

Hubert Ebert

List of Publications by Year in descending order

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80
papers

4,298
citations

117625

34
h-index

106344

65
g-index

80
all docs

80
docs citations

80
times ranked

4761
citing authors

#	ARTICLE	IF	CITATIONS
1	Calculating condensed matter properties using the KKR-Green's function method—recent developments and applications. Reports on Progress in Physics, 2011, 74, 096501.	20.1	803
2	Uncovering electron scattering mechanisms in NiFeCoCrMn derived concentrated solid solution and high entropy alloys. Npj Computational Materials, 2019, 5, .	8.7	251
3	The 2020 skyrmionics roadmap. Journal Physics D: Applied Physics, 2020, 53, 363001.	2.8	245
4	Ab-initio Calculation of the Gilbert Damping Parameter via the Linear Response Formalism. Physical Review Letters, 2011, 107, 066603.	7.8	153
5	Probing bulk electronic structure with hard X-ray angle-resolved photoemission. Nature Materials, 2011, 10, 759-764.	27.5	153
6	Anisotropic exchange coupling in diluted magnetic semiconductors: Ab initio spin-density functional theory. Physical Review B, 2009, 79, .	3.2	133
7	Subatomic resolution force microscopy reveals internal structure and adsorption sites of small iron clusters. Science, 2015, 348, 308-311.	12.6	130
8	First-principles calculation of the Gilbert damping parameter via the linear response formalism with application to magnetic transition metals and alloys. Physical Review B, 2013, 87, .	3.2	114
9	Multiple-scattering formalism for correlated systems: A KKR-DMFT approach. Physical Review B, 2005, 72, .	3.2	112
10	Strength of Correlation Effects in the Electronic Structure of Iron. Physical Review Letters, 2009, 103, 267203.	7.8	107
11	Calculating linear-response functions for finite temperatures on the basis of the alloy analogy model. Physical Review B, 2015, 91, .	3.2	106
12	Extrinsic and Intrinsic Contributions to the Spin Hall Effect of Alloys. Physical Review Letters, 2011, 106, 056601.	7.8	98
13	Ab-initio calculations of the electronic structure of impurities and alloys of ferromagnetic transition metals. Journal of Magnetism and Magnetic Materials, 1991, 100, 241-260.	2.3	96
14	Tuning Spin Hall Angles by Alloying. Physical Review Letters, 2016, 117, 167204.	7.8	94
15	Spectral Function of Ferromagnetic 3d Metals: A Self-Consistent LSDA+DMFT Approach Combined with the One-Step Model of Photoemission. Physical Review Letters, 2006, 97, 227601.	7.8	80
16	Correlation effects in the total energy, the bulk modulus, and the lattice constant of a transition metal: Combined local-density approximation and dynamical mean-field theory applied to Ni and Mn. Physical Review B, 2009, 79, .	3.2	80
17	Photoemission of Bi Circularly Polarized Light: Probe of Spin Polarization or Means for Spin Manipulation?. Physical Review X, 2014, 4, .	8.9	76
18	Emergence of anisotropic Gilbert damping in ultrathin Fe layers on GaAs(001). Nature Physics, 2018, 14, 490-494.	16.7	75

#	ARTICLE	IF	CITATIONS
19	Chemical bond formation showing a transition from physisorption to chemisorption. Science, 2019, 366, 235-238.	12.6	70
20	Exploring the XPS limit in soft and hard x-ray angle-resolved photoemission using a temperature-dependent one-step theory. Physical Review B, 2013, 88, .	3.2	68
21	Momentum-Resolved Spin Dynamics of Bulk and Surface Excited States in the Topological Insulator Bi_2Te_3 . Physical Review Letters, 2015, 114, 097401.	7.8	64
22	Effects of spin-dependent quasiparticle renormalization in Fe, Co, and Ni photoemission spectra: An experimental and theoretical study. Physical Review B, 2012, 85, .	3.2	60
23	Coherent Description of the Intrinsic and Extrinsic Anomalous Hall Effect in Disordered Alloys on an $\text{Ab}^{\text{Initio}}$ Level. Physical Review Letters, 2010, 105, 266604.	7.8	59
24	Orbital magnetism in transition metal systems: The role of local correlation effects. Europhysics Letters, 2008, 82, 37001.	2.0	57
25	Spin-Orbit Hybridization Points in the Face-Centered-Cubic Cobalt Band Structure. Physical Review Letters, 2008, 101, 066402.	7.8	52
26	Band mapping in higher-energy x-ray photoemission: Phonon effects and comparison to one-step theory. Physical Review B, 2008, 78, .	3.2	50
27	Skew scattering in dilute ferromagnetic alloys. Physical Review B, 2014, 90, .	3.2	44
28	Correlation, temperature and disorder: Recent developments in the one-step description of angle-resolved photoemission. Physics Reports, 2018, 740, 1-34.	25.6	43
29	Finite-temperature magnetism of $\text{Fe}_x\text{Co}_{1-x}$. Physical Review B, 2010, 82, .	3.2	41
30	Atomically Resolved Chemical Reactivity of Small Fe Clusters. Physical Review Letters, 2020, 124, 096001.	7.8	41
31	Extension of the standard Heisenberg Hamiltonian to multispin exchange interactions. Physical Review B, 2020, 101, .	3.2	41
32	Effects of spin-orbit coupling on the spin structure of deposited transition-metal clusters. Physical Review B, 2009, 80, .	3.2	36
33	Soft x-ray angle-resolved photoemission spectroscopy on $\text{Ag}(001)$: Band mapping, photon momentum effects, and circular dichroism. Physical Review B, 2008, 77, .	3.2	35
34	Theory of relativistic photoemission for correlated magnetic alloys: LSDA+DMFT study of the electronic structure of $\text{Ni}_x\text{Pd}_{1-x}$. Physical Review B, 2010, 82, .	3.2	35
35	Electronic and magnetic properties of HfTe_2 intercalated by d . Physical Review B, 2016, 94, .	3.2	35
36	Large nonsaturating magnetoresistance and pressure-induced phase transition in the layered semimetal HfTe_2 . Physical Review B, 2017, 96, .	3.2	34

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37	Calculation of angle-resolved photo emission spectra within the one-step model of photo emission. Recent developments. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 91-99.	1.7	33
38	Finite-temperature magnetism of FeRh compounds. Physical Review B, 2016, 93, .	3.2	32
39	Impact of finite temperatures and correlations on the anomalous Hall conductivity from ab initio theory. New Journal of Physics, 2013, 15, 053009.	2.9	31
40	Magnetocrystalline anisotropy and Gilbert damping in iron-rich Fe _{1-x} Si _x thin films. Physical Review B, 2011, 84, .	3.2	29
41	Fully relativistic multiple scattering calculations for general potentials. Physical Review B, 2016, 93, .	3.2	28
42	Accurate scheme to calculate the interatomic Dzyaloshinskii-Moriya interaction parameters. Physical Review B, 2017, 96, .	3.2	28
43	Design of High-Performance Lead-Free Quaternary Antiperovskites for Photovoltaics via Ion Type Inversion and Anion Ordering. Journal of the American Chemical Society, 2021, 143, 12369-12379.	13.7	24
44	Pressure-induced bcc to hcp transition in Fe: Magnetism-driven structure transformation. Physical Review B, 2013, 88, .	3.2	23
45	Separation of the individual contributions to the spin Hall effect in dilute alloys within the first-principles Kubo-StÅrmer approach. Physical Review B, 2015, 92, .	3.2	19
46	⁵⁵ Mn at the border between weak and strong correlations. European Physical Journal B, 2009, 72, 473-478.	1.5	18
47	Recent developments in the theory of HARPES. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 159-164.	1.7	17
48	Skyrmion magnetic structure of an ordered FePt monolayer deposited on Pt(111). Physical Review B, 2014, 89, .	3.2	15
49	Unraveling the spin structure of unoccupied states in Bi ₂ S ₃ . Physical Review B, 2017, 95, .	3.2	15
50	Interplay of sample composition and anomalous Hall effect in Co _x S ₂ . Physical Review B, 2021, 103, .	3.2	15
51	Correlation effects in magnetic materials: An ab initio investigation on electronic structure and spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2013, 189, 129-136.	1.7	14
52	Hidden Mn magnetic-moment disorder and its influence on the physical properties of medium-entropy NiCoMn solid solution alloys. Physical Review Materials, 2019, 3, .	2.4	14
53	Magnetism and ultrafast magnetization dynamics of Co and CoMn alloys at finite temperature. Physical Review B, 2017, 95, .	3.2	13
54	Electronic structure calculations in ordered and disordered solids with spiral magnetic order. Physical Review B, 2011, 83, .	3.2	11

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55	Electronic, magnetic, and transport properties of Fe-intercalated Mn_2S_3 by means of the KKR-CPA method. Physical Review B, 2015, 92, .		
56	Specular reflection of spin-polarized electrons from the W(001) spin-filter crystal in a large range of scattering energies and angles. Physical Review B, 2015, 91, .	3.2	11
57	Nickel: The time-reversal symmetry conserving partner of iron on a chalcogenide topological insulator. Physical Review B, 2016, 94, .	3.2	11
58	Momentum space anisotropy of electronic correlations in Fe and Ni: An analysis of magnetic Compton profiles. Physical Review B, 2014, 89, .	3.2	8
59	Spin-wave stiffness and micromagnetic exchange interactions expressed by means of the KKR Green function approach. Physical Review B, 2019, 99, .	3.2	8
60	Exchange coupling constants at finite temperature. Physical Review B, 2020, 102, .	3.2	8
61	Magnetic and magnetotransport properties at ambient pressure and ferro- to antiferromagnetic transition in Mn_2S_3 . Physical Review B, 2019, 99, .	3.2	8
62	Surface states on fcc Co(001) with distinct sensitivity to surface roughness. Physical Review B, 2011, 84, .	3.2	7
63	Reorientation transition of the magnetic proximity polarization in Fe/(Ga,Mn)As bilayers. Physical Review B, 2012, 85, .	3.2	7
64	Dzyaloshinskii-Moriya interactions and magnetic texture in Fe films deposited on transition-metal dichalcogenides. Physica Status Solidi - Rapid Research Letters, 2016, 10, 218-221.	2.4	7
65	Impact of finite temperatures on the transport properties of Gd from first principles. Physical Review B, 2017, 95, .	3.2	7
66	Magnon scattering in the transport coefficients of CoFe thin films. Physical Review B, 2018, 98, .	3.2	7
67	Electronic and magnetic properties of the 2H-NbS_2 intercalated by 3d transition metal atoms. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2019, 74, 91-98.	0.7	7
68	Spin-dependent electron reflection at W(110). Journal of Physics Condensed Matter, 2020, 33, 115001.	1.8	7
69	Electric-field control of exchange interactions. Physical Review B, 2021, 104, .	3.2	6
70	Magnetic Compton profiles of disordered $\text{Fe}_{0.5}\text{Ni}_{0.5}$ and ordered FeNi alloys. Physical Review B, 2018, 97, .	3.2	5
71	Magnetic Bloch-point hopping in multilayer skyrmions and associated emergent electromagnetic signatures. Physical Review B, 2021, 104, .	3.2	5
72	Electronic and magnetic properties of free and supported transition metal clusters. Phase Transitions, 2005, 78, 71-83.	1.3	3

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73	Spin-spiral state of a Mn monolayer on W(110) studied by soft x-ray absorption spectroscopy at variable temperature. Physical Review B, 2021, 103, .	3.2	3
74	Topologically driven three-spin chiral exchange interactions treated from first principles. Physical Review B, 2021, 104, .	3.2	3
75	Strong momentum-dependent electron-magnon renormalization of a surface resonance on iron. Applied Physics Letters, 2022, 120, .	3.3	3
76	Spin-orbit Induced Electric Field Gradients in Magnetic Solids. Hyperfine Interactions, 2004, 158, 25-28.	0.5	2
77	One-step model of photoemission at finite temperatures: Spin fluctuations of Fe(001). Physical Review B, 2020, 102, .	3.2	2
78	Hyperfine Fields of Light Interstitial Impurities in Ni. Hyperfine Interactions, 2004, 158, 59-62.	0.5	1
79	Wannier-based implementation of the coherent potential approximation with applications to Fe-based transition metal alloys. Physical Review B, 2022, 105, .	3.2	1
80	Ab Initio Calculation of the Gilbert Damping Parameter via Linear Response Formalism. IEEE Transactions on Magnetism, 2013, 49, 1041-1046.	2.1	0