

Nitin Samarth

List of Publications by Year in descending order

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304
papers

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15503

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123
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314
all docs

314
docs citations

314
times ranked

12726
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-transfer torque generated by a topological insulator. Nature, 2014, 511, 449-451.	27.8	1,134
2	Artificial $\tilde{\text{spin ice}}^{\text{TM}}$ in a geometrically frustrated lattice of nanoscale ferromagnetic islands. Nature, 2006, 439, 303-306.	27.8	729
3	Interface-induced phenomena in magnetism. Reviews of Modern Physics, 2017, 89, .	45.6	672
4	Ferromagnetic semiconductors: moving beyond (Ga,Mn)As. Nature Materials, 2005, 4, 195-202.	27.5	654
5	Room-Temperature Spin Memory in Two-Dimensional Electron Gases. Science, 1997, 277, 1284-1287.	12.6	503
6	Room-Temperature Spin-Orbit Torque Switching Induced by a Topological Insulator. Physical Review Letters, 2017, 119, 077702.	7.8	357
7	Hedgehog spin texture and Berry's phase tuning in a magnetic topological insulator. Nature Physics, 2012, 8, 616-622.	16.7	353
8	Effects of annealing time on defect-controlled ferromagnetism in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$. Applied Physics Letters, 2001, 79, 1495-1497.	3.3	319
9	Optical spin resonance and transverse spin relaxation in magnetic semiconductor quantum wells. Physical Review B, 1997, 56, 7574-7588.	3.2	307
10	Highly enhanced Curie temperature in low-temperature annealed [Ga,Mn]As epilayers. Applied Physics Letters, 2003, 82, 2302-2304.	3.3	302
11	Giant Spin Pumping and Inverse Spin Hall Effect in the Presence of Surface and Bulk Spin-Orbit Coupling of Topological Insulator Bi_2Se_3 . Nano Letters, 2015, 15, 7126-7132.	9.1	257
12	Ultrafast Manipulation of Electron Spin Coherence. Science, 2001, 292, 2458-2461.	12.6	255
13	Realization of the Axion Insulator State in Quantum Anomalous Hall Sandwich Heterostructures. Physical Review Letters, 2018, 120, 056801.	7.8	254
14	Evidence for electron-electron interaction in topological insulator thin films. Physical Review B, 2011, 83, .	3.2	244
15	Excitonic gain and laser emission in ZnSe-based quantum wells. Physical Review Letters, 1992, 69, 1707-1710.	7.8	235
16	Persistent sourcing of coherent spins for multifunctional semiconductor spintronics. Nature, 2001, 411, 770-772.	27.8	207
17	Current-Induced Polarization and the Spin Hall Effect at Room Temperature. Physical Review Letters, 2006, 97, 126603.	7.8	205
18	Spin scattering and noncollinear spin structure-induced intrinsic anomalous Hall effect in antiferromagnetic topological insulator $\langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{MnB} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle .$	3.6	204

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19	Growth of cubic (zinc blende) CdSe by molecular beam epitaxy. Applied Physics Letters, 1989, 54, 2680-2682.	3.3	196
20	Materials challenges and opportunities for quantum computing hardware. Science, 2021, 372, .	12.6	196
21	Interplay between superconductivity and ferromagnetism in crystalline nanowires. Nature Physics, 2010, 6, 389-394.	16.7	194
22	Terahertz Spin Precession and Coherent Transfer of Angular Momenta in Magnetic Quantum Wells. Physical Review Letters, 1996, 77, 2814-2817.	7.8	188
23	Quasi-two-dimensional excitons in (Zn,Cd)Se/ZnSe quantum wells: Reduced exciton-LO-phonon coupling due to confinement effects. Physical Review B, 1992, 45, 6037-6042.	3.2	185
24	Tetradymites as thermoelectrics and topological insulators. Nature Reviews Materials, 2017, 2, .	48.7	184
25	Near-field optical spectroscopy of localized excitons in strained CdSe quantum dots. Physical Review B, 1996, 54, R17312-R17315.	3.2	172
26	Impurity Band Conduction in a High Temperature Ferromagnetic Semiconductor. Physical Review Letters, 2006, 97, 087208.	7.8	162
27	Surface-State-Dominated Spin-Charge Current Conversion in Topological-Insulator-Ferromagnetic-Insulator Heterostructures. Physical Review Letters, 2016, 117, 076601.	7.8	162
28	Optical properties of zinc-blende CdSe and $Zn_xCd_{1-x}Se$ films grown on GaAs. Physical Review B, 1994, 49, 7262-7270.	3.2	161
29	Molecular beam epitaxy of $Zn_{1-x}Cd_xSe$ epilayers and ZnSe/ $Zn_{1-x}Cd_xSe$ superlattices. Applied Physics Letters, 1990, 56, 1163-1165.	3.3	159
30	Spintronics without magnetism. Physics Magazine, 0, 2, .	0.1	155
31	Spin superlattice formation in ZnSe/ $Zn_{1-x}Mn_xSe$ multilayers. Physical Review Letters, 1991, 67, 3824-3827.	7.8	135
32	Saturated ferromagnetism and magnetization deficit in optimally annealed $Ga_{1-x}Mn_xAs$ epilayers. Physical Review B, 2002, 66, .	3.2	135
33	Momentum-space imaging of Cooper pairing in a half-Dirac-gas topological superconductor. Nature Physics, 2014, 10, 943-950.	16.7	134
34	Interplay between ferromagnetism, surface states, and quantum corrections in a magnetically doped topological insulator. Physical Review B, 2012, 86, .	3.2	133
35	Coherent heteroepitaxy of Bi ₂ Se ₃ on GaAs (111)B. Applied Physics Letters, 2010, 97, .	3.3	132
36	Magnetic properties of diluted magnetic semiconductors: A review (invited). Journal of Applied Physics, 1987, 61, 3526-3531.	2.5	131

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37	Visualization of superparamagnetic dynamics in magnetic topological insulators. <i>Science Advances</i> , 2015, 1, e1500740.	10.3	129
38	Superconducting proximity effect and possible evidence for Pearl vortices in a candidate topological insulator. <i>Physical Review B</i> , 2011, 84, .	3.2	128
39	Direct Measurement of the Spin Polarization of the Magnetic Semiconductor (Ga,Mn)As. <i>Physical Review Letters</i> , 2003, 91, 056602.	7.8	125
40	Giant anisotropic magnetoresistance in a quantum anomalous Hall insulator. <i>Nature Communications</i> , 2015, 6, 7434.	12.8	125
41	Spin beats and dynamical magnetization in quantum structures. <i>Physical Review Letters</i> , 1994, 72, 717-720.	7.8	124
42	Room-temperature blue lasing action in (Zn,Cd)Se/ZnSe optically pumped multiple quantum well structures on lattice-matched (Ga,In)As substrates. <i>Applied Physics Letters</i> , 1990, 57, 2413-2415.	3.3	119
43	Enhanced Spin Interactions in Digital Magnetic Heterostructures. <i>Physical Review Letters</i> , 1995, 75, 505-508.	7.8	116
44	Coherent Transfer of Spin through a Semiconductor Heterointerface. <i>Physical Review Letters</i> , 2000, 84, 1015-1018.	7.8	114
45	Observation of quantum-tunnelling-modulated spin texture in ultrathin topological insulator Bi ₂ Se ₃ films. <i>Nature Communications</i> , 2014, 5, 3841.	12.8	112
46	Spin Transport and Localization in a Magnetic Two-Dimensional Electron Gas. <i>Physical Review Letters</i> , 1997, 78, 3571-3574.	7.8	109
47	Room-temperature exciton absorption in (Zn,Cd)Se/ZnSe quantum wells at blue-green wavelengths. <i>Applied Physics Letters</i> , 1990, 57, 2885-2887.	3.3	108
48	Spin-polarized tunneling study of spin-momentum locking in topological insulators. <i>Physical Review B</i> , 2015, 91, .	3.2	108
49	Raman spectroscopy of two novel semiconductors and related superlattices: Cubic Cd _{1-x} MnxSe and Cd _{1-x} ZnxSe. <i>Physical Review B</i> , 1989, 40, 3720-3728.	3.2	107
50	Magnetism in flatland. <i>Nature</i> , 2017, 546, 216-217.	27.8	106
51	Ultrafast Faraday spectroscopy in magnetic semiconductor quantum structures. <i>Physical Review B</i> , 1994, 50, 7689-7700.	3.2	103
52	Tuning the Chern number in quantum anomalous Hall insulators. <i>Nature</i> , 2020, 588, 419-423.	27.8	103
53	Neutron-diffraction studies of zinc-blende MnTe epitaxial films and MnTe/ZnTe superlattices: The effect of strain and dilution on a strongly frustrated fcc antiferromagnet. <i>Physical Review B</i> , 1993, 48, 12817-12833.	3.2	100
54	Spatiotemporal Near-Field Spin Microscopy in Patterned Magnetic Heterostructures. <i>Physical Review Letters</i> , 1996, 76, 1948-1951.	7.8	97

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55	Growth and characterization of hybrid insulating ferromagnet-topological insulator heterostructure devices. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	93
56	Absence of evidence for chiral Majorana modes in quantum anomalous Hall-superconductor devices. <i>Science</i> , 2020, 367, 64-67.	12.6	93
57	Spin dynamics and quantum transport in magnetic semiconductor quantum structures. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 200, 130-147.	2.3	90
58	Unidirectional spin-Hall and Rashba-Edelstein magnetoresistance in topological insulator-ferromagnet layer heterostructures. <i>Nature Communications</i> , 2018, 9, 111.	12.8	87
59	Observation of polaron dynamics in magnetic quantum wells. <i>Physical Review Letters</i> , 1991, 66, 1212-1215.	7.8	81
60	Spin-polarized tunneling in hybrid metal-semiconductor magnetic tunnel junctions. <i>Physical Review B</i> , 2002, 66, .	3.2	79
61	Mapping the chemical potential dependence of current-induced spin polarization in a topological insulator. <i>Physical Review B</i> , 2015, 92, .	3.2	78
62	Concurrence of quantum anomalous Hall and topological Hall effects in magnetic topological insulator sandwich heterostructures. <i>Nature Materials</i> , 2020, 19, 732-737.	27.5	72
63	Anomalous anisotropic magnetoresistance in topological insulator films. <i>Nano Research</i> , 2012, 5, 739-746.	10.4	71
64	Enhancement of spin coherence using Q-factor engineering in semiconductor microdisc lasers. <i>Nature Materials</i> , 2006, 5, 261-264.	27.5	69
65	Electron paramagnetic resonance in $\text{Cd}_{1-x}\text{MnxS}$, $\text{Cd}_{1-x}\text{MnxSe}$, and $\text{Cd}_{1-x}\text{MnxTe}$. <i>Physical Review B</i> , 1988, 37, 9227-9239.	3.2	66
66	Spectroscopic determination of hole density in the ferromagnetic semiconductor $\text{Ga}_{1-x}\text{MnxAs}$. <i>Physical Review B</i> , 2002, 66, .	3.2	66
67	Quantum Anomalous Hall Effect in Magnetically Doped InAs/GaSb Quantum Wells. <i>Physical Review Letters</i> , 2014, 113, 147201.	7.8	66
68	Helicity dependent photocurrent in electrically gated $(\text{Bi}_{1-x}\text{Sb}_x)_2\text{Te}_3$ thin films. <i>Nature Communications</i> , 2017, 8, 1037.	12.8	66
69	Time-resolved Faraday rotation spectroscopy of spin dynamics in digital magnetic heterostructures. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1995, 1, 1082-1092.	2.9	65
70	Nontrivial superconductivity in topological MoTe_2 crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9503-9508.	7.1	65
71	Magnetization switching using topological surface states. <i>Science Advances</i> , 2019, 5, eaaw3415.	10.3	65
72	Onset of Ferromagnetism in Low-Doped $\text{Ga}_{1-x}\text{MnxAs}$. <i>Physical Review Letters</i> , 2007, 99, 227205.	3.8	65

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73	Large discrete jumps observed in the transition between Chern states in a ferromagnetic topological insulator. <i>Science Advances</i> , 2016, 2, e1600167.	10.3	59
74	Quantum materials discovery from a synthesis perspective. <i>Nature Materials</i> , 2017, 16, 1068-1076.	27.5	59
75	Perpendicular Magnetization and Generic Realization of the Ising Model in Artificial Spin Ice. <i>Physical Review Letters</i> , 2012, 109, 087201.	7.8	58
76	Low threshold pulsed and continuous-wave laser action in optically pumped (Zn,Cd)Se/ZnSe multiple quantum well lasers in the blue-green. <i>Applied Physics Letters</i> , 1991, 59, 1293-1295.	3.3	57
77	Magnetization Measurements of Magnetic Two-Dimensional Electron Gases. <i>Physical Review Letters</i> , 2001, 86, 4644-4647.	7.8	55
78	Molecular Self-Assembly at Bare Semiconductor Surfaces: Cooperative Substrate-Molecule Effects in Octadecanethiolate Monolayer Assemblies on GaAs(111), (110), and (100). <i>ACS Nano</i> , 2010, 4, 3447-3465.	14.6	55
79	Molecular beam epitaxy of a low strain II-VI heterostructure: ZnTe/CdSe. <i>Applied Physics Letters</i> , 1991, 58, 1783-1785.	3.3	54
80	Observation of Localized Above-Barrier Excitons in Type-I Superlattices. <i>Physical Review Letters</i> , 1992, 68, 3220-3223.	7.8	53
81	Exchange biasing of the ferromagnetic semiconductor Ga _{1-x} MnxAs. <i>Applied Physics Letters</i> , 2004, 85, 1556-1558.	3.3	53
82	Ferromagnetism and spin-dependent transport in n-type Mn-doped bismuth telluride thin films. <i>Physical Review B</i> , 2014, 89, .	3.2	52
83	Point contact spin spectroscopy of ferromagnetic MnAs epitaxial films. <i>Physical Review B</i> , 2003, 68, .	3.2	51
84	Antiferromagnetism in ZnSe/MnSe strained-layer superlattices. <i>Physical Review B</i> , 1991, 44, 4701-4704.	3.2	50
85	Laser action in the blue-green from optically pumped (Zn,Cd)Se/ZnSe single quantum well structures. <i>Applied Physics Letters</i> , 1990, 57, 2756-2758.	3.3	48
86	Observation of quasibound states in semiconductor single quantum barriers. <i>Physical Review Letters</i> , 1993, 70, 1307-1310.	7.8	48
87	Andreev reflection and pair-breaking effects at the superconductor/magnetic semiconductor interface. <i>Physical Review B</i> , 2005, 72, .	3.2	48
88	Battle of the bands. <i>Nature Materials</i> , 2012, 11, 360-361.	27.5	48
89	Capping-induced suppression of annealing effects on Ga _{1-x} MnxAs epilayers. <i>Applied Physics Letters</i> , 2003, 83, 4568-4570.	3.3	47
90	Magneto-optical Kerr effect studies of square artificial spin ice. <i>Physical Review B</i> , 2011, 84, .	3.2	47

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91	Interplay between topological insulators and superconductors. <i>Physical Review B</i> , 2012, 85, .	3.2	47
92	Characterizing the structure of topological insulator thin films. <i>APL Materials</i> , 2015, 3, .	5.1	46
93	Antisite effect on hole-mediated ferromagnetism in (Ga,Mn)As. <i>Physical Review B</i> , 2006, 74, .	3.2	45
94	Zero-dimensional excitonic confinement in locally strained Zn _{1-x} Cd _x Se quantum wells. <i>Applied Physics Letters</i> , 1997, 71, 1213-1215.	3.3	44
95	Giant magnetoresistance and quantum phase transitions in strongly localized magnetic two-dimensional electron gases. <i>Physical Review B</i> , 1998, 58, R4238-R4241.	3.2	43
96	Magnetoresistance anomalies in (Ga,Mn)As epilayers with perpendicular magnetic anisotropy. <i>Physical Review B</i> , 2005, 71, .	3.2	42
97	Femtosecond scattering dynamics in magnetic semiconductor spin superlattices. <i>Physical Review Letters</i> , 1993, 71, 601-604.	7.8	41
98	Observation of type-I excitons and related confinement effects in type-II superlattices. <i>Physical Review B</i> , 1993, 47, 3806-3810.	3.2	41
99	Magnetic semiconductor quantum wells in high fields to 60 Tesla: Photoluminescence linewidth annealing at magnetization steps. <i>Physical Review B</i> , 1999, 60, R2173-R2176.	3.2	40
100	Band offsets and exciton confinement in Zn _{1-y} Cd _y Se/Zn _{1-x} Mn _x Se quantum wells. <i>Applied Physics Letters</i> , 1990, 57, 466-468.	3.3	39
101	Antiferromagnetism in epilayers and superlattices containing zinc-blende MnSe and MnTe. <i>Journal of Applied Physics</i> , 1991, 70, 6221-6223.	2.5	39
102	Diluted magnetic semiconductors. <i>Proceedings of the IEEE</i> , 1990, 78, 990-1003.	21.3	37
103	Strain-engineered incommensurability in epitaxial Heisenberg antiferromagnets. <i>Physical Review B</i> , 1992, 46, 12076-12079.	3.2	36
104	Static magnetic susceptibility of Zn _{1-x} Mn _x Se. <i>Physical Review B</i> , 1988, 37, 3707-3709.	3.2	35
105	Deep hole traps in p-type nitrogen-doped ZnSe grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 1993, 63, 358-360.	3.3	34
106	Femtosecond near-field spin microscopy in digital magnetic heterostructures (invited). <i>Journal of Applied Physics</i> , 1996, 79, 6095.	2.5	34
107	Fermi-level electronic structure of a topological-insulator/cuprate-superconductor based heterostructure in the superconducting proximity effect regime. <i>Physical Review B</i> , 2014, 90, .	3.2	34
108	Two-carrier transport in epitaxially grown MnAs. <i>Physical Review B</i> , 2001, 64, .	3.2	33

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109	Coercive field and magnetization deficit in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ epilayers. Journal of Applied Physics, 2003, 93, 6784-6786.	2.5	33
110	Fermi level dependent spin pumping from a magnetic insulator into a topological insulator. Physical Review Research, 2019, 1, .	3.6	33
111	Understanding magnetotransport signatures in networks of connected permalloy nanowires. Physical Review B, 2017, 95, .	3.2	32
112	Spin-valley locking and bulk quantum Hall effect in a noncentrosymmetric Dirac semimetal BaMnSb_2 . Nature Communications, 2021, 12, 4062.	12.8	32
113	$\text{ZrTe}_2/\text{CrTe}_2$: an epitaxial van der Waals platform for spintronics. Nature Communications, 2022, 13, .	12.8	32
114	Unusual elastic constants of cubic MnTe in strained-layer superlattices measured by x-ray diffraction. Physical Review B, 1994, 49, 4619-4622.	3.2	31
115	Persistent optical gating of a topological insulator. Science Advances, 2015, 1, e1500640.	10.3	31
116	Proximity-effect-induced Superconducting Gap in Topological Surface States – A Point Contact Spectroscopy Study of $\text{NbSe}_2/\text{Bi}_2\text{Se}_3$ Superconductor-Topological Insulator Heterostructures. Scientific Reports, 2017, 7, 7631.	3.3	31
117	Interface-induced sign reversal of the anomalous Hall effect in magnetic topological insulator heterostructures. Nature Communications, 2021, 12, 79.	12.8	31
118	Excitonic gain and stimulated emission in ZnSe -based quantum wells up to room temperature. Surface Science, 1992, 267, 616-622.	1.9	30
119	Tunable Anomalous Hall Effect in a Nonferromagnetic System. Physical Review Letters, 2006, 96, 196404.	7.8	28
120	Ferromagnetism in $\text{Bi}_2\text{Se}_3/\text{Mn}$ epitaxial layers. Physical Review B, 2013, 88, .	3.2	28
121	Topological Hall Effect in a Topological Insulator Interfaced with a Magnetic Insulator. Nano Letters, 2021, 21, 84-90.	9.1	28
122	Ultraviolet and blue holographic lithography of ZnSe epilayers and heterostructures with feature size to 100 nm and below. Applied Physics Letters, 1990, 57, 2641-2643.	3.3	27
123	Femtosecond Faraday rotation in spin-engineered heterostructures (invited). Journal of Applied Physics, 1994, 75, 6199-6204.	2.5	27
124	Exciton spin polarization in magnetic semiconductor quantum wires. Applied Physics Letters, 2000, 76, 1167-1169.	3.3	27
125	Optical Manipulation, Transport and Storage of Spin Coherence in Semiconductors. Nanoscience and Technology, 2002, , 147-193.	1.5	27
126	Hybrid ferromagnetic/semiconductor heterostructures for spintronics. Solid State Communications, 2003, 127, 173-179.	1.9	27

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127	Molecular beam epitaxy of cubic Zn $_{1-x}$ Cd $_x$ Se and Cd $_{1-x}$ Mn $_x$ Se and related superlattices. Surface Science, 1990, 228, 226-229.	1.9	26
128	Intrinsic exchange biasing in MnAs epilayers grown on (001) GaAs. Applied Physics Letters, 2001, 78, 2530-2532.	3.3	26
129	Spin valve effect in self-exchange biased ferromagnetic metal/semiconductor bilayers. Applied Physics Letters, 2007, 91, .	3.3	26
130	Changes of Magnetism in a Magnetic Insulator due to Proximity to a Topological Insulator. Physical Review Letters, 2020, 125, 017204.	7.8	26
131	A proposed interpretation of EPR linewidth in diluted magnetic semiconductors. Solid State Communications, 1988, 65, 801-804.	1.9	25
132	Spin tuning in magnetically coupled double quantum wells. Physical Review B, 1992, 46, 4340-4343.	3.2	25
133	An optical method for evaluation of the net acceptor concentration in ZnSe . Journal of Applied Physics, 1993, 74, 4153-4157.	2.5	25
134	Nanoengineered Curie temperature in laterally patterned ferromagnetic semiconductor heterostructures. Applied Physics Letters, 2005, 86, 152505.	3.3	25
135	$\text{Ga}_{1-x}\text{Mn}_x\text{As}$ and $\text{Ga}_{1-x}\text{Mn}_x\text{Sb}$. Applied Physics Letters, 2005, 86, 152505.	3.2	25
136	Structure, mechanical and thermal properties of polypropylene based hybrid composites with banana fiber and fly ash. Materials Research Express, 2019, 6, 075318.	1.6	25
137	Molecular beam epitaxy of CdSe and the derivative alloys Zn $_{1-x}$ Cd $_x$ Se and Cd $_{1-x}$ M $_x$ Se. Journal of Electronic Materials, 1990, 19, 543-547.	2.2	24
138	Fabrication of n -doped magnetic semiconductor heterostructures. Applied Physics Letters, 1996, 69, 1640-1642.	3.3	24
139	Quasi-two-dimensional spin distributions in II-VI magnetic semiconductor heterostructures: Clustering and dimensionality. Physical Review B, 2000, 61, 1736-1739.	3.2	24
140	Static and dynamic spectroscopy of (Al,Ga)As/GaAs microdisk lasers with interface fluctuation quantum dots. Physical Review B, 2005, 71, .	3.2	24
141	Theoretical analysis of the influence of magnetic domain walls on longitudinal and transverse magnetoresistance in tensile strained (Ga,Mn)As epilayers. Physical Review B, 2007, 76, .	3.2	24
142	Noncollinear spin valve effect in ferromagnetic semiconductor trilayers. Physical Review B, 2007, 76, .	3.2	24
143	Ruled by a magnetic-rich minority. Nature Materials, 2007, 6, 403-404.	27.5	24
144	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

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145	Stability of trions in strongly spin-polarized two-dimensional electron gases. <i>Physical Review B</i> , 2000, 61, R16307-R16310.	3.2	23
146	Observation of Interfacial Antiferromagnetic Coupling between Magnetic Topological Insulator and Antiferromagnetic Insulator. <i>Nano Letters</i> , 2019, 19, 2945-2952.	9.1	23
147	Antiferromagnetic ordering in MnSe/ZnSe multilayers. <i>Journal of Applied Physics</i> , 1991, 69, 6109-6111.	2.5	22
148	Femtosecond spin spectroscopy in magnetically tunable heterostructures. <i>Physical Review B</i> , 1994, 50, 10851-10855.	3.2	22
149	Resonant amplification of spin transferred across a GaAs/ZnSe interface. <i>Journal of Applied Physics</i> , 2000, 87, 5073-5075.	2.5	22
150	Surface-Sensitive Two-Dimensional Magneto-Fingerprint in Mesoscopic Bi ₂ Se ₃ Channels. <i>Nano Letters</i> , 2013, 13, 2471-2476.	9.1	22
151	Sum-Rule Constraints on the Surface State Conductance of Topological Insulators. <i>Physical Review Letters</i> , 2015, 115, 116804.	7.8	22
152	Molecular beam epitaxy of MnAs/ZnSe hybrid ferromagnetic/semiconductor heterostructures. <i>Applied Physics Letters</i> , 2000, 77, 3812-3814.	3.3	21
153	Measurements of Landau-level crossings and extended states in magnetic two-dimensional electron gases. <i>Physical Review B</i> , 2002, 65, .	3.2	21
154	Scaling Theory of Magnetoresistance and Carrier Localization in GaMnAs . <i>Physical Review Letters</i> , 2009, 102, 137203.	7.8	21
155	Infrared electrodynamic and ferromagnetism in the topological semiconductors Bi ₂ Te ₃ and Mn-doped Bi ₂ Te ₃ . <i>Physical Review B</i> , 2014, 89, .	3.2	21
156	Faraday Rotation Due to Surface States in the Topological Insulator (Bi ₂ Se ₃) ₂ Te ₃ . <i>Nano Letters</i> , 2017, 17, 980-984.	9.1	21
157	Confined Chemical Fluid Deposition of Ferromagnetic Metal lattices. <i>Nano Letters</i> , 2018, 18, 546-552.	9.1	21
158	Gallium-related defect centers in molecular-beam-epitaxy-grown ZnSe films: Influence of electric field on thermal emission of electrons. <i>Physical Review B</i> , 1993, 47, 9641-9649.	3.2	20
159	Spectroellipsometry for characterization of Zn _{1-x} Cd _x Se multilayered structures on GaAs. <i>Applied Physics Letters</i> , 1996, 69, 2273-2275.	3.3	20
160	Magneto-optical spin spectroscopy in hybrid ferromagnetic semiconductor heterostructures. <i>Journal of Applied Physics</i> , 1997, 81, 5441-5443.	2.5	20
161	Effects of exchange bias on magnetotransport in permalloy kagome artificial spin ice. <i>New Journal of Physics</i> , 2015, 17, 023047.	2.9	20
162	Engineering the breaking of time-reversal symmetry in gate-tunable hybrid ferromagnet/topological insulator heterostructures. <i>Npj Quantum Materials</i> , 2018, 3, .	5.2	20

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163	Anomalous Quantum Oscillations of Interacting Electron-Hole Gases in Inverted Type-II InAs/GaSb Quantum Wells. Physical Review Letters, 2019, 122, 186802.	7.8	20
164	Scaling behavior of the quantum phase transition from a quantum-anomalous-Hall insulator to an axion insulator. Nature Communications, 2020, 11, 4532.	12.8	20
165	Spin and Charge Interconversion in Dirac-Semimetal Thin Films. Physical Review Applied, 2021, 16, .	3.8	20
166	Observation of novel type-I excitons in type-II superlattices. Solid State Communications, 1993, 85, 691-694.	1.9	19
167	An Introduction to Semiconductor Spintronics. Solid State Physics, 2004, 58, 1-72.	0.5	19
168	Interlayer and interfacial exchange coupling in ferromagnetic metal/semiconductor heterostructures. Physical Review B, 2010, 81, .	3.2	19
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