrodevices. Physical Review B, 2006, 74, .	3.2	26
134	Dynamics of coupled qubits interacting with an off-resonant cavity. Physical Review B, 2006, 73, .	3.2	33
135	Initialization and read-out of spins in coupled coreâ€“shell quantum dots. Nature Physics, 2006, 2, 831-834.	16.7	35
136	Polarization and Readout of Coupled Single Spins in Diamond. Physical Review Letters, 2006, 97, 087601.	7.8	210
137	Antisite effect on hole-mediated ferromagnetism in (Ga,Mn)As. Physical Review B, 2006, 74, .	3.2	45
138	Spatial imaging of the spin Hall effect and current-induced polarization in two-dimensional electron gases. Nature Physics, 2005, 1, 31-35.	16.7	415
139	Anisotropic interactions of a single spin and dark-spin spectroscopy in diamond. Nature Physics, 2005, 1, 94-98.	16.7	326
140	Domain-wall dynamics at micropatterned constrictions in ferromagnetic (Ga,Mn)As epilayers. Journal of Applied Physics, 2005, 97, 063903.	2.5	8
141	Infrared survey of the carrier dynamics in III-V digital ferromagnetic heterostructures. Physical Review B, 2005, 71, .	3.2	20
142	Optoelectronic control of spin dynamics at near-terahertz frequencies in magnetically doped quantum wells. Physical Review B, 2005, 72, .	3.2	18
143	Magnetoresistance anomalies in (Ga,Mn)As epilayers with perpendicular magnetic anisotropy. Physical Review B, 2005, 71, .	3.2	42
144	Concentration-independent local ferromagnetic Mn configuration inGa1â^'xMnxAs. Physical Review B, 2005, 71, .	3.2	21

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145	Static and dynamic spectroscopy of(Al,Ga)Asâ•GaAsmicrodisk lasers with interface fluctuation quantum dots. Physical Review B, 2005, 71, .	3.2	24
146	Local manipulation of nuclear spin in a semiconductor quantum well. , 2005, , .		0
147	Structure-controlled magnetic anisotropy in ferromagnetic semiconductor superlattices. Physical Review B, 2004, 69, .	3.2	5
148	Control of electron-spin coherence using Landau level quantization in a two-dimensional electron gas. Physical Review B, 2004, 70, .	3.2	23
149	Discrete Fourier transform in nanostructures using scattering. Journal of Applied Physics, 2004, 95, 8167-8171.	2.5	1
150	Ellipsometric study of the electronic structure ofGa1â^'xMnxAsand low-temperatureGaAs. Physical Review B, 2004, 70, .	3.2	76
151	Structural engineering of ferromagnetism in IIIâ€"V digital ferromagnetic heterostructures. Journal of Applied Physics, 2004, 95, 4922-4927.	2.5	3
152	Highly enhanced Curie temperature in low-temperature annealed [Ga,Mn]As epilayers. Applied Physics Letters, 2003, 82, 2302-2304.	3.3	302
153	Optical and electronic manipulation of spin coherence in semiconductors. Proceedings of the IEEE, 2003, 91, 752-760.	21.3	8
154	Optoelectronic control of electron and nuclear spins in semiconductor nanostructures. , 2003, , .		0
155	Damping of micromechanical structures by paramagnetic relaxation. Applied Physics Letters, 2003, 82, 3532-3534.	3.3	6
156	Theory of semiconductor magnetic bipolar transistors. Applied Physics Letters, 2003, 82, 4740-4742.	3.3	90
157	Spin-polarized Zener tunneling in (Ga,Mn)As. Physical Review B, 2002, 65, .	3.2	120
158	Hanle effect measurements of spin lifetimes in InAs self-assembled quantum dots. Applied Physics Letters, 2001, 78, 733-735.	3.3	46
159	Spin coherence and dephasing in GaN. Physical Review B, 2001, 63, .	3.2	190
160	Growth and characterization of MnAs/ZnSe ferromagnet/semiconductor hybrid heterostructures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 1439.	1.6	5
161	Teaching magnets new tricks. Nature, 2000, 408, 923-924.	27.8	82
162	Coherent Spin Dynamics and Spin Polarized Transport in Doped Semiconductors. Journal of Superconductivity and Novel Magnetism, 2000, 13, 201-208.	0.5	6

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163	Exciton spin polarization in magnetic semiconductor quantum wires. Applied Physics Letters, 2000, 76, 1167-1169.	3.3	27
164	Molecular beam epitaxy of MnAs/ZnSe hybrid ferromagnetic/semiconductor heterostructures. Applied Physics Letters, 2000, 77, 3812-3814.	3.3	21
165	(Ga,Mn)As as a digital ferromagnetic heterostructure. Applied Physics Letters, 2000, 77, 2379-2381.	3.3	168
166	All-Optical Magnetic Resonance in Semiconductors. Science, 2000, 287, 473-476.	12.6	226
167	Magnetism of nanometer-scale iron particles arrays (invited). Journal of Applied Physics, 1999, 85, 5249-5254.	2.5	60
168	Optical signatures from magnetic two-dimensional electron gases in magnetic fields to 60 T. Journal of Applied Physics, 1999, 85, 5932-5934.	2.5	4
169	Lateral drag of spin coherence in gallium arsenide. Nature, 1999, 397, 139-141.	27.8	804
170	Electrical spin injection in a ferromagnetic semiconductor heterostructure. Nature, 1999, 402, 790-792.	27.8	2,315
171	Magnetic Circular Dichroism Studies of Carrier-Induced Ferromagnetism in(Ga1â^'xMnx)As. Physical Review Letters, 1999, 83, 3073-3076.	7.8	258
172	Quantum Information Processing Using Quantum Dot Spins and Cavity QED. Physical Review Letters, 1999, 83, 4204-4207.	7.8	1,777
173	Magnetic anisotropy in arrays of nanometer-scale iron particles. IEEE Transactions on Magnetics, 1998, 34, 1105-1107.	2.1	13
174	Organizing nanometer-scale magnets with bacterial threads. IEEE Transactions on Magnetics, 1998, 34, 988-990.	2.1	5
175	Biomimetic Synthesis and Characterization of Magnetic Proteins (Magnetoferritin). Chemistry of Materials, 1998, 10, 279-285.	6.7	204
176	Submicron GaMn quasicrystals in ferromagnetic GaAs. Applied Physics Letters, 1997, 71, 143-145.	3.3	16
177	Quantum transport and magneto-optics in a magnetic two-dimensional electron gas. Journal of Applied Physics, 1997, 81, 4858-4860.	2.5	8
178	Room-Temperature Spin Memory in Two-Dimensional Electron Gases. Science, 1997, 277, 1284-1287.	12.6	503
179	A Î¼+SR study of the magnetic properties of ferritin. , 1997, 104, 269-274.		10
180	Magnetic Clusters in Molecular Beams, Metals, and Semiconductors. Science, 1996, 271, 937-941.	12.6	280

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181	Terahertz Spin Precession and Coherent Transfer of Angular Momenta in Magnetic Quantum Wells. Physical Review Letters, 1996, 77, 2814-2817.	7.8	188
182	Femtosecond synchronization of two passively modeâ€locked Ti:sapphire lasers. Review of Scientific Instruments, 1996, 67, 2068-2071.	1.3	36
183	Spatiotemporal Near-Field Spin Microscopy in Patterned Magnetic Heterostructures. Physical Review Letters, 1996, 76, 1948-1951.	7.8	97
184	Growth Dynamics and Exciton Localization in Strained CdSe Quantum Structures. Materials Research Society Symposia Proceedings, 1995, 417, 169.	0.1	4
185	Assembly of submicrometre ferromagnets in gallium arsenide semiconductors. Nature, 1995, 377, 707-710.	27.8	81
186	Threeâ€dimensional wavefront imaging by nearâ€field scanning optical microscopy. Review of Scientific Instruments, 1995, 66, 3385-3387.	1.3	8
187	Time-resolved Faraday rotation spectroscopy of spin dynamics in digital magnetic heterostructures. IEEE Journal of Selected Topics in Quantum Electronics, 1995, 1, 1082-1092.	2.9	65
188	Properties and measurement of scanning tunneling microscope fabricated ferromagnetic particle arrays (invited). Journal of Applied Physics, 1994, 76, 6656-6660.	2.5	189
189	Static and Dynamic Spin Organization in Magnetic Semiconductor Nanostructures. Acta Physica Polonica A, 1992, 82, 573-584.	0.5	1
190	Spatiotemporal near-field spin microscopy in digital magnetic heterostructures. , 0, , .		0
191	Observation of near field modal emission in InGaN multi-quantum well laser diodes by near field scanning optical microscopy. , 0, , .		0
192	Template effects on the molecular beam epitaxy of modulation-doped ZnSe/(Zn,Cd)Se quantum wells on [110] GaAs. , 0, , .		0
193	Semiconductor spintronics: manipulating electron and nuclear spins. , 0, , .		0
194	Gigahertz manipulation of electron spins in semiconductor nanostructures. , 0, , .		0
195	Spintronics: semiconductors, molecules, and quantum information. , 0, , .		1