

Gustav Bihlmayer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

238
papers

14,721
citations

55
h-index

116
g-index

250
ext. papers

16,597
ext. citations

5.2
avg, IF

6.27
L-index

#	Paper	IF	Citations
238	Bulk and surface electronic structure of Bi ₄ Te ₃ from GW calculations and photoemission experiments. <i>Physical Review Materials</i> , 2022 , 6,	3.2	1
237	Strong and Weak 3D Topological Insulators Probed by Surface Science Methods. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2000060	1.3	0
236	Quantum spin mixing in Dirac materials. <i>Communications Physics</i> , 2021 , 4,	5.4	1
235	Mn-Rich MnSb Te : A Topological Insulator with Magnetic Gap Closing at High Curie Temperatures of 45-50 K. <i>Advanced Materials</i> , 2021 , 33, e2102935	24	16
234	Z ₂ topology of bismuth. <i>Physical Review Materials</i> , 2021 , 5,	3.2	1
233	Unconventional Co-Existence of Insulating Nano-Regions and Conducting Filaments in Reduced SrTiO ₃ : Mode Softening, Local Piezoelectricity, and Metallicity. <i>Crystals</i> , 2020 , 10, 437	2.3	6
232	Plumbene on a Magnetic Substrate: A Combined Scanning Tunneling Microscopy and Density Functional Theory Study. <i>Physical Review Letters</i> , 2020 , 124, 126401	7.4	10
231	Topological-chiral magnetic interactions driven by emergent orbital magnetism. <i>Nature Communications</i> , 2020 , 11, 511	17.4	56
230	Electric dipole moment as descriptor for interfacial Dzyaloshinskii-Moriya interaction. <i>Physical Review Materials</i> , 2020 , 4,	3.2	9
229	Material systems for FM-/AFM-coupled skyrmions in Co/Pt-based multilayers. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
228	Density Functional Theory for Magnetism and Magnetic Anisotropy 2020 , 895-917		
227	Discovery of Real-Space Topological Ferroelectricity in Metallic Transition Metal Phosphides. <i>Advanced Materials</i> , 2020 , 32, e2003479	24	7
226	Magnetic properties of ultra-thin (Fe, Co) films coupled by Ir(001) spacers. <i>Physica B: Condensed Matter</i> , 2020 , 596, 412395	2.8	1
225	Mapping the conducting channels formed along extended defects in SrTiO by means of scanning near-field optical microscopy. <i>Scientific Reports</i> , 2020 , 10, 17763	4.9	5
224	Orbital-enhanced warping effect in px,py-derived Rashba spin splitting of monatomic bismuth surface alloy. <i>Npj Quantum Materials</i> , 2020 , 5,	5	1
223	Self-reduction of the native TiO (110) surface during cooling after thermal annealing - in-operando investigations. <i>Scientific Reports</i> , 2019 , 9, 12563	4.9	12
222	Indirect chiral magnetic exchange through Dzyaloshinskii-Moriya-enhanced RKKY interactions in manganese oxide chains on Ir(100). <i>Nature Communications</i> , 2019 , 10, 2610	17.4	10

221	Comparison of first-principles methods to extract magnetic parameters in ultrathin films: Co/Pt(111). <i>Physical Review B</i> , 2019 , 99,	3.3	16
220	Kink far below the Fermi level reveals new electron-magnon scattering channel in Fe. <i>Nature Communications</i> , 2019 , 10, 505	17.4	10
219	Mixed topological semimetals driven by orbital complexity in two-dimensional ferromagnets. <i>Nature Communications</i> , 2019 , 10, 3179	17.4	17
218	Electronic Structure of Oxygen-Deficient SrTiO ₃ and Sr ₂ TiO ₄ . <i>Crystals</i> , 2019 , 9, 580	2.3	11
217	Ab initio analysis of magnetic properties of the prototype B20 chiral magnet FeGe. <i>Physical Review B</i> , 2019 , 100,	3.3	9
216	Tailoring the topological surface state in ultrathin Bi ₂ Se ₃ (111) films. <i>Physical Review B</i> , 2019 , 100,	3.3	15
215	Mapping the band structure of GeSbTe phase change alloys around the Fermi level. <i>Communications Physics</i> , 2018 , 1,	5.4	12
214	Electrically controlled transformation of memristive titanates into mesoporous titanium oxides via incongruent sublimation. <i>Scientific Reports</i> , 2018 , 8, 3774	4.9	8
213	Topological interface states in the natural heterostructure (PbSe) ₅ (Bi ₂ Se ₃) ₆ with BiPb defects. <i>Physical Review B</i> , 2018 , 97,	3.3	6
212	Competing edge structures of Sb and Bi bilayers generated by trivial and nontrivial band topologies. <i>Physical Review B</i> , 2018 , 98,	3.3	3
211	Influence of Dislocations in Transition Metal Oxides on Selected Physical and Chemical Properties. <i>Crystals</i> , 2018 , 8, 241	2.3	31
210	Towards microscopic control of the magnetic exchange coupling at the surface of a topological insulator. <i>JPhys Materials</i> , 2018 , 1, 015002	4.2	11
209	Anomalous behavior of the electronic structure of (Bi _{1-x} In _x) ₂ Se ₃ across the quantum phase transition from topological to trivial insulator. <i>Physical Review B</i> , 2018 , 98,	3.3	12
208	Hybrid quantum anomalous Hall effect at graphene-oxide interfaces. <i>Physical Review B</i> , 2018 , 98,	3.3	7
207	Density Functional Theory for Magnetism and Magnetic Anisotropy 2018 , 1-23		
206	Magnetic Ground State Stabilized by Three-Site Interactions: Fe/Rh(111). <i>Physical Review Letters</i> , 2018 , 120, 207202	7.4	23
205	Local surface conductivity of transition metal oxides mapped with true atomic resolution. <i>Nanoscale</i> , 2018 , 10, 11498-11505	7.7	14
204	A-Site and B-Site Charge Orderings in an s-d Level Controlled Perovskite Oxide PbCoO. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4574-4581	16.4	38

203	Robust dual topological character with spin-valley polarization in a monolayer of the Dirac semimetal Na ₃ Bi. <i>Physical Review B</i> , 2017 , 95,	3.3	27
202	Magnetism in a graphene-4f \bar{d} hybrid system. <i>Physical Review B</i> , 2017 , 95,	3.3	11
201	BiTe is a dual topological insulator. <i>Nature Communications</i> , 2017 , 8, 14976	17.4	46
200	Highly-ordered wide bandgap materials for quantized anomalous Hall and magnetoelectric effects. <i>2D Materials</i> , 2017 , 4, 025082	5.9	125
199	Designing the Rashba spin texture by adsorption of inorganic molecules. <i>New Journal of Physics</i> , 2017 , 19, 043017	2.9	4
198	Nanostructural origin of giant Rashba effect in intercalated graphene. <i>2D Materials</i> , 2017 , 4, 035010	5.9	11
197	Direct Observation of the Band Gap Transition in Atomically Thin ReS ₂ . <i>Nano Letters</i> , 2017 , 17, 5187-5192	11.5	49
196	Creating anisotropic spin-split surface states in momentum space by molecular adsorption. <i>Physical Review B</i> , 2017 , 96,	3.3	4
195	Tilted Dirac cone on W(110) protected by mirror symmetry. <i>Physical Review B</i> , 2017 , 95,	3.3	9
194	Exploring the subsurface atomic structure of the epitaxially grown phase-change material Ge ₂ Sb ₂ Te ₅ . <i>Physical Review B</i> , 2017 , 96,	3.3	7
193	Spin-polarized confined states in Ag films on Fe(1 1 0). <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 495806	1.8	0
192	Two-dimensional topological nodal line semimetal in layered X ₂ Y (X=Ca, Sr, and Ba; Y=As, Sb, and Bi). <i>Physical Review B</i> , 2017 , 95,	3.3	28
191	Chalcogenide-based van der Waals epitaxy: Interface conductivity of tellurium on Si(111). <i>Physical Review B</i> , 2017 , 96,	3.3	10
190	Toward surface orbitronics: giant orbital magnetism from the orbital Rashba effect at the surface of sp-metals. <i>Scientific Reports</i> , 2017 , 7, 46742	4.9	33
189	Asymmetric band gaps in a Rashba film system. <i>Physical Review B</i> , 2016 , 93,	3.3	13
188	Role of Dzyaloshinskii-Moriya interaction for magnetism in transition-metal chains at Pt step edges. <i>Physical Review B</i> , 2016 , 94,	3.3	36
187	Engineering skyrmions in transition-metal multilayers for spintronics. <i>Nature Communications</i> , 2016 , 7, 11779	17.4	85
186	Two-dimensional topological crystalline insulator phase in quantum wells of trivial insulators. <i>2D Materials</i> , 2016 , 3, 025037	5.9	5

185	Reproducibility in density functional theory calculations of solids. <i>Science</i> , 2016 , 351, aad3000	33.3	784
184	Scattering properties of the three-dimensional topological insulator Sb ₂ Te ₃ : Coexistence of topologically trivial and nontrivial surface states with opposite spin-momentum helicity. <i>Physical Review B</i> , 2016 , 93,	3.3	9
183	Quasi 2D electronic states with high spin-polarization in centrosymmetric MoS ₂ bulk crystals. <i>Scientific Reports</i> , 2016 , 6, 26197	4.9	28
182	Spin-orbit and exchange effects in the 2DEG of BiAlO ₃ -based oxide heterostructures. <i>Europhysics Letters</i> , 2016 , 115, 17006	1.6	2
181	Hund's Rule-Driven Dzyaloshinskii-Moriya Interaction at 3d-5d Interfaces. <i>Physical Review Letters</i> , 2016 , 117, 247202	7.4	105
180	Fermi Surface Manipulation by External Magnetic Field Demonstrated for a Prototypical Ferromagnet. <i>Physical Review X</i> , 2016 , 6,	9.1	11
179	Oxygen-enabled control of Dzyaloshinskii-Moriya Interaction in ultra-thin magnetic films. <i>Scientific Reports</i> , 2016 , 6, 24634	4.9	57
178	Two-Dimensional Topological Crystalline Insulator and Topological Phase Transition in TlSe and TlS Monolayers. <i>Nano Letters</i> , 2015 , 15, 6071-5	11.5	32
177	Spin-Flip and Element-Sensitive Electron Scattering in the BiAg ₂ Surface Alloy. <i>Physical Review Letters</i> , 2015 , 114, 166801	7.4	20
176	Topological crystalline insulator and quantum anomalous Hall states in IV-VI-based monolayers and their quantum wells. <i>Physical Review B</i> , 2015 , 91,	3.3	28
175	Ab Initio Calculations of Two-Dimensional Topological Insulators* 2015 , 101-129		1
174	Polymorphous GdScO ₃ as high permittivity dielectric. <i>Journal of Alloys and Compounds</i> , 2015 , 651, 514-520	3.7	6
173	Highly spin-polarized Dirac fermions at the graphene/Co interface. <i>Physical Review B</i> , 2015 , 91,	3.3	32
172	Resistive Switching of a Quasi-Homogeneous Distribution of Filaments Generated at Heat-Treated TiO ₂ (110)-Surfaces. <i>Advanced Functional Materials</i> , 2015 , 25, 6382-6389	15.6	21
171	Magnetization-dependent Rashba splitting of quantum well states at the Co/W interface. <i>Physical Review B</i> , 2015 , 91,	3.3	18
170	Focus on the Rashba effect. <i>New Journal of Physics</i> , 2015 , 17, 050202	2.9	125
169	Realization of a vertical topological p-n junction in epitaxial Sb ₂ Te ₃ /Bi ₂ Te ₃ heterostructures. <i>Nature Communications</i> , 2015 , 6, 8816	17.4	70
168	Functionalized bismuth films: Giant gap quantum spin Hall and valley-polarized quantum anomalous Hall states. <i>Physical Review B</i> , 2015 , 91,	3.3	56

167	Interlayer exchange coupling between FeCo and Co ultrathin films through Rh(001) spacers. <i>Physical Review B</i> , 2015 , 91,	3-3	13
166	Nature of the Resistive Switching Phenomena in TiO ₂ and SrTiO ₃ . <i>Solid State Physics</i> , 2014 , 353-559	2	46
165	Intra- and interband electron scattering in a hybrid topological insulator: Bismuth bilayer on Bi ₂ Se ₃ . <i>Physical Review B</i> , 2014 , 90,	3-3	24
164	Charge and orbital order at head-to-head domain walls in PbTiO ₃ . <i>Physical Review B</i> , 2014 , 90,	3-3	12
163	Hubbard U calculations for gap states in dilute magnetic semiconductors. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 274202	1.8	1
162	A combined experimental and theoretical study of Rashba-split surface states on the $\sqrt{3}\times\sqrt{3}$ Pb/Ag(111) surface. <i>New Journal of Physics</i> , 2014 , 16, 045017	2.9	20
161	First-principles analysis of a homochiral cycloidal magnetic structure in a monolayer Cr on W(110). <i>Physical Review B</i> , 2014 , 90,	3-3	42
160	Publisher's Note: Elemental Topological Insulator with Tunable Fermi Level: Strained Sn on InSb(001) [Phys. Rev. Lett. 111, 157205 (2013)]. <i>Physical Review Letters</i> , 2014 , 112,	7-4	2
159	Structural and electronic properties of FeSi ₂ nanoparticles: The role of stacking fault domains. <i>Physical Review B</i> , 2014 , 89,	3-3	6
158	Spin-resolved photoemission and ab initio theory of graphene/SiC. <i>Physical Review B</i> , 2013 , 88,	3-3	11
157	Tuning the Curie temperature of FeCo compounds by tetragonal distortion. <i>Applied Physics Letters</i> , 2013 , 103, 102404	3-4	14
156	First-principles studies of FeS ₂ using many-body perturbation theory in the G ₀ W ₀ approximation. <i>Physical Review B</i> , 2013 , 88,	3-3	21
155	Elemental topological insulator with tunable Fermi level: strained Sn on InSb(001). <i>Physical Review Letters</i> , 2013 , 111, 157205	7-4	110
154	Evidence for topological band inversion of the phase change material Ge ₂ Sb ₂ Te ₅ . <i>Applied Physics Letters</i> , 2013 , 103, 243109	3-4	26
153	GW study of topological insulators Bi ₂ Se ₃ , Bi ₂ Te ₃ , and Sb ₂ Te ₃ : Beyond the perturbative one-shot approach. <i>Physical Review B</i> , 2013 , 88,	3-3	69
152	Influence of the Ge/Sb sublattice atomic composition on the topological electronic properties of Ge ₂ Sb ₂ Te ₅ . <i>Applied Surface Science</i> , 2013 , 267, 169-172	6-7	12
151	Spin-polarization limit in Bi ₂ Te ₃ Dirac cone studied by angle- and spin-resolved photoemission experiments and ab initio calculations. <i>Physical Review B</i> , 2013 , 87,	3-3	33
150	Electronic structure, surface morphology, and topologically protected surface states of Sb ₂ Te ₃ thin films grown on Si(111). <i>Journal of Applied Physics</i> , 2013 , 113, 053706	2-5	39

149	Hard X-ray photoemission study of the covalent-chain antiferromagnets TlFeS ₂ and TlFeSe ₂ . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013 , 10, 989-992		3
148	Exchange interactions and local-moment fluctuation corrections in ferromagnets at finite temperatures based on noncollinear density-functional calculations. <i>Physical Review B</i> , 2013 , 88,	3.3	37
147	Interplay between forward and backward scattering of spin-orbit split surface states of Bi(111). <i>Nano Letters</i> , 2013 , 13, 2717-22	11.5	24
146	Effect of structural modulation and thickness of a graphene overlayer on the binding energy of the Rashba-type surface state of Ir(111). <i>New Journal of Physics</i> , 2013 , 15, 115009	2.9	7
145	Combined large spin splitting and one-dimensional confinement in surface alloys. <i>New Journal of Physics</i> , 2013 , 15, 105013	2.9	5
144	Co atoms on Bi ₂ Se ₃ revealing a coverage dependent spin reorientation transition. <i>New Journal of Physics</i> , 2013 , 15, 113026	2.9	16
143	Cluster-like resistive switching of SrTiO ₃ :Nb surface layers. <i>New Journal of Physics</i> , 2013 , 15, 103017	2.9	40
142	Engineering quantum anomalous Hall phases with orbital and spin degrees of freedom. <i>Physical Review B</i> , 2013 , 87,	3.3	19
141	Poster: Spin-Related Phenomena 2013 , 589-632		
140	Tuning of the Rashba effect in Pb quantum well states via a variable Schottky barrier. <i>Scientific Reports</i> , 2013 , 3, 1963	4.9	19
139	Giant Rashba splitting in graphene due to hybridization with gold. <i>Nature Communications</i> , 2012 , 3, 1232	17.4	271
138	Electronic states of moiré-modulated Cu films. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 335502	1.8	4
137	Probing two topological surface bands of Sb ₂ Te ₃ by spin-polarized photoemission spectroscopy. <i>Physical Review B</i> , 2012 , 86,	3.3	73
136	Ir(111) surface state with giant Rashba splitting persists under graphene in air. <i>Physical Review Letters</i> , 2012 , 108, 066804	7.4	133
135	Ab initio investigations of magnetic properties of FeCo monolayer alloy films on Rh(001). <i>Physical Review B</i> , 2012 , 86,	3.3	8
134	Gitter aus magnetischen Wirbeln. <i>Physik in Unserer Zeit</i> , 2012 , 43, 6-7	0.1	1
133	Quantum electron confinement in closely matched metals: Au films on Ag(111). <i>Physical Review B</i> , 2012 , 86,	3.3	9
132	Weak antiferromagnetic superexchange interaction in fcc C ₆₀ Hn. <i>Physical Review B</i> , 2012 , 86,	3.3	3

131	Topological phases of Bi(111) bilayer in an external exchange field. <i>Physical Review B</i> , 2012 , 86,	3.3	37
130	First-principles study of intermixing and polarization at the DyScO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2012 , 85,	3.3	7
129	Interfacing 2D and 3D topological insulators: Bi(111) bilayer on Bi ₂ Te ₃ . <i>Physical Review Letters</i> , 2011 , 107, 166801	7.4	216
128	Localized edge states in two-dimensional topological insulators: Ultrathin Bi films. <i>Physical Review B</i> , 2011 , 83,	3.3	258
127	Spontaneous atomic-scale magnetic skyrmion lattice in two dimensions. <i>Nature Physics</i> , 2011 , 7, 713-718	16.2	1169
126	Non-planar Dzyaloshinskii spirals and magnetic domain walls in non-centrosymmetric systems with orthorhombic anisotropy. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3005-15	1.3	11
125	Anisotropic scattering of surface state electrons at a point defect on Bi(111). <i>Applied Physics Letters</i> , 2011 , 98, 022108	3.4	24
124	Three- and two-dimensional topological insulators in Pb ₂ Sb ₂ Te ₅ , Pb ₂ Bi ₂ Te ₅ , and Pb ₂ Bi ₂ Se ₅ layered compounds. <i>JETP Letters</i> , 2011 , 94, 217-221	1.2	16
123	Modeling magnetism of hexagonal Fe monolayers on 4d substrates. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2242-2247	1.3	16
122	Self-Assembled Nanometer-Scale Magnetic Networks on Surfaces: Fundamental Interactions and Functional Properties. <i>Advanced Functional Materials</i> , 2011 , 21, 1212-1228	15.6	42
121	Ab initio electronic structure of thallium-based topological insulators. <i>Physical Review B</i> , 2011 , 83,	3.3	50
120	Manipulating the Rashba-type spin splitting and spin texture of Pb quantum well states. <i>Physical Review B</i> , 2011 , 84,	3.3	17
119	Magnetism of 3d transition-metal monolayers on Rh(100). <i>Physical Review B</i> , 2011 , 83,	3.3	19
118	Spin orientation and sign of the Rashba splitting in Bi/Cu(111). <i>Physical Review B</i> , 2011 , 84,	3.3	46
117	Band dispersion in the deep 1s core level of graphene. <i>Nature Physics</i> , 2010 , 6, 345-349	16.2	42
116	Surface- and edge-states in ultrathin Bi ₂ Se ₃ films. <i>New Journal of Physics</i> , 2010 , 12, 065006	2.9	11
115	Quantum-well-induced giant spin-orbit splitting. <i>Physical Review Letters</i> , 2010 , 104, 066802	7.4	84
114	Island-assisted interface alloying and magnetic polarization at submonolayer V/Cr(001) interfaces. <i>Physical Review B</i> , 2010 , 82,	3.3	3

113	Direct observation of spin-polarized surface states in the parent compound of a topological insulator using spin- and angle-resolved photoemission spectroscopy in a Mott-polarimetry mode. <i>New Journal of Physics</i> , 2010 , 12, 125001	2.9	26
112	Extrinsic screening of ferroelectric domains in Pb(Zr _{0.48} Ti _{0.52})O ₃ . <i>Applied Physics Letters</i> , 2010 , 97, 222903	3.3	36
111	Strong rashba-type spin polarization of the photocurrent from bulk continuum States: experiment and theory for Bi(111). <i>Physical Review Letters</i> , 2010 , 105, 076804	7.4	80
110	Structure and oscillatory multilayer relaxation of the bismuth (100) surface. <i>New Journal of Physics</i> , 2010 , 12, 063016	2.9	5
109	Probing the electronic transmission across a buried metal/metal interface. <i>Physical Review B</i> , 2010 , 82,	3.3	7
108	Influence of the substrate bands on the sp-levels topology of Ag films on Ge(111). <i>Physical Review B</i> , 2009 , 80,	3.3	22
107	Rashba effect at the surfaces of rare-earth metals and their monoxides. <i>New Journal of Physics</i> , 2009 , 11, 013035	2.9	32
106	Describing Dzyaloshinskii-Moriya spirals from first principles. <i>Physica B: Condensed Matter</i> , 2009 , 404, 2678-2683	2.8	92
105	Origin and manipulation of the Rashba splitting in surface alloys. <i>Europhysics Letters</i> , 2009 , 87, 37003	1.6	59
104	Observation of unconventional quantum spin textures in topological insulators. <i>Science</i> , 2009 , 323, 919-923	3.3	963
103	Conservation of the lateral electron momentum at a metal-semiconductor interface studied by ballistic electron emission microscopy. <i>Physical Review Letters</i> , 2009 , 102, 136807	7.4	14
102	Complex magnetism of iron monolayers on hexagonal transition metal surfaces from first principles. <i>Physical Review B</i> , 2009 , 79,	3.3	42
101	Electronic Structure of Ultrathin Bismuth Films with A7 and Black-Phosphorus-like Structures. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 014701	1.5	61
100	Dzyaloshinskii-Moriya interaction accounting for the orientation of magnetic domains in ultrathin films: Fe/W(110). <i>Physical Review B</i> , 2008 , 78,	3.3	361
99	Atomic-scale spin spiral with a unique rotational sense: Mn monolayer on W(001). <i>Physical Review Letters</i> , 2008 , 101, 027201	7.4	193
98	Resonant magnetic x-ray scattering from terbium. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 445208	1.8	3
97	Origin of the surface-state band-splitting in ultrathin Bi films: from a Rashba effect to a parity effect. <i>New Journal of Physics</i> , 2008 , 10, 083038	2.9	60
96	Manipulating quantum-well states by surface alloying: Pb on ultrathin Ag films. <i>Physical Review B</i> , 2008 , 78,	3.3	15

95	One-dimensional 3d electronic bands of monatomic Cu chains. <i>Physical Review Letters</i> , 2008 , 101, 036807.	7.4	4
94	Rashba-type spin-orbit splitting of quantum well states in ultrathin Pb films. <i>Physical Review Letters</i> , 2008 , 101, 266802	7.4	113
93	Controlling the magnetization direction in molecules via their oxidation state. <i>Physical Review Letters</i> , 2008 , 100, 117207	7.4	36
92	First-principles investigation of structural and electronic properties of ultrathin Bi films. <i>Physical Review B</i> , 2008 , 77,	3.3	165
91	Chiral magnetic order at surfaces driven by inversion asymmetry. <i>Nature</i> , 2007 , 447, 190-3	50.4	688
90	Complex magnetism of the Fe monolayer on Ir(111). <i>New Journal of Physics</i> , 2007 , 9, 396-396	2.9	26
89	The interplay of structure and spin-orbit strength in the magnetism of metal-benzene sandwiches: from single molecules to infinite wires. <i>Nanotechnology</i> , 2007 , 18, 495402	3.4	45
88	Structure and magnetic properties of MnPt(110)(1x1): A joint x-ray diffraction and theoretical study. <i>Physical Review B</i> , 2007 , 75,	3.3	12
87	Strong coupling between the spin polarization of Mn and Tb in multiferroic TbMnO ₃ determined by x-ray resonance exchange scattering. <i>Physical Review B</i> , 2007 , 76,	3.3	26
86	Electronic band structure and Fermi surface of ferromagnetic Tb: Experiment and theory. <i>Physical Review B</i> , 2007 , 76,	3.3	20
85	Intrinsic spin-Hall accumulation in honeycomb lattices: Band structure effects. <i>Physical Review B</i> , 2007 , 76,	3.3	14
84	Dynamics of the self-energy of the Gd(0001) surface state probed by femtosecond photoemission spectroscopy. <i>Physical Review Letters</i> , 2007 , 98, 097401	7.4	28
83	Magnetic order in RMn ₂ Ge ₂ (R=Y,Ca) compounds and their solid solutions with LaMn ₂ Ge ₂ . <i>Physical Review B</i> , 2007 , 75,	3.3	21
82	Magnetism of Low-dimensional Systems: Theory 2007 ,		2
81	Magnetic order and exchange interactions in monoatomic 3d transition-metal chains. <i>Physical Review B</i> , 2007 , 75,	3.3	55
80	Enhanced Rashba spin-orbit splitting in BiAg(111) and PbAg(111) surface alloys from first principles. <i>Physical Review B</i> , 2007 , 75,	3.3	142
79	Direct observation of spin splitting in bismuth surface states. <i>Physical Review B</i> , 2007 , 76,	3.3	148
78	Quantum well states in ultrathin Bi films: Angle-resolved photoemission spectroscopy and first-principles calculations study. <i>Physical Review B</i> , 2007 , 75,	3.3	91

77	Magnetic phase control in monolayer films by substrate tuning. <i>Physical Review Letters</i> , 2007 , 99, 187203	7.4	29
76	First-principles investigation of Co wires at Pt(1 1 1) step-edges. <i>Surface Science</i> , 2006 , 600, 4301-4304	1.8	9
75	Scanning tunnelling microscopy of surfaces of half-metals: an ab initio study on NiMnSb(001). <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 797-802	3	4
74	Relaxation effects on the magnetism of decorated step edges: CoPt(664). <i>Physical Review B</i> , 2006 , 73,	3.3	26
73	Thermal collapse of spin polarization in half-metallic ferromagnets. <i>Physical Review Letters</i> , 2006 , 97, 026404	7.4	113
72	Surface electronic structures of La(0001) and Lu(0001). <i>Physical Review B</i> , 2006 , 73,	3.3	19
71	Giant magnetocrystalline anisotropies of 4d transition-metal monowires. <i>Physical Review Letters</i> , 2006 , 96, 147201	7.4	93
70	Observation of a complex nanoscale magnetic structure in a hexagonal Fe monolayer. <i>Physical Review Letters</i> , 2006 , 96, 167203	7.4	85
69	Structural determination of the Bi(110) semimetal surface by LEED analysis and ab initio calculations. <i>Physical Review B</i> , 2006 , 74,	3.3	12
68	Phase separation and dilution in implanted Mn _x Ge _{1-x} alloys. <i>Applied Physics Letters</i> , 2006 , 88, 061907	3.4	70
67	Spin-resolved two-photon photoemission study of the surface resonance state on CoCu(001). <i>Physical Review B</i> , 2006 , 74,	3.3	31
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