

# Kai Fauth

## List of Publications by Citations

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43  
papers

1,481  
citations

21  
h-index

38  
g-index

47  
ext. papers

1,555  
ext. citations

5.4  
avg, IF

3.59  
L-index

#	Paper	IF	Citations
43	Enhanced orbital magnetism in Fe(50)Pt(50) nanoparticles. <i>Physical Review Letters</i> , <b>2006</b> , 97, 117201	7.4	144
42	GdN thin films: Bulk and local electronic and magnetic properties. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	115
41	A Micellar Approach to Magnetic Ultrahigh-Density Data-Storage Media: Extending the Limits of Current Colloidal Methods. <i>Advanced Materials</i> , <b>2007</b> , 19, 406-410	24	98
40	Occupied and unoccupied electronic band structure of WSe <sub>2</sub> . <i>Physical Review B</i> , <b>1997</b> , 55, 10400-10411	3.3	73
39	Lowering of the L10 ordering temperature of FePt nanoparticles by He <sup>+</sup> ion irradiation. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 062508	3.4	63
38	Dual nature of magnetic dopants and competing trends in topological insulators. <i>Nature Communications</i> , <b>2016</b> , 7, 12027	17.4	61
37	Electronic and Magnetic Properties of Ligand-Free FePt Nanoparticles. <i>Advanced Materials</i> , <b>2005</b> , 17, 574-578	24	61
36	A guideline for atomistic design and understanding of ultrahard nanomagnets. <i>Nature Communications</i> , <b>2011</b> , 2, 528	17.4	60
35	Magnetism of FePt surface alloys. <i>Physical Review Letters</i> , <b>2009</b> , 102, 067207	7.4	45
34	One-Pot Synthesis of Core/Shell FeRh Nanoparticles. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 4624-4626	9.6	41
33	Magnetic moment of Fe in oxide-free FePt nanoparticles. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	39
32	Forcing ferromagnetic coupling between rare-earth-metal and 3d ferromagnetic films. <i>Physical Review Letters</i> , <b>2010</b> , 104, 156402	7.4	38
31	How well does total electron yield measure x-ray absorption in nanoparticles?. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3271-3273	3.4	36
30	From colloidal Co/CoO core/shell nanoparticles to arrays of metallic nanomagnets: surface modification and magnetic properties. <i>ChemPhysChem</i> , <b>2005</b> , 6, 2522-6	3.2	36
29	Local atomic order and element-specific magnetic moments of Fe <sub>3</sub> Si thin films on MgO(001) and GaAs(001) substrates. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	33
28	Vortex dynamics in Permalloy disks with artificial defects: Suppression of the gyrotropic mode. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 062506	3.4	33
27	Probing composition and interfacial interaction in oxide passivated core-shell iron nanoparticles by combining x-ray absorption and magnetic circular dichroism. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 399-403	3.5	33

26	Inhomogeneous alloying in FePt nanoparticles as a reason for reduced magnetic moments. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 336002	1.8	29
25	Core-shell iron/iron oxide nanoparticles: magnetic properties and interactions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 1485-1486	2.8	25
24	Enhancement of L10 phase formation in FePt nanoparticles by nitrogenization. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 4741-4745	3	21
23	Strong influence of defects on the electronic structure of Pt adatoms and clusters on graphite. <i>Surface Science</i> , <b>2003</b> , 529, 397-402	1.8	20
22	Formation of Highly Ordered Alloy Nanoparticles Based on Precursor-Filled Latex Spheres. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 1048-1054	9.6	19
21	Composition dependence of exchange stiffness in FePt alloys. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	15
20	Complex magnetic phase in submonolayer Fe stripes on Pt(997). <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	15
19	Photoelectron spectroscopy on Pt atoms and clusters deposited on C(0001). <i>European Physical Journal D</i> , <b>2004</b> , 29, 57-61	1.3	15
18	Magnetic properties of Fe nanoclusters on Cu(111) studied with X-ray magnetic circular dichroism. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 1170-1179	1.3	14
17	Effective exchange interaction in a quasi-two-dimensional self-assembled nanoparticle array. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	14
16	Magnetic and electronic properties of the interface between half metallic Fe <sub>3</sub> O <sub>4</sub> and semiconducting ZnO. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 081603	3.4	13
15	Induced magnetism on silicon in Fe <sub>3</sub> Si quasi-Heusler compound. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	13
14	Cluster surface interactions: small Fe clusters driven nonmagnetic on graphite. <i>Chemical Physics Letters</i> , <b>2004</b> , 392, 498-502	2.5	13
13	Fe <sub>3</sub> O <sub>4</sub> on ZnO: A spectroscopic study of film and interface properties. <i>Thin Solid Films</i> , <b>2011</b> , 520, 368-372	3.2	10
12	Identification of extrinsic Mn contributions in Ga <sub>1-x</sub> Mn <sub>x</sub> As by field-dependent magnetic circular X-ray dichroism. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2005</b> , 144-147, 789-792	1.7	10
11	Structural analysis of the intermetallic surface compound CePt <sub>5</sub> /Pt(111). <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	9
10	Electronic tuneability of a structurally rigid surface intermetallic and Kondo lattice: CePt <sub>5</sub> /Pt(111). <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	8
9	X-ray absorption measurements on nanoparticle systems: self-assembled arrays and dispersions. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 474007	3	8

8	Superparamagnetism in small Fe clusters on Cu(111). <i>European Physical Journal D</i> , <b>2007</b> , 45, 535-537	1.3	6
7	Surface termination of CePt <sub>5</sub> /Pt(111): The key to chemical inertness. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	5
6	Nanoscaled alloy formation from self-assembled elemental Co nanoparticles on top of Pt films. <i>Beilstein Journal of Nanotechnology</i> , <b>2011</b> , 2, 473-85	3	5
5	Exploring small energy scales with x-ray absorption and dichroism. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	4
4	MAGNETIC CORE SHELL NANOPARTICLES CHARACTERIZED BY X-RAY ABSORPTION AND MAGNETIC CIRCULAR DICHOISM. <i>Modern Physics Letters B</i> , <b>2007</b> , 21, 1179-1187	1.6	4
3	SPATIALLY RESOLVED MAGNETIC RESPONSE IN CORE SHELL NANOPARTICLES. <i>Modern Physics Letters B</i> , <b>2007</b> , 21, 1197-1200	1.6	4
2	Time-resolved X-ray microscopy of nanoparticle aggregates under oscillatory shear. <i>Journal of Synchrotron Radiation</i> , <b>2009</b> , 16, 307-9	2.4	3
1	Hole doping in correlated CT insulators: Li <sub>x</sub> Ni <sub>1-x</sub> O. <i>Journal of Low Temperature Physics</i> , <b>1995</b> , 99, 421-423	1.3	