

Carolyn Schmitz-Antoniak

List of Publications by Year in descending order

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56
papers

1,315
citations

448610
19
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406436
35
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57
all docs

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docs citations

57
times ranked

2328
citing authors

#	ARTICLE	IF	CITATIONS
1	Insertion of VIV Ions into the Polyoxotungstate Archetype {As ₄ W ₄₀ }. Inorganic Chemistry, 2021, 60, 8437-8441.	1.9	4
2	Element-specific contributions to improved magnetic heating of theranostic CoFe ₂ O ₄ nanoparticles decorated with Pd. Scientific Reports, 2021, 11, 15843.	1.6	5
3	Evolution of the magnetic hyperfine field profiles in an ion-irradiated Fe ₆₀ Al ₄₀ film measured by nuclear resonant reflectivity. Journal of Synchrotron Radiation, 2021, 28, 1535-1543.	1.0	3
4	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. Physica Status Solidi (B): Basic Research, 2020, 257, 1900456.	0.7	2
5	Structural perspective on revealing heat dissipation behavior of CoFe ₂ O ₄ -Pd nanohybrids: great promise for magnetic fluid hyperthermia. Physical Chemistry Chemical Physics, 2020, 22, 26728-26741.	1.3	4
6	Intramolecular crossover from unconventional diamagnetism to paramagnetism of palladium ions probed by soft X-ray magnetic circular dichroism. Communications Chemistry, 2020, 3, .	2.0	1
7	Sensing alterations of the local environment of 3d, 4d, and 4f central ions in polyoxopalladates with soft X-ray magnetic dichroisms. Journal of Magnetism and Magnetic Materials, 2020, 514, 167063.	1.0	1
8	Microscopic nonequilibrium energy transfer dynamics in a photoexcited metal/insulator heterostructure. Physical Review B, 2019, 100, .	1.1	18
9	Tunable Magnetic Phases at Fe ₃ O ₄ /SrTiO ₃ Oxide Interfaces. ACS Applied Materials & Interfaces, 2019, 11, 7576-7583.	4.0	17
10	Polyoxopalladates as Prototype Molecular Hydrogen Uptake Systems and Novel In situ Hydrogen Detectors on the Nanoscale. European Journal of Inorganic Chemistry, 2019, 2019, 448-455.	1.0	4
11	FEM analysis of a multiferroic nanocomposite: comparison of experimental data and numerical simulation. Archive of Applied Mechanics, 2019, 89, 1157-1170.	1.2	2
12	Magnetic-Plasmonic Heterodimer Nanoparticles: Designing Contemporarily Features for Emerging Biomedical Diagnosis and Treatments. Nanomaterials, 2019, 9, 97.	1.9	18
13	Suppression of the Verwey Transition by Charge Trapping. Annalen Der Physik, 2018, 530, 1700363.	0.9	6
14	Rietveld structure refinement to optimize the correlation between cation disordering and magnetic features of CoFe ₂ O ₄ nanoparticles. New Journal of Chemistry, 2018, 42, 3050-3062.	1.4	7
15	Host-Guest-Induced Environment Tuning of 3d Ions in a Polyoxopalladate Matrix. Chemistry - A European Journal, 2018, 24, 17767-17778.	1.7	14
16	Local probe of irradiation-induced structural changes and orbital magnetism in $\text{Fe}_{60}\text{Al}_{40}$ thin films via an order-disorder phase transition. Physical Review B, 2018, 98, .	1.1	14
17	Statistical approach of synthesizing CoFe ₂ O ₄ nanoparticles to optimize their characteristics using response surface methodology. Journal of Magnetism and Magnetic Materials, 2017, 432, 362-372.	1.0	9
18	Magnetism in a graphene-4f ³ 3d hybrid system. Physical Review B, 2017, 95, .	1.1	22

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19	Reversed ageing of Fe ₃ O ₄ nanoparticles by hydrogen plasma. Scientific Reports, 2016, 6, 20897.	1.6	12
20	X-ray absorption spectroscopy on magnetic nanoscale systems for modern applications. Reports on Progress in Physics, 2015, 78, 062501.	8.1	15
21	Magnetoelectric coupling on multiferroic cobalt ferrite-barium titanate ceramic composites with different connectivity schemes. Acta Materialia, 2015, 90, 1-9.	3.8	97
22	Measuring the magnetoelectric effect across scales. GAMM Mitteilungen, 2015, 38, 25-74.	2.7	26
23	The dipole moment of the spin density as a local indicator for phase transitions. Scientific Reports, 2014, 4, 5760.	1.6	20
24	Room temperature switching of a neutral molecular iron(ii) complex. Chemical Communications, 2013, 49, 10986.	2.2	55
25	Iron porphyrin molecules on Cu(001): Influence of adlayers and ligands on the magnetic properties. Physical Review B, 2013, 87, .	1.1	33
26	Electric in-plane polarization in multiferroic CoFe ₂ O ₄ /BaTiO ₃ nanocomposite tuned by magnetic fields. Nature Communications, 2013, 4, 2051.	5.8	126
27	On the Use of Amine-Borane Complexes To Synthesize Iron Nanoparticles. Chemistry - A European Journal, 2013, 19, 6021-6026.	1.7	10
28	Oxygen-tuned magnetic coupling of Fe-phthalocyanine molecules to ferromagnetic Co films. Physical Review B, 2013, 88, .	1.1	41
29	Characterisation of FePt nanomagnets by X-ray absorption spectroscopy (Phys. Status Solidi A 74(2013)). Physica Status Solidi (A) Applications and Materials Science, 2013, 210, .	0.8	0
30	Characterisation of FePt nanomagnets by X-ray absorption spectroscopy. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1298-1304.	0.8	3
31	Induced magnetism on silicon in Fe ₃ Si quasi-Heusler compound. Physical Review B, 2012, 85, .	1.1	17
32	Effect of silica capping on the oxidation of Fe ₃ O ₄ nanoparticles in dispersion revealed by x-ray absorption spectroscopy. Physical Review B, 2012, 85, .	1.1	12
33	A guideline for atomistic design and understanding of ultrahard nanomagnets. Nature Communications, 2011, 2, 528.	5.8	67
34	Extended X-ray absorption fine structure of bimetallic nanoparticles. Beilstein Journal of Nanotechnology, 2011, 2, 237-251.	1.5	23
35	Co ₂ 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, .	1.1	8
36	Textured growth of the high moment material Gd _{1-x} Cr _x /Fe _{1-x} . Journal Physics D: Applied Physics, 2011, 44, 265004.	1.3	10

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37	Induced magnetic Cu moments and magnetic ordering in $\text{Cu}_{2\text{MnAl}}$ thin films on MgO observed by XMCD. Journal Physics D: Applied Physics, 2011, 44, 415004.	1.3	9
38	Magnetic properties of ultrathin Fe_3Si films on $\text{GaAs}(001)$. Journal of Physics: Conference Series, 2010, 200, 072105.	0.3	2
39	Composition dependence of exchange stiffness in $\text{Fe}_{1-x}\text{Mn}_x$ films. Physical Review B, 2010, 82, .	1.1	18
40	X-ray absorption measurements on nanoparticle systems: self-assembled arrays and dispersions. Journal Physics D: Applied Physics, 2010, 43, 474007.	1.3	9
41	Forcing Ferromagnetic Coupling Between Rare-Earth-Metal and $\text{Fe}_{3\text{Mn}}$ Ferromagnetic Films. Physical Review Letters, 2010, 104, 156402.	2.9	42
42	X-Ray Magnetic Dichroism. Springer Proceedings in Physics, 2010, , 145-167.	0.1	2
43	Local atomic order and element-specific magnetic moments of $\text{Fe}_{3\text{Mn}}$ films on $\text{MgO}(001)$ and $\text{GaAs}(001)$ substrates. Physical Review B, 2009, 80, .	1.1	35
44	Correlation of magnetic moments and local structure of FePt nanoparticles. Journal of Physics: Conference Series, 2009, 190, 012118.	0.3	11
45	Inhomogeneous alloying in FePt nanoparticles as a reason for reduced magnetic moments. Journal of Physics Condensed Matter, 2009, 21, 336002.	0.7	32
46	FeSi diffusion barriers in $\text{Fe}/\text{FeSi}/\text{Si}/\text{FeSi}/\text{Fe}$ multilayers and oscillatory antiferromagnetic exchange coupling. Journal of Physics Condensed Matter, 2008, 20, 425205.	0.7	9
47	Lattice expansion in nonoxidized FePt nanoparticles: X-ray absorption measurements. Physical Review B, 2008, 78, .	1.1	12
48	Magnetic moment of Fe in oxide-free FePt nanoparticles. Physical Review B, 2007, 76, .	1.1	41
49	MAGNETISM AT THE NANOSCALE: THE CASE OF FePt . Modern Physics Letters B, 2007, 21, 1111-1131.	1.0	34
50	Magnetic anisotropy in nanoscaled materials probed by ferromagnetic resonance. Phase Transitions, 2006, 79, 793-813.	0.6	16
51	Multifrequency magnetic resonance and blocking behavior of $\text{FePt}_{1-x}\text{N}_x$ nanoparticles. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2968-2973.	0.8	16
52	Enhancement of L_{10} phase formation in FePt nanoparticles by nitrogenization. Journal Physics D: Applied Physics, 2006, 39, 4741-4745.	1.3	22
53	Enhanced Orbital Magnetism in $\text{Fe}_{50}\text{Pt}_{50}$ Nanoparticles. Physical Review Letters, 2006, 97, 117201.	2.9	150
54	Magnetic anisotropy and its temperature dependence in iron-rich $\text{Fe}_{1-x}\text{Pt}_x$ nanoparticles. Europhysics Letters, 2005, 70, 250-256.	0.7	79

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55	Composition-dependent ratio of orbital-to-spin magnetic moment in structurally disordered FePt nanoparticles. Physical Review B, 2004, 69, .	1.1	48
56	Interfacial Magnetoelectric Switching in Multiferroic Heterostructures. Materials Science Forum, 0, 783-786, 1623-1627.	0.3	2