

Stuart Parkin

List of Publications by Year in descending order

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620
papers

59,973
citations

1697

104
h-index

1185

228
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648
all docs

648
docs citations

648
times ranked

26321
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Domain-Wall Racetrack Memory. <i>Science</i> , 2008, 320, 190-194.	6.0	3,839
2	Giant tunnelling magnetoresistance at room temperature with MgO (100) tunnel barriers. <i>Nature Materials</i> , 2004, 3, 862-867.	13.3	2,820
3	Oscillations in exchange coupling and magnetoresistance in metallic superlattice structures: Co/Ru, Co/Cr, and Fe/Cr. <i>Physical Review Letters</i> , 1990, 64, 2304-2307.	2.9	2,590
4	Simple rules for the understanding of Heusler compounds. <i>Progress in Solid State Chemistry</i> , 2011, 39, 1-50.	3.9	1,742
5	Giant magnetoresistive in soft ferromagnetic multilayers. <i>Physical Review B</i> , 1991, 43, 1297-1300.	1.1	1,718
6	Oscillatory magnetic exchange coupling through thin copper layers. <i>Physical Review Letters</i> , 1991, 66, 2152-2155.	2.9	1,302
7	Exchange-biased magnetic tunnel junctions and application to nonvolatile magnetic random access memory (invited). <i>Journal of Applied Physics</i> , 1999, 85, 5828-5833.	1.1	1,089
8	Higher-order topological insulators. <i>Science Advances</i> , 2018, 4, eaat0346.	4.7	1,066
9	Chiral spin torque at magnetic domain walls. <i>Nature Nanotechnology</i> , 2013, 8, 527-533.	15.6	1,029
10	Systematic variation of the strength and oscillation period of indirect magnetic exchange coupling through the 3d, 4d, and 5d transition metals. <i>Physical Review Letters</i> , 1991, 67, 3598-3601.	2.9	1,016
11	Suppression of Metal-Insulator Transition in VO ₂ by Electric Field-Induced Oxygen Vacancy Formation. <i>Science</i> , 2013, 339, 1402-1405.	6.0	924
12	Anomalous Disappearance of High-T _c Superconductivity at High Hole Concentration in Metallic La _{2-x} Sr _x CuO ₄ . <i>Physical Review Letters</i> , 1988, 61, 1127-1130.	2.9	875
13	Memory on the racetrack. <i>Nature Nanotechnology</i> , 2015, 10, 195-198.	15.6	644
14	Current-Controlled Magnetic Domain-Wall Nanowire Shift Register. <i>Science</i> , 2008, 320, 209-211.	6.0	620
15	Superconductivity in Weyl semimetal candidate MoTe ₂ . <i>Nature Communications</i> , 2016, 7, 11038.	5.8	611
16	Dirac cone protected by non-symmorphic symmetry and three-dimensional Dirac line node in ZrSiS. <i>Nature Communications</i> , 2016, 7, 11696.	5.8	591
17	Giant magnetoresistance in antiferromagnetic Co/Cu multilayers. <i>Applied Physics Letters</i> , 1991, 58, 2710-2712.	1.5	582
18	Large anomalous Hall effect driven by a nonvanishing Berry curvature in the noncolinear antiferromagnet Mn ₃ Ge. <i>Science Advances</i> , 2016, 2, e1501870.	4.7	561

#	ARTICLE	IF	CITATIONS
19	Magnetotransport properties of magnetically soft spin-valve structures (invited). <i>Journal of Applied Physics</i> , 1991, 69, 4774-4779.	1.1	553
20	Domain-wall velocities of up to $750 \times 10^3 \text{ m s}^{-1}$ driven by exchange-coupling torque in synthetic antiferromagnets. <i>Nature Nanotechnology</i> , 2015, 10, 221-226.	15.6	548
21	Magnetically engineered spintronic sensors and memory. <i>Proceedings of the IEEE</i> , 2003, 91, 661-680.	16.4	537
22	Spintronics. <i>Annual Review of Condensed Matter Physics</i> , 2010, 1, 71-88.	5.2	527
23	Magnetic Weyl semimetal phase in a Kagomé crystal. <i>Science</i> , 2019, 365, 1282-1285.	6.0	518
24	Magnetic antiskyrmions above room temperature in tetragonal Heusler materials. <i>Nature</i> , 2017, 548, 561-566.	13.7	513
25	Quenching of Magnetoresistance by Hot Electrons in Magnetic Tunnel Junctions. <i>Physical Review Letters</i> , 1997, 79, 3744-3747.	2.9	511
26	Bulk Superconductivity at 125 K in $\text{Tl}_2\text{Ca}_2\text{Ba}_2\text{Cu}_3\text{O}_x$. <i>Physical Review Letters</i> , 1988, 60, 2539-2542.	2.9	484
27	Role of transparency of platinum-ferromagnet interfaces in determining the intrinsic magnitude of the spin Hall effect. <i>Nature Physics</i> , 2015, 11, 496-502.	6.5	465
28	Surface, interface, and thin-film magnetism. <i>Journal of Materials Research</i> , 1990, 5, 1299-1340.	1.2	455
29	Microstructured magnetic tunnel junctions (invited). <i>Journal of Applied Physics</i> , 1997, 81, 3741-3746.	1.1	451
30	Control of the metal-insulator transition in vanadium dioxide by modifying orbital occupancy. <i>Nature Physics</i> , 2013, 9, 661-666.	6.5	448
31	$\text{TlCa}_{n-1}\text{Ba}_2\text{Cu}_n\text{O}_{2n+3}$ ($n=1,2,3$): A New Class of Crystal Structures Exhibiting Volume Superconductivity at up to ~ 110 K. <i>Physical Review Letters</i> , 1988, 61, 750-753.	2.9	414
32	Highly Spin-Polarized Room-Temperature Tunnel Injector for Semiconductor Spintronics using $\text{MgO}(100)$. <i>Physical Review Letters</i> , 2005, 94, 056601.	2.9	401
33	Oscillatory dependence of current-driven magnetic domain wall motion on current pulse length. <i>Nature</i> , 2006, 443, 197-200.	13.7	395
34	Origin of enhanced magnetoresistance of magnetic multilayers: Spin-dependent scattering from magnetic interface states. <i>Physical Review Letters</i> , 1993, 71, 1641-1644.	2.9	361
35	Signature of type-II Weyl semimetal phase in MoTe_2 . <i>Nature Communications</i> , 2017, 8, 13973.	5.8	358
36	Properties that change as superconductivity disappears at high-doping concentrations in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physical Review B</i> , 1989, 40, 8872-8877.	1.1	340

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37	Dependence of Current and Field Driven Depinning of Domain Walls on Their Structure and Chirality in Permalloy Nanowires. <i>Physical Review Letters</i> , 2006, 97, 207205.	2.9	339
38	Superconductivity in a New Family of Organic Conductors. <i>Physical Review Letters</i> , 1983, 50, 270-273.	2.9	315
39	Giant, unconventional anomalous Hall effect in the metallic frustrated magnet candidate, KV_3Sb_5 . <i>Science Advances</i> , 2020, 6, eabb6003.	4.7	295
40	Oxygen ordering, phase separation and the 60-K and 90-K plateaus in $YBa_2Cu_3O_x$. <i>Nature</i> , 1989, 340, 619-621.	13.7	293
41	Direct observation of the coherent precession of magnetic domain walls propagating along permalloy nanowires. <i>Nature Physics</i> , 2007, 3, 21-25.	6.5	285
42	Separation of enantiomers by their enantiospecific interaction with achiral magnetic substrates. <i>Science</i> , 2018, 360, 1331-1334.	6.0	283
43	Synthetic antiferromagnetic spintronics. <i>Nature Physics</i> , 2018, 14, 217-219.	6.5	280
44	Topological Weyl semimetals in the chiral antiferromagnetic materials Mn_3Ge and Mn_3Sn . <i>New Journal of Physics</i> , 2017, 19, 015008.	1.2	277
45	Influence of Current on Field-Driven Domain Wall Motion in Permalloy Nanowires from Time Resolved Measurements of Anisotropic Magnetoresistance. <i>Physical Review Letters</i> , 2006, 96, 197207.	2.9	275
46	Minimum Field Strength in Precessional Magnetization Reversal. <i>Science</i> , 1999, 285, 864-867.	6.0	272
47	Perpendicular Exchange Bias of Co/Pt Multilayers. <i>Physical Review Letters</i> , 2001, 87, 087202.	2.9	271
48	Enhanced spin-orbit torques by oxygen incorporation in tungsten films. <i>Nature Communications</i> , 2016, 7, 10644.	5.8	266
49	Development of the magnetic tunnel junction MRAM at IBM: From first junctions to a 16-Mb MRAM demonstrator chip. <i>IBM Journal of Research and Development</i> , 2006, 50, 5-23.	3.2	263
50	Evidence for superconductivity in La_2CuO_4 . <i>Physical Review Letters</i> , 1987, 58, 2482-2485.	2.9	259
51	Model family of high-temperature superconductors: $Tl_mCa_{n-1}Ba_2Cu_nO_{2(n+1)+m}$ ($m=1,2;n=1,2,3$). <i>Physical Review B</i> , 1988, 38, 6531-6537.	1.1	246
52	The 2020 skyrmionics roadmap. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 363001.	1.3	245
53	Current Driven Domain Wall Velocities Exceeding the Spin Angular Momentum Transfer Rate in Permalloy Nanowires. <i>Physical Review Letters</i> , 2007, 98, 037204.	2.9	240
54	Design Scheme of New Tetragonal Heusler Compounds for Spin Transfer Torque Applications and its Experimental Realization. <i>Advanced Materials</i> , 2012, 24, 6283-6287.	11.1	226

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55	Negative Domain Wall Contribution to the Resistivity of Microfabricated Fe Wires. <i>Physical Review Letters</i> , 1998, 80, 5639-5642.	2.9	224
56	Superconductivity above 90 K in the compound $\text{YBa}_2\text{Cu}_3\text{O}_x$: Structural, transport, and magnetic properties. <i>Physical Review B</i> , 1987, 35, 7242-7244.	1.1	216
57	Spin engineering: Direct determination of the Ruderman-Kittel-Kasuya-Yosida far-field range function in ruthenium. <i>Physical Review B</i> , 1991, 44, 7131-7134.	1.1	213
58	Oscillations in giant magnetoresistance and antiferromagnetic coupling in $[\text{Ni}_{81}\text{Fe}_{19}/\text{Cu}]_n$ multilayers. <i>Applied Physics Letters</i> , 1992, 60, 512-514.	1.5	213
59	Magnetic domain wall motion triggered by an electric current. <i>Applied Physics Letters</i> , 2003, 83, 2617-2619.	1.5	213
60	d -transition-metal intercalates of the niobium and tantalum dichalcogenides. I. Magnetic properties. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1980, 41, 65-93.	0.6	211
61	Induced spin polarization in Cu spacer layers in Co/Cu multilayers. <i>Physical Review Letters</i> , 1994, 72, 1112-1115.	2.9	211
62	Chiral spin torque arising from proximity-induced magnetization. <i>Nature Communications</i> , 2014, 5, 3910.	5.8	203
63	Giant Magnetoresistance in Magnetic Nanostructures. <i>Annual Review of Materials Research</i> , 1995, 25, 357-388.	5.5	201
64	Magnetization Reversal in Micron-Sized Magnetic Thin Films. <i>Physical Review Letters</i> , 1998, 81, 4512-4515.	2.9	197
65	Spin polarization of tunneling current from ferromagnet/ Al_2O_3 interfaces using copper-doped aluminum superconducting films. <i>Applied Physics Letters</i> , 2000, 77, 720-722.	1.5	197
66	Dynamics of Magnetic Domain Walls Under Their Own Inertia. <i>Science</i> , 2010, 330, 1810-1813.	6.0	192
67	Chiral spintronics. <i>Nature Reviews Physics</i> , 2021, 3, 328-343.	11.9	191
68	Research frontiers in magnetic materials at soft X-ray synchrotron radiation facilities. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 207, 7-44.	1.0	190
69	Giant facet-dependent spin-orbit torque and spin Hall conductivity in the triangular antiferromagnet IrMn_3 . <i>Science Advances</i> , 2016, 2, e1600759.	4.7	188
70	Butterfly magnetoresistance, quasi-2D Dirac Fermi surface and topological phase transition in ZrSiS . <i>Science Advances</i> , 2016, 2, e1601742.	4.7	182
71	Basics and prospective of magnetic Heusler compounds. <i>APL Materials</i> , 2015, 3, 041518.	2.2	177
72	Spin-valve effect in soft ferromagnetic sandwiches. <i>Journal of Magnetism and Magnetic Materials</i> , 1991, 93, 101-104.	1.0	174

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73	Weyl Semimetals as Hydrogen Evolution Catalysts. <i>Advanced Materials</i> , 2017, 29, 1606202.	11.1	169
74	Heusler Compounds—A Material Class With Exceptional Properties. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 367-373.	1.2	167
75	Dramatic enhancement of interlayer exchange coupling and giant magnetoresistance in Ni ₈₁ Fe ₁₉ /Cu multilayers by addition of thin Co interface layers. <i>Applied Physics Letters</i> , 1992, 61, 1358-1360.	1.5	166
76	Metallic, but Not Superconducting, La-Ba (and La-Sr) Copper Oxides. <i>Physical Review Letters</i> , 1988, 60, 542-545.	2.9	156
77	Observation of Edge Transport in the Disordered Regime of Topologically Insulating InAs Quantum Wells. <i>Physical Review Letters</i> , 2014, 112, 026602.	2.9	151
78	The Magnetic Genome of Two-Dimensional van der Waals Materials. <i>ACS Nano</i> , 2022, 16, 6960-7079.	7.3	149
79	Symmetry demanded topological nodal-line materials. <i>Advances in Physics: X</i> , 2018, 3, 1414631.	1.5	146
80	Relaxation-coupling in magnetic tunneling junction devices. <i>Applied Physics Letters</i> , 2000, 77, 2373-2375.	1.5	145
81	Superconductivity above liquid nitrogen temperature: preparation and properties of a family of perovskite-based superconductors. <i>Journal of the American Chemical Society</i> , 1987, 109, 2848-2849.	6.6	142
82	Resonant Amplification of Magnetic Domain-Wall Motion by a Train of Current Pulses. <i>Science</i> , 2007, 315, 1553-1556.	6.0	136
83	Microscopic Manipulation of Ferroelectric Domains in SnSe Monolayers at Room Temperature. <i>Nano Letters</i> , 2020, 20, 6590-6597.	4.5	136
84	Multiple Dirac cones at the surface of the topological metal LaBi. <i>Nature Communications</i> , 2017, 8, 13942.	5.8	135
85	Origin of the Tetragonal Ground State of Heusler Compounds. <i>Physical Review Applied</i> , 2017, 7, .	1.5	134
86	Thermally Assisted Magnetization Reversal in Submicron-Sized Magnetic Thin Films. <i>Physical Review Letters</i> , 2000, 84, 5419-5422.	2.9	132
87	Heusler 4.0: Tunable Materials. <i>Annual Review of Materials Research</i> , 2017, 47, 247-270.	4.3	132
88	Low-Frequency Magnetic Noise in Micron-Scale Magnetic Tunnel Junctions. <i>Physical Review Letters</i> , 2000, 85, 3289-3292.	2.9	131
89	The field-free Josephson diode in a van der Waals heterostructure. <i>Nature</i> , 2022, 604, 653-656.	13.7	131
90	Shape-anisotropy-controlled magnetoresistive response in magnetic tunnel junctions. <i>Applied Physics Letters</i> , 1997, 70, 2610-2612.	1.5	128

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91	The Magnetic Stability of Spin-Dependent Tunneling Devices. , 1998, 281, 797-799.		126
92	Anomalous Hall effect in Weyl semimetal half-Heusler compounds RPtBi (R = Gd and Nd). Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9140-9144.	3.3	126
93	Domain wall resistivity in epitaxial thin film microstructures. Journal of Physics Condensed Matter, 2001, 13, R461-R488.	0.7	124
94	Superconducting Tl ₂ Ca ₂ Ba ₂ Cu ₃ O thin films with zero resistance at temperatures of up to 120 K. Applied Physics Letters, 1988, 53, 329-331.	1.5	123
95	Experimental Investigation of Temperature-Dependent Gilbert Damping in Permalloy Thin Films. Scientific Reports, 2016, 6, 22890.	1.6	120
96	Surface states in bulk single crystal of topological semimetal Co ₃ Sn ₂ S ₂ toward water oxidation. Science Advances, 2019, 5, eaaw9867.	4.7	118
97	Enhanced interface perpendicular magnetic anisotropy in Ta CoFeB MgO using nitrogen doped Ta underlayers. Applied Physics Letters, 2013, 102, .	1.5	117
98	Intrinsic 2D-XY ferromagnetism in a van der Waals monolayer. Science, 2021, 374, 616-620.	6.0	116
99	Lattice strain-enhanced exsolution of nanoparticles in thin films. Nature Communications, 2019, 10, 1471.	5.8	114
100	Electrical noise in hysteretic ferromagnet-insulator-ferromagnet tunnel junctions. Applied Physics Letters, 1999, 74, 600-602.	1.5	112
101	Domain wall trajectory determined by its fractional topological edge defects. Nature Physics, 2013, 9, 505-511.	6.5	112
102	Carbon-tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. Advanced Energy Materials, 2018, 8, 1801258.	10.2	111
103	Room temperature operation of a high output current magnetic tunnel transistor. Applied Physics Letters, 2002, 80, 3364-3366.	1.5	109
104	Studies of coupled metallic magnetic thin-film trilayers. Journal of Applied Physics, 1998, 84, 958-972.	1.1	107
105	Probing vortex-core dynamics using current-induced resonant excitation of a trapped domain wall. Nature Physics, 2008, 4, 368-372.	6.5	105
106	Crystallography and microstructure of Tl ₂ Ca ₂ Ba ₂ Cu ₃ O superconducting oxides. Applied Physics Letters, 1988, 53, 432-434.	1.5	104
107	Magnetic disorder in the exchange bias bilayered FeNi-FeMn system. Journal of Magnetism and Magnetic Materials, 1986, 54-57, 801-802.	1.0	103
108	Extremely long quasiparticle spin lifetimes in superconducting aluminium using MgO tunnel spin injectors. Nature Materials, 2010, 9, 586-593.	13.3	102

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109	3d transition-metal intercalates of the niobium and tantalum dichalcogenides. II. Transport properties. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1980, 41, 95-112.	0.6	101
110	Ferromagnetic resonance studies of exchange-biased Permalloy thin films. Physical Review B, 1988, 38, 6847-6854.	1.1	101
111	Mn _x Pt _{1-x} : A new exchange bias material for Permalloy. Journal of Applied Physics, 1997, 81, 4986-4988.	1.1	101
112	Spin-torque switching efficiency in CoFeB-MgO based tunnel junctions. Physical Review B, 2013, 88, .	1.1	100
113	Low-energy electron-diffraction crystallographic determination for the Cu(110)2Å–1-O surface structure. Physical Review B, 1990, 41, 5432-5435.	1.1	99
114	Giant magnetoresistance and enhanced antiferromagnetic coupling in highly oriented Co/Cu (111) superlattices. Physical Review B, 1992, 46, 9262-9265.	1.1	99
115	Fluctuation-dissipation relation for giant magnetoresistive 1/fnoise. Physical Review B, 1993, 48, 16156-16159.	1.1	99
116	Bias Voltage Dependence of Tunneling Anisotropic Magnetoresistance in Magnetic Tunnel Junctions with MgO and Al ₂ O ₃ Tunnel Barriers. Physical Review Letters, 2007, 99, 226602.	2.9	98
117	Optical Detection of Hot-Electron Spin Injection into GaAs from a Magnetic Tunnel Transistor Source. Physical Review Letters, 2003, 90, 256603.	2.9	97
118	Field Cooling Induced Changes in the Antiferromagnetic Structure of NiO Films. Physical Review Letters, 2001, 86, 5389-5392.	2.9	95
119	Towards quantitative electron holography of magnetic thin films using in situ magnetization reversal. Ultramicroscopy, 1998, 74, 61-73.	0.8	93
120	Current Induced Tilting of Domain Walls in High Velocity Motion along Perpendicularly Magnetized Micron-Sized Co/Ni/Co Racetracks. Applied Physics Express, 2012, 5, 093006.	1.1	93
121	Elliptical Bloch skyrmion chiral twins in an antiskyrmion system. Nature Communications, 2020, 11, 1115.	5.8	92
122	Magnetoresistance, micromagnetism, and domain-wall scattering in epitaxial hcp Co films. Physical Review B, 1999, 59, 11914-11918.	1.1	91
123	Giant reversible, facet-dependent, structural changes in a correlated-electron insulator induced by ionic liquid gating. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1013-1018.	3.3	89
124	Enhanced Spontaneous Polarization in Ultrathin SnTe Films with Layered Antipolar Structure. Advanced Materials, 2019, 31, e1804428.	11.1	88
125	Epitaxial growth of Pt on basal-plane sapphire: a seed film for artificially layered magnetic metal structures. Journal of Crystal Growth, 1993, 133, 47-58.	0.7	87
126	Suppression of Ionic Liquid Gate-Induced Metallization of SrTiO ₃ (001) by Oxygen. Nano Letters, 2013, 13, 4675-4678.	4.5	87

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127	<i>Colloquium</i> : Physical properties of group-IV monochalcogenide monolayers. Reviews of Modern Physics, 2021, 93, .	16.4	87
128	Domain-Wall Induced Coupling between Ferromagnetic Layers. Physical Review Letters, 2000, 84, 1816-1819.	2.9	86
129	Superconductivity in the family of organic salts based on the tetramethyltetraselenafulvalene (TMTSF) molecule: (TMTSF) ₂ X (X=ClO ₄ , PF ₆ , AsF ₆ , SbF ₆ , TaF ₆). Journal of Physics C: Solid State Physics, 1981, 14, 5305-5326.	1.5	85
130	All topological bands of all nonmagnetic stoichiometric materials. Science, 2022, 376, eabg9094.	6.0	84
131	On the exchange biasing through a nonmagnetic spacer layer. Journal of Applied Physics, 2000, 87, 5061-5063.	1.1	83
132	Spin-dependent hot electron transport in Ni ₈₁ Fe ₁₉ and Co ₈₄ Fe ₁₆ films on GaAs(001). Physical Review B, 2002, 66, .	1.1	83
133	Temperature independence of the spin-injection efficiency of a MgO-based tunnel spin injector. Applied Physics Letters, 2005, 87, 262503.	1.5	83
134	THz-Driven Ultrafast Spin-Lattice Scattering in Amorphous Metallic Ferromagnets. Physical Review Letters, 2016, 117, 087205.	2.9	83
135	Bias voltage and temperature dependence of magnetotunneling effect. Journal of Applied Physics, 1998, 83, 6515-6517.	1.1	80
136	Finite Tunneling Spin Polarization at the Compensation Point of Rare-Earth-Metal-Transition-Metal Alloys. Physical Review Letters, 2005, 95, 047202.	2.9	80
137	Subnanosecond incubation times for electric-field-induced metallization of a correlated electron oxide. Nature Nanotechnology, 2014, 9, 453-458.	15.6	80
138	Structural and electronic properties of epitaxial multilayer h-BN on Ni(111) for spintronics applications. Scientific Reports, 2016, 6, 23547.	1.6	80
139	Determination of the Structure of [Os(.eta. ² -H ₂) _{en} 2CH ₃ CO ₂]PF ₆ by X-ray and Neutron Diffraction. Journal of the American Chemical Society, 1994, 116, 4352-4356.	6.6	79
140	Disappearance of high temperature superconductivity induced by high carrier concentrations. Physica C: Superconductivity and Its Applications, 1989, 162-164, 291-295.	0.6	78
141	Antiferromagnetic interlayer exchange coupling in sputtered Fe/Cr multilayers: Dependence on number of Fe layers. Applied Physics Letters, 1991, 58, 1473-1475.	1.5	78
142	Giant magnetoresistance and Co-cluster structure in phase-separated Co-Cu granular alloys. Physical Review B, 1993, 48, 16810-16813.	1.1	78
143	Exchange coupling torque in ferrimagnetic Co/Gd bilayer maximized near angular momentum compensation temperature. Nature Communications, 2018, 9, 4984.	5.8	78
144	Giant magnetocurrent exceeding 3400% in magnetic tunnel transistors with spin-valve base layers. Applied Physics Letters, 2003, 83, 951-953.	1.5	76

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145	A charge-density-wave topological semimetal. <i>Nature Physics</i> , 2021, 17, 381-387.	6.5	76
146	Magnetic-field-induced transition and quantum oscillations in tetramethyltetraselenafulvalenium perchlorate, (TMTSF) ₂ ReO ₄ . <i>Physical Review Letters</i> , 1986, 56, 667-670.	2.9	75
147	Temperature and bias dependence of magnetoresistance in doped manganite thin film trilayer junctions. <i>Applied Physics Letters</i> , 1998, 73, 1008-1010.	1.5	75
148	Prediction of Triple Point Fermions in Simple Half-Heusler Topological Insulators. <i>Physical Review Letters</i> , 2017, 119, 136401.	2.9	75
149	Temperature Dependence of Current-Induced Magnetization Switching in Spin Valves with a Ferrimagnetic CoGd Free Layer. <i>Physical Review Letters</i> , 2006, 97, 217202.	2.9	73
150	Correlation-Driven Insulator-Metal Transition in Near-Ideal Vanadium Dioxide Films. <i>Physical Review Letters</i> , 2016, 116, 116403.	2.9	72
151	Termination layer compensated tunnelling magnetoresistance in ferrimagnetic Heusler compounds with high perpendicular magnetic anisotropy. <i>Nature Communications</i> , 2016, 7, 10276.	5.8	72
152	Magnetic Racetrack Memory: From Physics to the Cusp of Applications Within a Decade. <i>Proceedings of the IEEE</i> , 2020, 108, 1303-1321.	16.4	72
153	Biquadratic Exchange Coupling in Sputtered (100) Fe/Cr/Fe. <i>Physical Review Letters</i> , 1996, 76, 4837-4840.	2.9	71
154	Aerosol flow reactor production of fine Y1Ba2Cu3O7 powder: Fabrication of superconducting ceramics. <i>Applied Physics Letters</i> , 1988, 52, 1622-1624.	1.5	70
155	Electrical writing, deleting, reading, and moving of magnetic skyrmioniums in a racetrack device. <i>Scientific Reports</i> , 2019, 9, 12119.	1.6	70
156	Observation of the intrinsic Gilbert damping constant in Co/Ni multilayers independent of the stack number with perpendicular anisotropy. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	69
157	Field-dependent thermoelectric power and thermal conductivity in multilayered and granular giant magnetoresistive systems. <i>Physical Review B</i> , 1996, 54, 15273-15283.	1.1	68
158	Off-axis electron holography of patterned magnetic nanostructures. <i>Journal of Microscopy</i> , 2000, 200, 187-205.	0.8	68
159	Memories of tomorrow. <i>IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems</i> , 2002, 18, 17-27.	0.8	68
160	Racetrack memory cell array with integrated magnetic tunnel junction readout. , 2011, , .		68
161	Anomalous and topological Hall effects in epitaxial thin films of the noncollinear antiferromagnet Mn_3Z (Z=Ga, Sn and Ge) Heusler compounds. <i>Physical Review B</i> , 2020, 101, .	1.1	68
162	First-principles study of the structural stability of cubic, tetragonal and hexagonal phases in Mn_3Z (Z=Ga, Sn and Ge) Heusler compounds. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 206006.	0.7	67

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163	Magnetoresistance, micromagnetism, and domain wall effects in epitaxial Fe and Co structures with stripe domains (invited). <i>Journal of Applied Physics</i> , 1999, 85, 5243-5248.	1.1	66
164	Enhanced stochasticity of domain wall motion in magnetic racetracks due to dynamic pinning. <i>Nature Communications</i> , 2010, 1, 25.	5.8	66
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