

S BlÃ¼gel

List of Publications by Year in descending order

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568
papers

32,034
citations

4641

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588
docs citations

588
times ranked

19902
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous atomic-scale magnetic skyrmion lattice in two dimensions. <i>Nature Physics</i> , 2011, 7, 713-718.	6.5	1,521
2	Reproducibility in density functional theory calculations of solids. <i>Science</i> , 2016, 351, aad3000.	6.0	1,113
3	Symmetry and magnitude of spin-orbit torques in ferromagnetic heterostructures. <i>Nature Nanotechnology</i> , 2013, 8, 587-593.	15.6	955
4	Chiral magnetic order at surfaces driven by inversion asymmetry. <i>Nature</i> , 2007, 447, 190-193.	13.7	823
5	Wannier90 as a community code: new features and applications. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 165902.	0.7	807
6	Strong Spin-Orbit Splitting on Bi Surfaces. <i>Physical Review Letters</i> , 2004, 93, 046403.	2.9	595
7	Ground States of Constrained Systems: Application to Cerium Impurities. <i>Physical Review Letters</i> , 1984, 53, 2512-2515.	2.9	552
8	Terahertz spin current pulses controlled by magnetic heterostructures. <i>Nature Nanotechnology</i> , 2013, 8, 256-260.	15.6	476
9	Strength of Effective Coulomb Interactions in Graphene and Graphite. <i>Physical Review Letters</i> , 2011, 106, 236805.	2.9	453
10	Dzyaloshinskii-Moriya interaction accounting for the orientation of magnetic domains in ultrathin films: Fe/W(110). <i>Physical Review B</i> , 2008, 78, .	1.1	434
11	Interface-engineered templates for molecular spin memory devices. <i>Nature</i> , 2013, 493, 509-513.	13.7	401
12	Hyperfine fields of 3d and 4d impurities in nickel. <i>Physical Review B</i> , 1987, 35, 3271-3283.	1.1	337
13	Real-Space Imaging of Two-Dimensional Antiferromagnetism on the Atomic Scale. <i>Science</i> , 2000, 288, 1805-1808.	6.0	334
14	Unravelling the interplay of local structure and physical properties in phase-change materials. <i>Nature Materials</i> , 2006, 5, 56-62.	13.3	300
15	Electrically Tunable Quantum Anomalous Hall Effect in Graphene Decorated by Mn Atoms. <i>Physical Review Letters</i> , 2012, 108, 056802.	2.9	286
16	Design of the Local Spin Polarization at the Organic-Ferromagnetic Interface. <i>Physical Review Letters</i> , 2010, 105, 066601.	2.9	284
17	Effective Coulomb interaction in transition metals from constrained random-phase approximation. <i>Physical Review B</i> , 2011, 83, .	1.1	272
18	Graphene on Ir(111): Physisorption with Chemical Modulation. <i>Physical Review Letters</i> , 2011, 107, 036101.	2.9	270

#	ARTICLE	IF	CITATIONS
19	Role of vacancies in metal-insulator transitions of crystalline phase-change materials. Nature Materials, 2012, 11, 952-956.	13.3	258
20	Spin- and Energy-Dependent Tunneling through a Single Molecule with Intramolecular Spatial Resolution. Physical Review Letters, 2010, 105, 047204.	2.9	257
21	Two-dimensional ferromagnetism of 3d, 4d, and 5d transition metal monolayers on noble metal (001) substrates. Physical Review Letters, 1992, 68, 851-854.	2.9	250
22	Interfacing 2D and 3D Topological Insulators: Bi(111) Bilayer on Te . Physical Review Letters, 2011, 107, 166801.	2.9	249
23	Experimental observation of chiral magnetic bobbers in B20-type FeGe. Nature Nanotechnology, 2018, 13, 451-455.	15.6	243
24	Theory of Hyperfine Interactions in Metals. Progress of Theoretical Physics Supplement, 1990, 101, 11-77.	0.2	241
25	Magnetic properties of 3d transition metal monolayers on metal substrates. Applied Physics A: Solids and Surfaces, 1989, 49, 547-562.	1.4	239
26	Atomic-Scale Spin Spiral with a Unique Rotational Sense: Mn Monolayer on W(001). Physical Review Letters, 2008, 101, 027201.	2.9	238
27	Ferromagnetism and antiferromagnetism of 3d-metal overlayers on metals. Physical Review Letters, 1988, 60, 1077-1080.	2.9	215
28	Strength and directionality of surface Ruderman-Kittel-Kasuya-Yosida interaction mapped on the atomic scale. Nature Physics, 2010, 6, 187-191.	6.5	207
29	Resolving Complex Atomic-Scale Spin Structures by Spin-Polarized Scanning Tunneling Microscopy. Physical Review Letters, 2001, 86, 4132-4135.	2.9	204
30	Atom-by-atom engineering and magnetometry of tailored nanomagnets. Nature Physics, 2012, 8, 497-503.	6.5	201
31	Ab initio treatment of noncollinear magnets with the full-potential linearized augmented plane wave method. Physical Review B, 2004, 69, .	1.1	194
32	First-principles investigation of structural and electronic properties of ultrathin Bi films. Physical Review B, 2008, 77, .	1.1	193
33	Efficient implementation of the G - W approximation within the all-electron FLAPW method. Physical Review B, 2010, 81, .	1.1	191
34	Magnetically driven buckling and stability of ordered surface alloys: $\text{Cu}(100)c(2\sqrt{2})\text{Mn}$. Physical Review Letters, 1993, 70, 3619-3622.	2.9	184
35	New Type of Stable Particlelike States in Chiral Magnets. Physical Review Letters, 2015, 115, 117201.	2.9	182
36	Femtosecond control of electric currents in metallic ferromagnetic heterostructures. Nature Nanotechnology, 2016, 11, 455-458.	15.6	182

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37	Antiskyrmions stabilized at interfaces by anisotropic Dzyaloshinskii-Moriya interactions. Nature Communications, 2017, 8, 308.	5.8	182
38	Rashba effect at magnetic metal surfaces. Physical Review B, 2005, 71, .	1.1	177
39	The Rashba-effect at metallic surfaces. Surface Science, 2006, 600, 3888-3891.	0.8	171
40	Spin-orbit torques in Co/Pt(111) and Mn/W(001) magnetic bilayers from first principles. Physical Review B, 2014, 90, .	1.1	164
41	Hund's Rule-Driven Dzyaloshinskii-Moriya Interaction at $\frac{d}{d} \sim \frac{1}{5}$ Physical Review Letters. 2016. 117. 247202.	2.9	163
42	Electronic structure and magnetic properties of dilute Fe alloys with transition-metal impurities. Physical Review B, 1989, 40, 8203-8212.	1.1	159
43	Role of Spin in Quasiparticle Interference. Physical Review Letters, 2004, 93, 196802.	2.9	158
44	Enhanced Rashba spin-orbit splitting in Bi ² Ag(111) and Pb ² Ag(111) surface alloys from first principles. Physical Review B, 2007, 75, .	1.1	156
45	Band convergence and linearization error correction of all-electron GW calculations: The extreme case of zinc oxide. Physical Review B. 2011. 83. .	1.1	154
46	Information Transfer by Vector Spin Chirality in Finite Magnetic Chains. Physical Review Letters, 2012, 108, 197204.	2.9	151
47	Atomic-scale magnetism of cobalt-intercalated graphene. Physical Review B, 2013, 87, .	1.1	138
48	Maximally localized Wannier functions within the FLAPW formalism. Physical Review B, 2008, 78, .	1.1	135
49	Revealing Antiferromagnetic Order of the Fe Monolayer on W(001): Spin-Polarized Scanning Tunneling Microscopy and First-Principles Calculations. Physical Review Letters, 2005, 94, 087204.	2.9	133
50	Describing Dzyaloshinskii-Moriya spirals from first principles. Physica B: Condensed Matter, 2009, 404, 2678-2683.	1.3	133
51	Chemical van der Waals Interaction: The Role of the Heteroatom in the Flat Absorption of Aromatic Molecules C_6H_6	2.9	132
52	Optimized structures and electronic properties of alkali-metal (Na, K) -adsorbed Si(001) surfaces. Physical Review B, 1992, 45, 3469-3484.	1.1	130
53	Magnetism and electronic structure of hcp Gd and the Gd(0001) surface. Journal of Physics Condensed Matter, 2002, 14, 6353-6371.	0.7	129
54	Three-Dimensional Spin Structure on a Two-Dimensional Lattice: Mn/Cu(111). Physical Review Letters, 2001, 86, 1106-1109.	2.9	128

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55	Lifetime of racetrack skyrmions. Scientific Reports, 2018, 8, 3433.	1.6	127
56	Total Energy Spectra of Complete Sets of Magnetic States for fcc-Fe Films on Cu(100). Physical Review Letters, 1997, 79, 507-510.	2.9	126
57	Ferromagnetism versus antiferromagnetism of the Cr(001) surface. Physical Review B, 1989, 39, 1392-1394.	1.1	125
58	Thermal Collapse of Spin Polarization in Half-Metallic Ferromagnets. Physical Review Letters, 2006, 97, 026404.	2.9	121
59	Berry phase theory of Dzyaloshinskii-Moriya interaction and spin-orbit torques. Journal of Physics Condensed Matter, 2014, 26, 104202.	0.7	121
60	Evidence for a direct band gap in the topological insulator Bi_2Se_3 from theory and experiment. Physical Review B, 2013, 87, .	1.1	117
61	Magnetization-Direction-Dependent Local Electronic Structure Probed by Scanning Tunneling Spectroscopy. Physical Review Letters, 2002, 89, 237205.	2.9	116
62	Full-potential KKR calculations for metals and semiconductors. Physical Review B, 1999, 60, 5202-5210.	1.1	112
63	<i>Spirit</i> : Multifunctional framework for atomistic spin simulations. Physical Review B, 2019, 99, .	1.1	112
64	Engineering skyrmions in transition-metal multilayers for spintronics. Nature Communications, 2016, 7, 11779.	5.8	109
65	Real-Space and Reciprocal-Space Berry Phases in the Hall Effect of Mn_2Se . Physical Review Letters, 2014, 112, 186601.	2.9	105
66	Topological chiral magnetic interactions driven by emergent orbital magnetism. Nature Communications, 2020, 11, 511.	5.8	104
67	Isomer Shifts and Their Relation to Charge Transfer in Dilute Fe Alloys. Physical Review Letters, 1986, 56, 2407-2410.	2.9	103
68	Control of morphology and formation of highly geometrically confined magnetic skyrmions. Nature Communications, 2017, 8, 15569.	5.8	103
69	Broken-bond rule for the surface energies of noble metals. Europhysics Letters, 2002, 58, 751-757.	0.7	101
70	Half-metallic ferromagnets for magnetic tunnel junctions by ab initio calculations. Physical Review B, 2005, 72, .	1.1	100
71	Observation of a Complex Nanoscale Magnetic Structure in a Hexagonal Fe Monolayer. Physical Review Letters, 2006, 96, 167203.	2.9	100
72	Giant Magnetocrystalline Anisotropies of 4d Transition-Metal Monowires. Physical Review Letters, 2006, 96, 147201.	2.9	99

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73	Prediction of bias-voltage-dependent corrugation reversal for STM images of bcc (110) surfaces: W(110), Ta(110), and Fe(110). Physical Review B, 1998, 58, 16432-16445.	1.1	96
74	Magnetically induced ferroelectricity in orthorhombic manganites: Microscopic origin and chemical trends. Physical Review B, 2008, 78, .	1.1	96
75	Seeing the Fermi Surface in Real Space by Nanoscale Electron Focusing. Science, 2009, 323, 1190-1193.	6.0	96
76	Structure and Growth of Hexagonal Boron Nitride on Ir(111). ACS Nano, 2016, 10, 11012-11026.	7.3	93
77	Perpendicular reading of single confined magnetic skyrmions. Nature Communications, 2015, 6, 8541.	5.8	92
78	Dzyaloshinskii-Moriya Interaction and Hall Effects in the Skyrmion Phase of Mn_2P . Physical Review Letters, 2015, 115, 036602.	2.9	91
79	Electronic structure of two-dimensional magnetic alloys: $c(2\sqrt{2})$ Mn on Cu(100) and Ni(100). Physical Review B, 1997, 55, 5404-5415.	1.1	90
80	Magnetic Hardening Induced by Nonmagnetic Organic Molecules. Physical Review Letters, 2013, 111, 106805.	2.9	89
81	Magnetism of 4d and 5d transition metal adlayers on Ag(001): Dependence on the adlayer thickness. Physical Review B, 1995, 51, 2025-2028.	1.1	88
82	Electronic phase transitions of bismuth under strain from relativistic self-consistent G W calculations. Physical Review B, 2015, 91, .	1.1	88
83	Interaction of Individual Skyrmions in a Nanostructured Cubic Chiral Magnet. Physical Review Letters, 2018, 120, 197203.	2.9	88
84	Anisotropic Spin Hall Effect from First Principles. Physical Review Letters, 2010, 105, 246602.	2.9	87
85	G W calculations for Bi_2Te_3 . Physical Review B, 2011, 84, .	1.1	87
86	Study of topological insulators Bi_2Se_3 and Bi_2Te_3 . Physical Review B, 2011, 84, .	1.1	85
87	Realization of a vertical topological π -junction in epitaxial $\text{Sb}_2\text{Te}_3/\text{Bi}_2\text{Te}_3$ heterostructures. Nature Communications, 2015, 6, 8816.	5.8	85
88	Density functional theory with nonlocal correlation: A key to the solution of the CO adsorption puzzle. Physical Review B, 2010, 81, .	1.1	83
89	Wannier-function approach to spin excitations in solids. Physical Review B, 2010, 81, .	1.1	83
90	Contribution of Surface Resonances to Scanning Tunneling Microscopy Images: (110) Surfaces of III-V Semiconductors. Physical Review Letters, 1996, 77, 2997-3000.	2.9	78

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91	Elimination of the linearization error in GW calculations based on the linearized augmented-plane-wave method. Physical Review B, 2006, 74, . Probing two topological surface bands of Sb	1.1	78
92	Probing two topological surface bands of SbTe by spin-polarized photoemission spectroscopy. Physical Review B, 2012, 86, .	1.1	78
93	First-principles prediction of high Curie temperature for ferromagnetic bcc-Co and bcc-FeCo alloys and its relevance to tunneling magnetoresistance. Applied Physics Letters, 2007, 90, 082504.	1.5	77
94	Fe-induced magnetization of Pd: The role of modified Pd surface states. Physical Review Letters, 1994, 72, 2247-2250.	2.9	76
95	Ab initio theory of exchange interactions and the Curie temperature of bulk Gd. Journal of Physics Condensed Matter, 2003, 15, 2771-2782.	0.7	76
96	Lack of evidence for ferromagnetism in the vanadium monolayer on Ag(001). Physical Review B, 1988, 37, 10380-10382.	1.1	75
97	New spiral state and skyrmion lattice in 3D model of chiral magnets. New Journal of Physics, 2016, 18, 045002.	1.2	75
98	The Backside of Graphene: Manipulating Adsorption by Intercalation. Nano Letters, 2013, 13, 5013-5019.	4.5	74
99	Oxygen-enabled control of Dzyaloshinskii-Moriya Interaction in ultra-thin magnetic films. Scientific Reports, 2016, 6, 24634.	1.6	74
100	Direct and inverse spin-orbit torques. Physical Review B, 2015, 92, .	1.1	73
101	Functionalized bismuth films: Giant gap quantum spin Hall and valley-polarized quantum anomalous Hall states. Physical Review B, 2015, 91, .	1.1	73
102	Conditions for spin-gapless semiconducting behavior in Mn ₂ CoAl inverse Heusler compound. Journal of Applied Physics, 2014, 115, .	1.1	72
103	Dzyaloshinskii-Moriya interaction and chiral magnetism in 3D topological insulator chains: Tight-binding model and ab initio calculations. Physical Review B, 2014, 90, .	1.1	72
104	Comparison between ab initio theory and scanning tunneling microscopy for (110) surfaces of III-V semiconductors. Physical Review B, 1998, 58, 7799-7815.	1.1	71
105	Accessing 4f-states in single-molecule spintronics. Nature Communications, 2013, 4, 2425.	5.8	71
106	Role of Berry phase theory for describing orbital magnetism: From magnetic heterostructures to topological orbital ferromagnets. Physical Review B, 2016, 94, .	1.1	71
107	Ferromagnetism and Antiferromagnetism of 3D Metal Overlayers on Noble-Metal Substrates. Europhysics Letters, 1989, 9, 597-602.	0.7	70
108	Ab Initio Theory of the Scattering-Independent Anomalous Hall Effect. Physical Review Letters, 2011, 107, 106601.	2.9	68

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109	Femtosecond electron dynamics of image-potential states on clean and oxygen-covered Pt(111). Physical Review B, 2001, 63, .	1.1	67
110	Toward surface orbitronics: giant orbital magnetism from the orbital Rashba effect at the surface of sp-metals. Scientific Reports, 2017, 7, 46742.	1.6	67
111	BiTe1 is a dual topological insulator. Nature Communications, 2017, 8, 14976.	5.8	66
112	Direct Observation of the Band Gap Transition in Atomically Thin ReS ₂ . Nano Letters, 2017, 17, 5187-5192.	4.5	65
113	Theory of current-induced angular momentum transfer dynamics in spin-orbit coupled systems. Physical Review Research, 2020, 2, .	1.3	65
114	Ferromagnetism of 4 d-Metal Monolayers on Ag, Au and Pd(001) Surfaces. Europhysics Letters, 1992, 18, 257-262.	0.7	64
115	Magnetically stabilized surface alloys. Applied Physics A: Materials Science and Processing, 1996, 63, 595-604.	1.1	63
116	Origin of the Planar Hall Effect in Nanocrystalline $\text{Co}_{60}\text{Fe}_{40}$. Physical Review Letters, 2011, 107, 086603.	2.9	61
117	Embedded Green-function approach to the ballistic electron transport through an interface. Physical Review B, 2002, 66, .	1.1	62
118	Interlayer Exchange Coupling: A General Scheme Turning Chiral Magnets into Magnetic Multilayers Carrying Atomic-Scale Skyrmions. Physical Review Letters, 2016, 116, 177202.	2.9	62
119	Quantum size effects and the enhancement of the exchange splitting in ultrathin Co overlayers on Cu (100). Solid State Communications, 1992, 81, 739-744.	0.9	61
120	Interface properties of $\text{NiMnSb}/\text{InPdNiMnSb}/\text{GaAs}$ contacts. Physical Review B, 2005, 71, .	1.1	61
121	Magnetic order and exchange interactions in monoatomic 3d transition-metal chains. Physical Review B, 2007, 75, .	1.1	61
122	Scattering-independent anomalous Nernst effect in ferromagnets. Physical Review B, 2013, 87, .	1.1	61
123	First-principles calculations of exchange interactions, spin waves, and temperature dependence of magnetization in inverse-Heusler-based spin gapless semiconductors. Physical Review B, 2015, 91, .	1.1	61
124	Systematic derivation of realistic spin models for beyond-Heisenberg solids. Physical Review B, 2020, 101, .	1.1	61
125	Bulk band structure of Bi_2Te_3 . Physical Review B, 2014, 90, .	1.1	60
126	Large Dzyaloshinskii-Moriya interaction induced by chemisorbed oxygen on a ferromagnet surface. Science Advances, 2020, 6, eaba4924.	4.7	60

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127	Magnetism of Nanowires Driven by Novel Even-Odd Effects. <i>Physical Review Letters</i> , 2008, 101, 107204.	2.9	59
128	Complex magnetism of iron monolayers on hexagonal transition metal surfaces from first principles. <i>Physical Review B</i> , 2009, 79, .	1.1	59
129	Hyperfine fields of impurities in ferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1984, 45, 291-297.	1.0	58
130	Electronic structure of buried $\hat{1}\pm$ -FeSi ₂ and $\hat{1}^2$ -FeSi ₂ layers: Soft-x-ray-emission and -absorption studies compared to band-structure calculations. <i>Physical Review B</i> , 1994, 50, 18330-18340.	1.1	58
131	Electronic and magnetic structure of the (001) surfaces of V, Cr, and V/Cr. <i>Physical Review B</i> , 2000, 62, R11937-R11940.	1.1	58
132	First-principles stabilization of an unconventional collinear magnetic ordering in distorted manganites. <i>Physical Review B</i> , 2006, 74, .	1.1	58
133	Rationalizing strain engineering effects in rare-earth nickelates. <i>Physical Review B</i> , 2013, 88, .	1.1	58
134	Full-potential linearized augmented plane-wave method for one-dimensional systems: Gold nanowire and iron monowires in a gold tube. <i>Physical Review B</i> , 2005, 72, .	1.1	57
135	Electronic structure of the Nowotny chimney-ladder silicide Ru ₂ Si ₃ s. <i>Physical Review B</i> , 1997, 55, 6918-6926.	1.1	56
136	Ab initio Green-function formulation of the transfer matrix: Application to complex band structures. <i>Physical Review B</i> , 2002, 65, .	1.1	56
137	Topological magnon insulators in two-dimensional van der Waals ferromagnets CrSiTe ₃ and CrGeTe ₃ : Toward intrinsic gap-tunability. <i>Science Advances</i> , 2021, 7, eabi7532.	4.7	56
138	Wannier function approach to realistic Coulomb interactions in layered materials and heterostructures. <i>Physical Review B</i> , 2015, 92, .	1.1	55
139	Spin-order dependent anomalous Hall effect and magneto-optical effect in the noncollinear antiferromagnets Mn_3N with X , Zn, Ag, or Ni. <i>Physical Review B</i> , 2019, 99, .	1.1	55
140	Ab initio calculation of the effective on-site Coulomb interaction parameters for half-metallic magnets. <i>Physical Review B</i> , 2013, 88, .	1.1	54
141	First-principles analysis of a homochiral cycloidal magnetic structure in a monolayer Cr on W(110). <i>Physical Review B</i> , 2014, 90, .	1.1	54
142	Spin orientation and sign of the Rashba splitting in Bi/Cu(111). <i>Physical Review B</i> , 2011, 84, .	1.1	53
143	Universality of defect-skyrmion interaction profiles. <i>Nature Communications</i> , 2018, 9, 4395.	5.8	53
144	Theoretical support to the double-layer model for potassium adsorption on the Si(001) surface. <i>Physical Review B</i> , 1991, 44, 3459-3462.	1.1	52

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145	All-electron first-principles investigations of the energetics of vicinal Cu surfaces. Physical Review B, 2006, 73, .	1.1	52
146	Role of the van der Waals interactions on the bonding mechanism of pyridine on Cu(110) and Ag(110) surface: First-principles study. Physical Review B, 2008, 78, .	1.1	52
147	Engineering the magnetic properties of hybrid organic-ferromagnetic interfaces by molecular chemical functionalization. Physical Review B, 2011, 84, .	1.1	52
148	Role of Dzyaloshinskii-Moriya interaction for magnetism in transition-metal chains at Pt step edges. Physical Review B, 2016, 94, .	1.1	52
149	Unoccupied surface state on Pt(111) revealed by scanning tunneling spectroscopy. Physical Review B, 2005, 72, .	1.1	51
150	Topological magneto-optical effects and their quantization in noncoplanar antiferromagnets. Nature Communications, 2020, 11, 118.	5.8	51
151	Unexpected trend of magnetic order of 3d transition-metal monolayers on W(001). Physical Review B, 2005, 72, .	1.1	50
152	Ferromagnetic Spin Coupling of 2p Impurities in Band Insulators Stabilized by an Intersite Coulomb Interaction: Nitrogen-Doped MgO. Physical Review Letters, 2011, 107, 137203.	2.9	50
153	Helical magnetic structure and the anomalous and topological Hall effects in epitaxial B20 $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" > \langle \text{mml:mrow} > \langle \text{mml:msub} > \langle \text{mml:mi} > \text{Fe} < / \text{mml:mi} > \langle \text{mml:mrow} > \langle \text{mml:mi} > 1 < / \text{mml:mi} > \langle \text{mml:math} > \text{films}$. Physical Review B, 2018, 97, .	1.1	50
154	The interplay of structure and spin-orbit strength in the magnetism of metal-benzene sandwiches: from single molecules to infinite wires. Nanotechnology, 2007, 18, 495402.	1.3	49
155	Local exact exchange potentials within the all-electron FLAPW method and a comparison with pseudopotential results. Physical Review B, 2011, 83, .	1.1	49
156	Theoretical investigation of the inverse Faraday effect via a stimulated Raman scattering process. Physical Review B, 2012, 85, .	1.1	49
157	Magnetic skyrmions, chiral kinks, and holomorphic functions. Physical Review B, 2020, 102, .	1.1	49
158	Hybrid functionals within the all-electron FLAPW method: Implementation and applications of PBE0. Physical Review B, 2010, 81, .	1.1	48
159	Self-Assembled Nanometer-Scale Magnetic Networks on Surfaces: Fundamental Interactions and Functional Properties. Advanced Functional Materials, 2011, 21, 1212-1228.	7.8	48
160	Tuning the van der Waals Interaction of Graphene with Molecules via Doping. Physical Review Letters, 2015, 115, 236101.	2.9	48
161	Strong Ferromagnetism of 3d-Metal Overlayers on Pd(001). Europhysics Letters, 1988, 7, 743-748.	0.7	47
162	Topological spin Hall effect in antiferromagnetic skyrmions. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700007.	1.2	47

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163	Orbital Rashba effect in a surface-oxidized Cu film. Physical Review B, 2021, 103, .	1.1	47
164	First-principles study of the electronic structure and exchange interactions in bcc europium. Physical Review B, 2003, 68, .	1.1	46
165	Theory of the inverse Faraday effect in view of ultrafast magnetization experiments. Physical Review B, 2011, 84, .	1.1	46
166	Quasiparticle spectrum and plasmonic excitations in the topological insulator Sb_2Te_3 . Physical Review B, 2015, 91, .	1.1	46
167	Switching of chiral magnetic skyrmions by picosecond magnetic field pulses via transient topological states. Scientific Reports, 2016, 6, 27146.	1.6	46
168	Structural, electronic, and magnetic properties of a Mn monolayer on W(110). Physical Review B, 2002, 66, .	1.1	45
169	Spin-orbit coupling in quasiparticle studies of topological insulators. Physical Review B, 2013, 88, .	1.1	45
170	Electronic structure, surface morphology, and topologically protected surface states of Sb_2Te_3 thin films grown on Si(111). Journal of Applied Physics, 2013, 113, .	1.1	45
171	Chirality-driven orbital magnetic moments as a new probe for topological magnetic structures. Nature Communications, 2016, 7, 13613.	5.8	45
172	Exchange-dependent hybridization at the Pd-Fe interface. Physical Review B, 1992, 45, 13823-13826.	1.1	44
173	Ferromagnetic order in ultrathin Rh layers on Fe(100). Physical Review B, 1992, 46, 12888-12891.	1.1	44
174	Real-space electronic structure calculations with full-potential all-electron precision for transition metals. Physical Review B, 2010, 82, .	1.1	44
175	Exchange interactions and local-moment fluctuation corrections in ferromagnets at finite temperatures based on noncollinear density-functional calculations. Physical Review B, 2013, 88, .	1.1	44
176	Skew scattering in dilute ferromagnetic alloys. Physical Review B, 2014, 90, .	1.1	44
177	Long-range magnetic coupling between nanoscale organic-metal hybrids mediated by a nanoskyrmion lattice. Nature Nanotechnology, 2014, 9, 1018-1023.	15.6	44
178	Two-Dimensional Topological Crystalline Insulator and Topological Phase Transition in TlSe and TlS Monolayers. Nano Letters, 2015, 15, 6071-6075.	4.5	44
179	Surface Fermi arc connectivity in the type-II Weyl semimetal candidate WTe_2 . Physical Review B, 2016, 94, .	1.1	44
180	Chiral Hall Effect in Noncollinear Magnets from a Cyclic Cohomology Approach. Physical Review Letters, 2020, 124, 096602.	2.9	44

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181	Noncollinear Korringa-Kohn-Rostoker Green function method: Application to 3D nanostructures on Ni(001). <i>Physical Review B</i> , 2005, 72, .	1.1	43
182	Precise response functions in all-electron methods: Application to the optimized-effective-potential approach. <i>Physical Review B</i> , 2012, 85, .	1.1	43
183	Mixed topological semimetals driven by orbital complexity in two-dimensional ferromagnets. <i>Nature Communications</i> , 2019, 10, 3179.	5.8	43
184	Controlling the Magnetization Direction in Molecules via Their Oxidation State. <i>Physical Review Letters</i> , 2008, 100, 117207.	2.9	42
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