

# Tomas Jungwirth

## List of Publications by Year in descending order

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248  
papers

27,083  
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10650

74  
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6512

162  
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255  
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255  
docs citations

255  
times ranked

14504  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin Hall effects. Reviews of Modern Physics, 2015, 87, 1213-1260.	16.4	2,087
2	Universal Intrinsic Spin Hall Effect. Physical Review Letters, 2004, 92, 126603.	2.9	1,858
3	Antiferromagnetic spintronics. Nature Nanotechnology, 2016, 11, 231-241.	15.6	1,578
4	Experimental Observation of the Spin-Hall Effect in a Two-Dimensional Spin-Orbit Coupled Semiconductor System. Physical Review Letters, 2005, 94, 047204.	2.9	1,317
5	Theory of ferromagnetic (III,Mn)V semiconductors. Reviews of Modern Physics, 2006, 78, 809-864.	16.4	1,132
6	Electrical switching of an antiferromagnet. Science, 2016, 351, 587-590.	6.0	1,049
7	Current-induced spin-orbit torques in ferromagnetic and antiferromagnetic systems. Reviews of Modern Physics, 2019, 91, .	16.4	899
8	Anomalous Hall Effect in Ferromagnetic Semiconductors. Physical Review Letters, 2002, 88, 207208.	2.9	758
9	First Principles Calculation of Anomalous Hall Conductivity in Ferromagnetic bcc Fe. Physical Review Letters, 2004, 92, 037204.	2.9	715
10	Interface-induced phenomena in magnetism. Reviews of Modern Physics, 2017, 89, .	16.4	672
11	Room-temperature antiferromagnetic memory resistor. Nature Materials, 2014, 13, 367-374.	13.3	546
12	A spin-valve-like magnetoresistance of an antiferromagnet-based tunnel junction. Nature Materials, 2011, 10, 347-351.	13.3	485
13	Spin Hall effect devices. Nature Materials, 2012, 11, 382-390.	13.3	425
14	Prospects for high temperature ferromagnetism in (Ga,Mn)As semiconductors. Physical Review B, 2005, 72, .	1.1	382
15	Relativistic Néel-Order Fields Induced by Electrical Current in Antiferromagnets. Physical Review Letters, 2014, 113, 157201.	2.9	377
16	The multiple directions of antiferromagnetic spintronics. Nature Physics, 2018, 14, 200-203.	6.5	365
17	Tunneling Anisotropic Magnetoresistance: A Spin-Valve-Like Tunnel Magnetoresistance Using a Single Magnetic Layer. Physical Review Letters, 2004, 93, 117203.	2.9	355
18	Writing and reading antiferromagnetic Mn <sub>2</sub> Au by Néel spin-orbit torques and large anisotropic magnetoresistance. Nature Communications, 2018, 9, 348.	5.8	348

#	ARTICLE	IF	CITATIONS
19	Theory of magnetic anisotropy in $\text{Mn}_x\text{V}_y\text{ferromagnets}$ . <i>Physical Review B</i> , 2001, 63, .	1.1	312
20	Spin Hall Effect Transistor. <i>Science</i> , 2010, 330, 1801-1804.	6.0	288
21	The 2017 Magnetism Roadmap. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 363001.	1.3	279
22	An antidamping spin-orbit torque originating from the Berry curvature. <i>Nature Nanotechnology</i> , 2014, 9, 211-217.	15.6	273
23	Band structure of semimagnetic $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$ quantum wells. <i>Physical Review B</i> , 2005, 72, .	1.1	264
24	Interlayer coupling in ferromagnetic semiconductor superlattices. <i>Physical Review B</i> , 1999, 59, 9818-9821.	1.1	250
25	Anomalous Hall effect in a two-dimensional Dirac band: The link between the Kubo-Streda formula and the semiclassical Boltzmann equation approach. <i>Physical Review B</i> , 2007, 75, .	1.1	238
26	Terahertz electrical writing speed in an antiferromagnetic memory. <i>Science Advances</i> , 2018, 4, eaar3566.	4.7	221
27	Spin-orbit coupling induced anisotropy effects in bimetallic antiferromagnets: A route towards antiferromagnetic spintronics. <i>Physical Review B</i> , 2010, 81, .	1.1	211
28	High Antiferromagnetic Domain Wall Velocity Induced by Néel Spin-Orbit Torques. <i>Physical Review Letters</i> , 2016, 117, 017202.	2.9	209
29	Semiclassical Spin Transport in Spin-Orbit-Coupled Bands. <i>Physical Review Letters</i> , 2004, 93, 046602.	2.9	188
30	Spin-orbit-driven ferromagnetic resonance. <i>Nature Nanotechnology</i> , 2011, 6, 413-417.	15.6	182
31	Crystal time-reversal symmetry breaking and spontaneous Hall effect in collinear antiferromagnets. <i>Science Advances</i> , 2020, 6, eaaz8809.	4.7	177
32	Multiple-stable anisotropic magnetoresistance memory in antiferromagnetic $\text{MnTe}$ . <i>Nature Communications</i> , 2016, 7, 11623.	5.8	169
33	Imaging Current-Induced Switching of Antiferromagnetic Domains in $\text{CuMnAs}$ . <i>Physical Review Letters</i> , 2017, 118, 057701.	2.9	153
34	Non-volatile ferroelectric control of ferromagnetism in $(\text{Ga},\text{Mn})\text{As}$ . <i>Nature Materials</i> , 2008, 7, 464-467.	13.3	150
35	Antiferromagnetic $\text{CuMnAs}$ multi-level memory cell with microelectronic compatibility. <i>Nature Communications</i> , 2017, 8, 15434.	5.8	149
36	Very Large Tunneling Anisotropic Magnetoresistance of a $(\text{Ga},\text{Mn})\text{As}/\text{GaAs}/(\text{Ga},\text{Mn})\text{As}$ Stack. <i>Physical Review Letters</i> , 2005, 94, 027203.	2.9	143

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37	Spin-dependent phenomena and device concepts explored in (Ga,Mn)As. <i>Reviews of Modern Physics</i> , 2014, 86, 855-896.	16.4	141
38	Character of states near the Fermi level in (Ga,Mn)As: Impurity to valence band crossover. <i>Physical Review B</i> , 2007, 76, .	1.1	139
39	Anisotropic magnetoresistance in an antiferromagnetic semiconductor. <i>Nature Communications</i> , 2014, 5, 4671.	5.8	136
40	Manifestation of the spin Hall effect through charge-transport in the mesoscopic regime. <i>Physical Review B</i> , 2004, 70, .	1.1	133
41	Curie Point Singularity in the Temperature Derivative of Resistivity in (Ga,Mn)As. <i>Physical Review Letters</i> , 2008, 101, 077201.	2.9	132
42	Electric Control of Dirac Quasiparticles by Spin-Orbit Torque in an Antiferromagnet. <i>Physical Review Letters</i> , 2017, 118, 106402.	2.9	131
43	Pseudospin anisotropy classification of quantum Hall ferromagnets. <i>Physical Review B</i> , 2000, 63, .	1.1	128
44	Curie temperature trends in (III,Mn)V ferromagnetic semiconductors. <i>Physical Review B</i> , 2002, 66, .	1.1	125
45	Tetragonal phase of epitaxial room-temperature antiferromagnet CuMnAs. <i>Nature Communications</i> , 2013, 4, 2322.	5.8	123
46	First-order phase transitions in a quantum Hall ferromagnet. <i>Nature</i> , 1999, 402, 638-641.	13.7	122
47	Experimental observation of the optical spin transfer torque. <i>Nature Physics</i> , 2012, 8, 411-415.	6.5	119
48	Current polarity-dependent manipulation of antiferromagnetic domains. <i>Nature Nanotechnology</i> , 2018, 13, 362-365.	15.6	116
49	Spin-orbit torques in locally and globally noncentrosymmetric crystals: Antiferromagnets and ferromagnets. <i>Physical Review B</i> , 2017, 95, .	1.1	113
50	Theory of magnetic properties and spin-wave dispersion for ferromagnetic (Ga,Mn)As. <i>Physical Review B</i> , 2001, 64, .	1.1	111
51	Enhanced annealing, high Curie temperature, and low-voltage gating in (Ga,Mn)As: A surface oxide control study. <i>Physical Review B</i> , 2008, 78, .	1.1	110
52	Theory of ferromagnetism in diluted magnetic semiconductor quantum wells. <i>Physical Review B</i> , 2000, 61, 15606-15609.	1.1	108
53	Concepts of antiferromagnetic spintronics. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700022.	1.2	108
54	Anisotropic Magnetoresistance Components in (Ga,Mn)As. <i>Physical Review Letters</i> , 2007, 99, 147207.	2.9	107

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55	Optical determination of the Néel vector in a CuMnAs thin-film antiferromagnet. Nature Photonics, 2017, 11, 91-96.	15.6	103
56	Electrical manipulation of ferromagnetic NiFe by antiferromagnetic IrMn. Physical Review B, 2015, 92, .	1.1	102
57	Coulomb Blockade Anisotropic Magnetoresistance Effect in a (Ga,Mn)As Single-Electron Transistor. Physical Review Letters, 2006, 97, 077201.	2.9	100
58	Dc-transport properties of ferromagnetic (Ga,Mn)As semiconductors. Applied Physics Letters, 2003, 83, 320-322.	1.5	98
59	Temperature Dependence of Itinerant Electron Junction Magnetoresistance. Physical Review Letters, 1998, 81, 705-708.	2.9	95
60	Tunneling Anisotropic Magnetoresistance in Multilayer- $\text{Co}/\text{Pt}/\text{Tj ET 200 0 0 r 8 T / Overlo}$ Physical Review Letters, 2008, 100, 087204.	2.9	93
61	Resistance Spikes and Domain Wall Loops in Ising Quantum Hall Ferromagnets. Physical Review Letters, 2001, 87, 216801.	2.9	93
62	Anomalous Hall antiferromagnets. Nature Reviews Materials, 2022, 7, 482-496.	23.3	93
63	Voltage control of magnetocrystalline anisotropy in ferromagnetic-semiconductor-piezoelectric hybrid structures. Physical Review B, 2008, 78, .	1.1	90
64	Large Tunneling Anisotropic Magnetoresistance in (Ga,Mn)As Nanoconstrictions. Physical Review Letters, 2005, 94, 127202.	2.9	88
65	Field-tilt anisotropy energy in quantum Hall stripe states. Physical Review B, 1999, 60, 15574-15577.	1.1	86
66	Edge-spin accumulation in semiconductor two-dimensional hole gases. Physical Review B, 2005, 72, .	1.1	83
67	Efficient Electrical Spin Splitter Based on Nonrelativistic Collinear Antiferromagnetism. Physical Review Letters, 2021, 126, 127701.	2.9	83
68	The essential role of carefully optimized synthesis for elucidating intrinsic material properties of (Ga,Mn)As. Nature Communications, 2013, 4, 1422.	5.8	82
69	Magnetic Anisotropy in Quantum Hall Ferromagnets. Physical Review Letters, 1998, 81, 2328-2331.	2.9	80
70	Magnetization relaxation in (Ga,Mn)As ferromagnetic semiconductors. Physical Review B, 2004, 69, .	1.1	79
71	Room-temperature spin-orbit torque in NiMnSb. Nature Physics, 2016, 12, 855-860.	6.5	79
72	Electrically induced and detected Néel vector reversal in a collinear antiferromagnet. Nature Communications, 2018, 9, 4686.	5.8	79

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73	Charge Hall effect driven by spin-dependent chemical potential gradients and Onsager relations in mesoscopic systems. <i>Physical Review B</i> , 2005, 72, .	1.1	78
74	Boltzmann theory of engineered anisotropic magnetoresistance in (Ga,Mn)As. <i>Applied Physics Letters</i> , 2002, 81, 4029-4031.	1.5	77
75	Anomalous Hall effect in a two-dimensional electron gas. <i>Physical Review B</i> , 2007, 76, .	1.1	76
76	Dilute Momentn-Type Ferromagnetic Semiconductor Li(Zn,Mn)As. <i>Physical Review Letters</i> , 2007, 98, 067202.	2.9	75
77	Electrical detection of magnetization reversal without auxiliary magnets. <i>Physical Review B</i> , 2015, 91, .	1.1	72
78	MAGNETO-TRANSPORT AND MAGNETO-OPTICAL PROPERTIES OF FERROMAGNETIC (III,Mn)V SEMICONDUCTORS: A REVIEW. <i>International Journal of Modern Physics B</i> , 2004, 18, 1083-1118.	1.0	71
79	Magnetocrystalline anisotropies in (Ga,Mn)As: Systematic theoretical study and comparison with experiment. <i>Physical Review B</i> , 2009, 80, .	1.1	71
80	Electrical Measurement of Antiferromagnetic Moments in Exchange-Coupled $\text{IrMn/NiFe}$ Stacks. <i>Physical Review Letters</i> , 2012, 108, 017201.	2.9	70
81	Epitaxy-distorted spin-orbit Mott insulator in $\text{SrIrO}_2$ thin films. <i>Physical Review B</i> , 2013, 87, .	1.1	70
82	Spin-injection Hall effect in a planar photovoltaic cell. <i>Nature Physics</i> , 2009, 5, 675-681.	6.5	68
83	Antiferromagnetic structure in tetragonal CuMnAs thin films. <i>Scientific Reports</i> , 2015, 5, 17079.	1.6	68
84	Semiclassical framework for the calculation of transport anisotropies. <i>Physical Review B</i> , 2009, 79, .	1.1	66
85	Electron-electron interactions and two-dimensional tunneling. <i>Physical Review B</i> , 1996, 53, 7403-7412.	1.1	65
86	Piezoelectric control of the mobility of a domain wall driven by adiabatic and non-adiabatic torques. <i>Nature Materials</i> , 2013, 12, 808-814.	13.3	64
87	Intraband and interband spin-orbit torques in noncentrosymmetric ferromagnets. <i>Physical Review B</i> , 2015, 91, .	1.1	64
88	Local control of magnetocrystalline anisotropy in (Ga,Mn)As microdevices: Demonstration in current-induced switching. <i>Physical Review B</i> , 2007, 76, .	1.1	63
89	Broken-symmetry ground states in $\text{In}_{1/2}\text{Sb}$ bilayer quantum Hall systems. <i>Physical Review B</i> , 1999, 60, 8817-8826.	1.1	62
90	Anisotropic magnetoresistance of spin-orbit coupled carriers scattered from polarized magnetic impurities. <i>Physical Review B</i> , 2009, 80, .	1.1	61

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91	Room-temperature antiferromagnetism in CuMnAs. Journal of Magnetism and Magnetic Materials, 2012, 324, 1606-1612.	1.0	59
92	Lithographically and electrically controlled strain effects on anisotropic magnetoresistance in (Ga,Mn)As. New Journal of Physics, 2008, 10, 065003.	1.2	57
93	Storing magnetic information in IrMn/MgO/Ta tunnel junctions via field-cooling. Applied Physics Letters, 2013, 102, .	1.5	56
94	Demonstration of molecular beam epitaxy and a semiconducting band structure for I-Mn-V compounds. Physical Review B, 2011, 83, .	1.1	55
95	Imaging and writing magnetic domains in the non-collinear antiferromagnet Mn <sub>3</sub> Sn. Nature Communications, 2019, 10, 5459.	5.8	55
96	Ferromagnetism in diluted magnetic semiconductor heterojunction systems. Semiconductor Science and Technology, 2002, 17, 393-403.	1.0	54
97	Nonvanishing spin Hall currents in disordered spin-orbit coupling systems. Physical Review B, 2005, 71, .	1.1	52
98	Route towards Dirac and Weyl antiferromagnetic spintronics. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700044.	1.2	51
99	Prospect for room temperature tunneling anisotropic magnetoresistance effect: Density of states anisotropies in CoPt systems. Physical Review B, 2006, 73, .	1.1	50
100	Experimental observation of the optical spin-orbit torque. Nature Photonics, 2013, 7, 492-498.	15.6	50
101	Light-induced magnetization precession in GaMnAs. Applied Physics Letters, 2008, 92, .	1.5	49
102	Electric control of the spin Hall effect by intervalley transitions. Nature Materials, 2014, 13, 932-937.	13.3	49
103	Magnetic anisotropy in antiferromagnetic hexagonal MnTe. Physical Review B, 2017, 96, .	1.1	49
104	Low-temperature magnetization of (Ga,Mn)As semiconductors. Physical Review B, 2006, 73, .	1.1	48
105	In-plane magnetic-field-induced anisotropy of 2D Fermi contours and the field-dependent cyclotron mass. Journal of Physics Condensed Matter, 1994, 6, 55-64.	0.7	47
106	An investigation of orientational symmetry-breaking mechanisms in high Landau levels. Solid State Communications, 2001, 119, 89-94.	0.9	47
107	Infrared conductivity of metallic (III,Mn)V ferromagnets. Physical Review B, 2002, 66, .	1.1	47
108	Current-induced torques in structures with ultrathin IrMn antiferromagnets. Physical Review B, 2015, 92, .	1.1	46

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109	Systematic Study of Mn-Doping Trends in Optical Properties of (Ga,Mn)As. Physical Review Letters, 2010, 105, 227201.	2.9	45
110	One-component to two-component transition of the $\nu=2/3$ fractional quantum Hall effect in a wide quantum well induced by an in-plane magnetic field. Physical Review B, 1997, 56, R7092-R7095.	1.1	43
111	Prospect for Antiferromagnetic Spintronics. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	43
112	Mn-doped Ga(As,P) and (Al,Ga)As ferromagnetic semiconductors: Electronic structure calculations. Physical Review B, 2007, 75, .	1.1	41
113	Giant and Tunneling Magnetoresistance in Unconventional Collinear Antiferromagnets with Nonrelativistic Spin-Momentum Coupling. Physical Review X, 2022, 12, .	2.8	41
114	Plasmon mass and Drude weight in strongly spin-orbit-coupled two-dimensional electron gases. Physical Review B, 2011, 83, .	1.1	39
115	Infrared magneto-optical properties of (III,Mn)V ferromagnetic semiconductors. Physical Review B, 2003, 67, .	1.1	37
116	Absence of Skew Scattering in Two-Dimensional Systems: Testing the Origins of the Anomalous Hall Effect. Physical Review Letters, 2007, 99, 066604.	2.9	37
117	Microscopic Analysis of the Valence Band and Impurity Band Theories of (Ga,Mn)As. Physical Review Letters, 2010, 105, 227202.	2.9	36
118	Complementary spin-Hall and inverse spin-galvanic effect torques in a ferromagnet/semiconductor bilayer. Nature Communications, 2015, 6, 6730.	5.8	36
119	Resistance oscillation in wide single quantum wells subject to in-plane magnetic fields. Physical Review B, 1997, 56, 1029-1032.	1.1	35
120	High Curie temperatures at low compensation in the ferromagnetic semiconductor (Ga,Mn)As. Physical Review B, 2013, 87, .	1.1	34
121	Systematic study of magnetic linear dichroism and birefringence in (Ga,Mn)As. Physical Review B, 2014, 89, .	1.1	34
122	Cyclotron effective mass of a two-dimensional electron layer at the GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As heterojunction subject to in-plane magnetic fields. Physical Review B, 1995, 51, 18011-18014.	1.1	32
123	Narrow-band tunable terahertz detector in antiferromagnets via staggered-field and antidamping torques. Physical Review B, 2018, 98, .	1.1	32
124	Coherent control of magnetization precession in ferromagnetic semiconductor (Ga,Mn)As. Applied Physics Letters, 2008, 93, .	1.5	31
125	Direct measurement of the three-dimensional magnetization vector trajectory in GaMnAs by a magneto-optical pump-and-probe method. Applied Physics Letters, 2012, 100, .	1.5	31
126	Quenching of an antiferromagnet into high resistivity states using electrical or ultrashort optical pulses. Nature Electronics, 2021, 4, 30-37.	13.1	31



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127	Reorientation of Anisotropy in a Square Well Quantum Hall Sample. Physical Review Letters, 2000, 85, 3257-3260.	2.9	30
128	Electronic Structure of Ferromagnetic Semiconductor $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{display}=\text{"inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \hat{a} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Ga} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{X} \langle \text{mml:mi} \rangle \text{by Subgap Magneto-optical Spectroscopy. Physical Review Letters, 2009, 103, 137201.$	2.9	30
129	Exchange bias in a ferromagnetic semiconductor induced by a ferromagnetic metal: Fe/(Ga,Mn)As bilayer films studied by XMCD measurements and SQUID magnetometry. Physical Review B, 2010, 81, .	1.1	30
130	Aharonov-Casher and spin Hall effects in mesoscopic ring structures with strong spin-orbit interaction. Physical Review B, 2008, 78, .	1.1	28
131	Spin flop and crystalline anisotropic magnetoresistance in CuMnAs. Physical Review B, 2020, 101, .	1.1	27
132	Non-Drude optical conductivity of (III,Mn)V ferromagnetic semiconductors. Physical Review B, 2003, 67, .	1.1	26
133	Optical properties of metallic (III, Mn)V ferromagnetic semiconductors in the infrared to visible range. Physical Review B, 2004, 70, .	1.1	26
134	Magneto-Seebeck microscopy of domain switching in collinear antiferromagnet CuMnAs. Physical Review Materials, 2020, 4, .	0.9	25
135	Domain Walls in the $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{display}=\text{"inline"} \rangle \langle \text{mml:mo} \text{stretchy}=\text{"false"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Ga} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Mn} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \text{Tj EQ1 1 0.784314} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{Physical Review Letters, 2008, 100, 047202.$	1.1	23
136	Ferromagnetic transition temperature enhancement in (Ga,Mn)As semiconductors by carbon codoping. Physical Review B, 2003, 68, .	1.1	23
137	Low-voltage control of ferromagnetism in a semiconductor p-n junction. New Journal of Physics, 2009, 11, 023008.	1.2	23
138	Detection of stacking faults breaking the $[110]/[110]$ symmetry in ferromagnetic semiconductors (Ga,Mn)As and (Ga,Mn)(As,P). Physical Review B, 2011, 83, .	1.1	23
139	Detection of Electrically Modulated Inverse Spin Hall Effect in an $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{display}=\text{"inline"} \rangle \langle \text{mml:mi} \rangle \text{Fe} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{GaAs} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{Microdevice. Physical Review Letters, 2012, 109, 076601.$	2.9	23
140	Aharonov-Casher effect in a two-dimensional hole ring with spin-orbit interaction. Physical Review B, 2007, 76, .	1.1	22
141	Inertial displacement of a domain wall excited by ultra-short circularly polarized laser pulses. Nature Communications, 2017, 8, 15226.	5.8	22
142	Band structure of CuMnAs probed by optical and photoemission spectroscopy. Physical Review B, 2018, 97, .	1.1	22
143	Orbital effect of an in-plane magnetic field on quantum transport in chaotic lateral dots. Physical Review B, 2002, 65, .	1.1	21
144	Orbital effects of in-plane magnetic fields probed by mesoscopic conductance fluctuations. Physical Review B, 2004, 69, .	1.1	21

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145	Large magnetic anisotropy and tunneling anisotropic magnetoresistance in layered bimetallic nanostructures: Case study of Mn/W(001). <i>Physical Review B</i> , 2008, 78, .	1.1	21
146	(Ga,Mn)As based superlattices and the search for antiferromagnetic interlayer coupling. <i>Physical Review B</i> , 2008, 78, .	1.1	21
147	Capacitance of gated GaAs/AlxGa1-xAs heterostructures subject to in-plane magnetic fields. <i>Physical Review B</i> , 1995, 51, 10181-10184.	1.1	20
148	The single-layer/bilayer transition of electron systems in AlGaAs/GaAs/AlGaAs quantum wells subject to in-plane magnetic fields. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 3721-3732.	0.7	20
149	Skyrmion dynamics and NMR line shapes in quantum Hall ferromagnets. <i>Physical Review B</i> , 2000, 61, 2749-2754.	1.1	20
150	Toward a low-voltage multiferroic transistor: Magnetic (Ga,Mn)As under ferroelectric control. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	20
151	Isothermal anisotropic magnetoresistance in antiferromagnetic metallic IrMn. <i>Scientific Reports</i> , 2016, 6, 35471.	1.6	20
152	Frequency-independent Terahertz Anomalous Hall Effect in DyCo <sub>5</sub> , Co <sub>32</sub> Fe <sub>68</sub> , and Gd <sub>27</sub> Fe <sub>73</sub> Thin Films from DC to 40 THz. <i>Advanced Materials</i> , 2021, 33, e2007398.	11.1	20
153	Magnetoresistance and electronic structure of asymmetric GaAs/Al <sub>0.3</sub> Ga <sub>0.7</sub> As double quantum wells in an in-plane or tilted magnetic field. <i>Physical Review B</i> , 2000, 62, 10908-10913.	1.1	19
154	Mn incorporation in as-grown and annealed (Ga,Mn)As layers studied by x-ray diffraction and standing-wave fluorescence. <i>Physical Review B</i> , 2006, 74, .	1.1	19
155	Tunneling anisotropic magnetoresistance: Creating a spin-valve-like signal using a single ferromagnetic semiconductor layer. <i>Journal of Applied Physics</i> , 2005, 97, 10C506.	1.1	18
156	The origin and control of the sources of AMR in (Ga,Mn)As devices. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1001-1008.	1.0	18
157	Investigation of magneto-structural phase transition in FeRh by reflectivity and transmittance measurements in visible and near-infrared spectral region. <i>New Journal of Physics</i> , 2016, 18, 083017.	1.2	18
158	Self-consistent electron subbands of GaAs/AlGaAs heterostructures in magnetic fields parallel to the interface. <i>Journal of Physics Condensed Matter</i> , 1993, 5, L217-L222.	0.7	17
159	Surprises from the spin Hall effect. <i>Physics Today</i> , 2017, 70, 38-42.	0.3	17
160	Hole-hole correlation effects on magnetic properties of Mn <sup>III</sup> xV diluted magnetic semiconductors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 10, 153-156.	1.3	16
161	Theory of weak localization in ferromagnetic (Ga,Mn)As. <i>Physical Review B</i> , 2009, 79, .	1.1	16
162	Obtaining the structure factors for an epitaxial film using Cu X-ray radiation. <i>Journal of Applied Crystallography</i> , 2013, 46, 1749-1754.	1.9	16

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163	Different types of spin currents in the comprehensive materials database of nonmagnetic spin Hall effect. Npj Computational Materials, 2021, 7, .	3.5	16
164	Microscopic mechanism of the noncrystalline anisotropic magnetoresistance in (Ga,Mn)As. Physical Review B, 2009, 80, .	1.1	15
165	Correlations, compressibility, and capacitance in double-quantum-well systems in the quantum Hall regime. Physical Review B, 1996, 53, 9943-9951.	1.1	14
166	Field-effect magnetization reversal in ferromagnetic semiconductor quantum wells. Physical Review B, 2002, 65, .	1.1	14
167	Ferroelectric polymer gates for non-volatile field effect control of ferromagnetism in (Ga, Mn)As layers. Nanotechnology, 2011, 22, 254004.	1.3	14
168	Spin gating electrical current. Applied Physics Letters, 2012, 101, .	1.5	14
169	Molecular beam epitaxy of CuMnAs. Physical Review Materials, 2020, 4, .	0.9	14
170	Strain control of magnetic anisotropy in (Ga,Mn)As microbars. Physical Review B, 2011, 83, .	1.1	13
171	Long-range and high-speed electronic spin-transport at a GaAs/AlGaAs semiconductor interface. Scientific Reports, 2016, 6, 22901.	1.6	13
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