

Heike C Herper

List of Publications by Year in descending order

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80
papers

1,870
citations

394390

19
h-index

276858

41
g-index

85
all docs

85
docs citations

85
times ranked

1788
citing authors

#	ARTICLE	IF	CITATIONS
19	On the rich magnetic phase diagram of (Ni, Co) ϵ -Mn ϵ -Sn Heusler alloys. Journal Physics D: Applied Physics, 2016, 49, 395001.	2.8	18
20	Influence of Electron Correlation on the Electronic Structure and Magnetism of Transition-Metal Phthalocyanines. Journal of Chemical Theory and Computation, 2016, 12, 1772-1785.	5.3	54
21	Element-specific electronic structure and magnetic properties of an epitaxial Ni _{51.6} Mn _{32.9} Sn _{15.5} thin film at the austenite-martensite transition. Physical Review B, 2015, 91, .	3.2	6
22	Influence of ligands on the electronic and magnetic properties of Fe porphyrin in gas phase and on Cu(001). Journal of Applied Physics, 2015, 117, 17B318.	2.5	5
23	Atomic contributions to the valence band photoelectron spectra of metal-free, iron and manganese phthalocyanines. Journal of Electron Spectroscopy and Related Phenomena, 2015, 205, 92-97.	1.7	9
24	Fe phthalocyanine on Co(001): Influence of surface oxidation on structural and electronic properties. Physical Review B, 2014, 89, .	3.2	24
25	Elucidating the 3d Electronic Configuration in Manganese Phthalocyanine. Journal of Physical Chemistry A, 2014, 118, 927-932.	2.5	43
26	<i>Ab initio</i> study of the electronic and magnetic structure of the TiO ₂ /Fe interface. Physical Review B, 2013, 88, .	3.2	5
27	Iron porphyrin molecules on Cu(001): Influence of adlayers and ligands on the magnetic properties. Physical Review B, 2013, 87, .	3.2	33
28	Electronic structure of the austenitic and martensitic state of magnetocaloric Ni-Mn-In Heusler alloy films. Physical Review B, 2013, 88, .	3.2	28
29	Complex magnetic ordering as a driving mechanism of multifunctional properties of Heusler alloys from first principles. European Physical Journal B, 2013, 86, 1.	1.5	88
30	Ferromagnetic Heusler Alloy Thin Films: Electronic Properties and Magnetic Moment Formation. Springer Tracts in Modern Physics, 2013, , 119-162.	0.1	2
31	Oxygen-tuned magnetic coupling of Fe-phthalocyanine molecules to ferromagnetic Co films. Physical Review B, 2013, 88, .	3.2	41
32	First-principles investigations of caloric effects in ferroic materials. , 2012, , .		6
33	Induced magnetism on silicon in Fe ₃ Si quasi-Heusler compound. Physical Review B, 2012, 85, .	3.2	17
34	Phase Diagrams of Conventional and Inverse Functional Magnetic Heusler Alloys: New Theoretical and Experimental Investigations. Springer Series in Materials Science, 2012, , 19-47.	0.6	6
35	A first-principles study aided with Monte Carlo simulations of carbon doped iron-manganese alloys. European Physical Journal B, 2012, 85, 1.	1.5	6
36	A First-Principles Investigation of the Compositional Dependent Properties of Magnetic Shape Memory Heusler Alloys. Advanced Engineering Materials, 2012, 14, 530-546.	3.5	54

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37	Basic Properties of Magnetic Shape-Memory Materials from First-Principles Calculations. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2891-2900.	2.2	28
38	Graphene as a Reversible Spin Manipulator of Molecular Magnets. Physical Review Letters, 2011, 107, 257202.	7.8	68
39	Designing shape-memory Heusler alloys from first-principles. Applied Physics Letters, 2011, 99, .	3.3	91
40	Co ₂ +x</i>Fe _{1-x} /Si/MgO(001) Heusler alloys: Influence of off-stoichiometry and lattice distortion on the magnetic properties in bulk and on MgO(001). Journal of Applied Physics, 2011, 109, .	2.5	8
41	Ab-initio modeling of Fe-Mn based alloys and nanoclusters. Materials Research Society Symposia Proceedings, 2011, 1296, 1.	0.1	0
42	Induced magnetic Cu moments and magnetic ordering in Cu ₂ MnAl thin films on MgO(001) observed by XMCD. Journal Physics D: Applied Physics, 2011, 44, 415004.	2.8	9
43	Magnetic properties of ultrathin Fe ₃ Si films on GaAs(001). Journal of Physics: Conference Series, 2010, 200, 072105.	0.4	2
44	A comparative study of (Fe, Fe ₃ Si)/GaAs and Heusler/MgO for spintronics applications. Journal of Physics: Conference Series, 2010, 200, 072038.	0.4	1
45	First-principles and Monte Carlo study of magnetostructural transition and magnetocaloric properties of Ni ₂ Mn ₂ Si. Physical Review B, 2010, 81, .	3.2	119
46	Magnetic Phase Diagram of Transition Metal Doped ZnO from Density Functional Theory Calculations and Monte Carlo Simulations. Materials Research Society Symposia Proceedings, 2010, 1260, 1.	0.1	0
47	Local atomic order and element-specific magnetic moments of Fe ₃ Si films on MgO(001) and GaAs(001) substrates. Physical Review B, 2009, 80, .	3.2	35
48	Suitability of Fe/GaAs and (Co,Ni)Mn(Ga,Ge) for Spintronics Applications: An Ab Initio Study. IEEE Transactions on Magnetics, 2009, 45, 3965-3968.	2.1	4
49	Ab initio study of the interface properties of Fe/GaAs(110). Physical Review B, 2009, 80, .	3.2	7
50	Influence of domain wall scattering on the magnetoresistance of Co and Co ₈₀ Pt ₂₀ film systems. Physical Review B, 2008, 77, .	3.2	2
51	Domain Wall Formation in Ferromagnetic Layers: An Ab Initio Study. , 2008, , 269-280.		0
52	Electron Correlation Effects in the Fe Dimer. Journal of Physical Chemistry A, 2006, 110, 10799-10804.	2.5	18
53	Electric transport perpendicular to the planes. Physica Status Solidi (B): Basic Research, 2006, 243, 2632-2642.	1.5	1
54	Modelling the phase diagram of magnetic shape memory Heusler alloys. Journal Physics D: Applied Physics, 2006, 39, 865-889.	2.8	306

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55	Domain walls in systems with large magneto-crystalline anisotropy. Phase Transitions, 2006, 79, 827-837.	1.3	1
56	Theory of electric transport through Fe/V/Fe trilayers including the effect of impurities. Physica Status Solidi (B): Basic Research, 2005, 242, 271-277.	1.5	4
57	Magnetism and magnetoresistance in Fe/Cr/V/Cr/Fe. Phase Transitions, 2005, 78, 169-177.	1.3	0
58	First-principles calculations of the magnetoresistance of Fe/V trilayers and multilayers. Phase Transitions, 2005, 78, 827-837.	1.3	0
59	CPP transport in Fe/Cr/Fe trilayers with mn impurities: anab initiostudy. Phase Transitions, 2004, 77, 191-200.	1.3	2
60	Influence of the interlayer exchange coupling on the electric transport in Fe/Cr/Fe and Fe/Cr/T/Fe (T=Mn,V): Anab initiostudy. Physical Review B, 2003, 68, .	3.2	18
61	Ab Initio Study of Electric Transport and Interlayer Exchange Coupling in Fe-Si-Fe Systems. Phase Transitions, 2003, 76, 523-532.	1.3	3
62	Structure and Magnetism of Iron in Fe/Pd Multilayers. Phase Transitions, 2002, 75, 125-132.	1.3	0
63	Interlayer exchange coupling and perpendicular electric transport in Fe/Si/Fe trilayers. Physical Review B, 2002, 66, .	3.2	21
64	Ab initio study of CPP transport in Fe/Cr/Fe trilayers: influence of transition metal impurities. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	0
65	Perpendicular electric transport in Fe/X/Fe model heterostructures. Journal of Applied Physics, 2002, 91, 8777.	2.5	4
66	Aspects of magnetotunnelling drawn from <i>ab-initio</i>-type calculations. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 1027-1045.	0.6	5
67	Ab Initio Study of Iron and Cr/Fe(001). Phase Transitions, 2002, 75, 185-193.	1.3	7
68	Perpendicular transport in Fe/InP/Fe heterostructures. Journal of Magnetism and Magnetic Materials, 2002, 240, 180-182.	2.3	3
69	Ab initio investigation of intermixing effects of Cr on BCC Fe(001). Journal of Magnetism and Magnetic Materials, 2002, 240, 401-403.	2.3	4
70	Electric transport in Fe/ZnSe/Fe heterostructures. Physical Review B, 2001, 64, .	3.2	27
71	Understanding iron and its alloys from first principles. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 141-153.	0.6	17
72	The Invar Property of Elemental F.C.C. Co and Large Spontaneous Magnetostriction of B.C.C. Fe-Co. Physica Status Solidi (B): Basic Research, 1999, 214, 175-185.	1.5	13

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73	Ab initio full-potential study of the structural and magnetic phase stability of iron. Physical Review B, 1999, 60, 3839-3848.	3.2	337
74	Large-scale molecular-dynamics simulations of martensitic nucleation and shape-memory effects in transition metal alloys. Phase Transitions, 1998, 65, 79-108.	1.3	12
75	Ab Initio Investigations of Phonon Anomalies and Martensitic Transformations. , 1997, , 213-218.		2
76	Microscopic theory of the martensitic transition in Fe _{1-x} Ni _x . Physical Review B, 1993, 47, 5589-5596.	3.2	37
77	Fundamental Aspects of Magnetic Shape Memory Alloys: Insights from Ab Initio and Monte Carlo Studies. Materials Science Forum, 0, 635, 3-12.	0.3	41
78	Composition-Dependent Basics of Smart Heusler Materials from First-Principles Calculations. Materials Science Forum, 0, 684, 1-29.	0.3	39
79	Deposited Transition Metal-Centered Porphyrin and Phthalocyanine Molecules: Influence of the Substrates on the Magnetic Properties. , 0, , .		0
80	Tuning the magnetic phase diagram of Ni-Mn-Ga by Cr and Co substitution. Journal Physics D: Applied Physics, 0, , .	2.8	1