

Carolyn Schmitz-Antoniak

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.

55
papers

1,121
citations

17
h-index

32
g-index

57
ext. papers

1,223
ext. citations

3.9
avg, IF

3.92
L-index

#	Paper	IF	Citations
55	Insertion of V Ions into the Polyoxotungstate Archetype {AsW}. <i>Inorganic Chemistry</i> , 2021 , 60, 8437-8441	5.1	1
54	Element-specific contributions to improved magnetic heating of theranostic CoFeO nanoparticles decorated with Pd. <i>Scientific Reports</i> , 2021 , 11, 15843	4.9	0
53	Evolution of the magnetic hyperfine field profiles in an ion-irradiated FeAl film measured by nuclear resonant reflectivity. <i>Journal of Synchrotron Radiation</i> , 2021 , 28, 1535-1543	2.4	0
52	Sensing alterations of the local environment of 3d, 4d, and 4f central ions in polyoxopalladates with soft X-ray magnetic dichroisms. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 514, 167063	2.8	0
51	Soft X-Ray Magnetic Circular Dichroism of Vanadium in the Metal Insulator Two-Phase Region of Paramagnetic V ₂ O ₃ Doped with 1.1% Chromium. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900456	1.2	0
50	Structural perspective on revealing heat dissipation behavior of CoFeO-Pd nanohybrids: great promise for magnetic fluid hyperthermia. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 26728-26741	3.6	1
49	Intramolecular crossover from unconventional diamagnetism to paramagnetism of palladium ions probed by soft X-ray magnetic circular dichroism. <i>Communications Chemistry</i> , 2020 , 3,	6.3	1
48	Tunable Magnetic Phases at FeO/SrTiO ₃ Oxide Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7576-7583	9.5	8
47	Polyoxopalladates as Prototype Molecular Hydrogen Uptake Systems and Novel In situ Hydrogen Detectors on the Nanoscale. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 448-455	2.3	3
46	FEM analysis of a multiferroic nanocomposite: comparison of experimental data and numerical simulation. <i>Archive of Applied Mechanics</i> , 2019 , 89, 1157-1170	2.2	1
45	Microscopic nonequilibrium energy transfer dynamics in a photoexcited metal/insulator heterostructure. <i>Physical Review B</i> , 2019 , 100,	3.3	10
44	Magnetic-Plasmonic Heterodimer Nanoparticles: Designing Contemporarily Features for Emerging Biomedical Diagnosis and Treatments. <i>Nanomaterials</i> , 2019 , 9,	5.4	12
43	Suppression of the Verwey Transition by Charge Trapping. <i>Annalen Der Physik</i> , 2018 , 530, 1700363	2.6	6
42	Rietveld structure refinement to optimize the correlation between cation disordering and magnetic features of CoFe ₂ O ₄ nanoparticles. <i>New Journal of Chemistry</i> , 2018 , 42, 3050-3062	3.6	6
41	Local probe of irradiation-induced structural changes and orbital magnetism in Fe ₆₀ Al ₄₀ thin films via an order-disorder phase transition. <i>Physical Review B</i> , 2018 , 98,	3.3	8
40	Host-Guest-Induced Environment Tuning of 3d Ions in a Polyoxopalladate Matrix. <i>Chemistry - A European Journal</i> , 2018 , 24, 17767-17778	4.8	12
39	Statistical approach of synthesize CoFe ₂ O ₄ nanoparticles to optimize their characteristics using response surface methodology. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 432, 362-372	2.8	9

38	Magnetism in a graphene-4f β d hybrid system. <i>Physical Review B</i> , 2017 , 95,	3.3	11
37	Reversed ageing of Fe ₃ O ₄ nanoparticles by hydrogen plasma. <i>Scientific Reports</i> , 2016 , 6, 20897	4.9	9
36	Magnetoelectric coupling on multiferroic cobalt ferrite-Barium titanate ceramic composites with different connectivity schemes. <i>Acta Materialia</i> , 2015 , 90, 1-9	8.4	78
35	Measuring the magnetoelectric effect across scales. <i>GAMM Mitteilungen</i> , 2015 , 38, 25-74	1.8	22
34	X-ray absorption spectroscopy on magnetic nanoscale systems for modern applications. <i>Reports on Progress in Physics</i> , 2015 , 78, 062501	14.4	13
33	The dipole moment of the spin density as a local indicator for phase transitions. <i>Scientific Reports</i> , 2014 , 4, 5760	4.9	17
32	Interfacial Magnetoelectric Switching in Multiferroic Heterostructures. <i>Materials Science Forum</i> , 2014 , 783-786, 1623-1627	0.4	2
31	Room temperature switching of a neutral molecular iron(II) complex. <i>Chemical Communications</i> , 2013 , 49, 10986-8	5.8	48
30	Iron porphyrin molecules on Cu(001): Influence of adlayers and ligands on the magnetic properties. <i>Physical Review B</i> , 2013 , 87,	3.3	27
29	Electric in-plane polarization in multiferroic CoFe ₂ O ₄ /BaTiO ₃ nanocomposite tuned by magnetic fields. <i>Nature Communications</i> , 2013 , 4, 2051	17.4	112
28	On the use of amine-borane complexes to synthesize iron nanoparticles. <i>Chemistry - A European Journal</i> , 2013 , 19, 6021-6	4.8	10
27	Oxygen-tuned magnetic coupling of Fe-phthalocyanine molecules to ferromagnetic Co films. <i>Physical Review B</i> , 2013 , 88,	3.3	32
26	Characterisation of FePt nanomagnets by X-ray absorption spectroscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 1298-1304	1.6	3
25	Induced magnetism on silicon in Fe ₃ Si quasi-Heusler compound. <i>Physical Review B</i> , 2012 , 85,	3.3	13
24	Effect of silica capping on the oxidation of Fe ₃ O ₄ nanoparticles in dispersion revealed by x-ray absorption spectroscopy. <i>Physical Review B</i> , 2012 , 85,	3.3	11
23	A guideline for atomistic design and understanding of ultrahard nanomagnets. <i>Nature Communications</i> , 2011 , 2, 528	17.4	60
22	Extended X-ray absorption fine structure of bimetallic nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2011 , 2, 237-51	3	23
21	Co _{2+x} 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). <i>Journal of Applied Physics</i> , 2011 , 109, 07E128	2.5	6

20	Textured growth of the high moment material Gd(0 0 0 1)/Cr(0 0 1)/Fe(0 0 1). <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 265004	3	10
19	Induced magnetic Cu moments and magnetic ordering in Cu ₂ MnAl thin films on MgO(0 0 1) observed by XMCD. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 415004	3	9
18	Composition dependence of exchange stiffness in FePt _{1-x} alloys. <i>Physical Review B</i> , 2010 , 82,	3.3	15
17	X-ray absorption measurements on nanoparticle systems: self-assembled arrays and dispersions. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 474007	3	8
16	Forcing ferromagnetic coupling between rare-earth-metal and 3d ferromagnetic films. <i>Physical Review Letters</i> , 2010 , 104, 156402	7.4	38
15	X-Ray Magnetic Dichroism. <i>Springer Proceedings in Physics</i> , 2010 , 145-167	0.2	1
14	Magnetic properties of ultrathin Fe ₃ Si films on GaAs(001). <i>Journal of Physics: Conference Series</i> , 2010 , 200, 072105	0.3	2
13	Local atomic order and element-specific magnetic moments of Fe ₃ Si thin films on MgO(001) and GaAs(001) substrates. <i>Physical Review B</i> , 2009 , 80,	3.3	33
12	Correlation of magnetic moments and local structure of FePt nanoparticles. <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012118	0.3	8
11	Inhomogeneous alloying in FePt nanoparticles as a reason for reduced magnetic moments. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 336002	1.8	29
10	Lattice expansion in nonoxidized FePt nanoparticles: X-ray absorption measurements. <i>Physical Review B</i> , 2008 , 78,	3.3	12
9	FeSi diffusion barriers in Fe/FeSi/Si/FeSi/Fe multilayers and oscillatory antiferromagnetic exchange coupling. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 425205	1.8	7
8	Magnetic moment of Fe in oxide-free FePt nanoparticles. <i>Physical Review B</i> , 2007 , 76,	3.3	39
7	MAGNETISM AT THE NANOSCALE: THE CASE OF FePt. <i>Modern Physics Letters B</i> , 2007 , 21, 1111-1131	1.6	31
6	Enhancement of L10 phase formation in FePt nanoparticles by nitrogenization. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 4741-4745	3	21
5	Enhanced orbital magnetism in Fe(50)Pt(50) nanoparticles. <i>Physical Review Letters</i> , 2006 , 97, 117201	7.4	144
4	Magnetic anisotropy in nanoscaled materials probed by ferromagnetic resonance. <i>Phase Transitions</i> , 2006 , 79, 793-813	1.3	16
3	Multifrequency magnetic resonance and blocking behavior of FePt _{1-x} nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 2968-2973	1.6	15

- 2 Magnetic anisotropy and its temperature dependence in iron-rich Fe x Pt 1 - x nanoparticles. *Europhysics Letters*, **2005**, 70, 250-256 1.6 69
- 1 Composition-dependent ratio of orbital-to-spin magnetic moment in structurally disordered FexPt1-x nanoparticles. *Physical Review B*, **2004**, 69, 3-3 39