

David J Sellmyer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2457073/publications.pdf>

Version: 2024-02-01

51
papers

1,194
citations

516710

16
h-index

377865

34
g-index

52
all docs

52
docs citations

52
times ranked

1465
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic and structural properties of Mn _{1-x} Ni _x Sn (<i>x</i> = Mn, Fe, Co). AIP Advances, 2021, 11, .	1.3	4
2	Magnetic and electron transport properties of $C_{1-x}Mn_x$ nanomagnets. Physical Review Materials, 2021, 5, .	2.4	10
3	Ferromagnetic L1 ₀ -Structured CoPt Nanoparticles for Permanent Magnets and Low Pt-Based Catalysts. ACS Applied Nano Materials, 2021, 4, 9231-9240.	5.0	4
4	Magnetism and topological Hall effect in antiferromagnetic Ru ₂ MnSn-based Heusler compounds. Journal of Magnetism and Magnetic Materials, 2021, 537, 168104.	2.3	5
5	Peripheral chiral spin textures and topological Hall effect in CoSi nanomagnets. Physical Review Materials, 2021, 5, .	2.4	2
6	Synergistic computational and experimental discovery of novel magnetic materials. Molecular Systems Design and Engineering, 2020, 5, 1098-1117.	3.4	13
7	Chiral Magnetism and High-Temperature Skyrmions in B20-Ordered Co-Si. Physical Review Letters, 2020, 124, 057201.	7.8	31
8	Discovering rare-earth-free magnetic materials through the development of a database. Physical Review Materials, 2020, 4, .	2.4	11
9	Anisotropy and orbital moment in Sm-Co permanent magnets. Physical Review B, 2019, 100, .	3.2	25
10	Structure and Magnetism of Co ₂ Ge Nanoparticles. Nanomaterials, 2019, 9, 1371.	4.1	1
11	Quantum phase transition and ferromagnetism in $C_{1-x}Mn_x$. Physical Review B, 2019, 99, .	3.2	4
12	Enhancing the Ordering and Coercivity of L1 ₀ FePt Nanostructures with Bismuth Additives for Applications Ranging from Permanent Magnets to Catalysts. ACS Applied Nano Materials, 2019, 2, 3146-3153.	5.0	20
13	High energy product of MnBi by field annealing and Sn alloying. APL Materials, 2019, 7, 121111.	5.1	16
14	Effect of size confinement on skyrmionic properties of MnSi nanomagnets. Nanoscale, 2018, 10, 9504-9508.	5.6	10
15	Texture development and coercivity enhancement in cast alnico 9 magnets. AIP Advances, 2018, 8, 056215.	1.3	2
16	Current progress and future challenges in rare-earth-free permanent magnets. Acta Materialia, 2018, 158, 118-137.	7.9	351
17	Magnetism of new metastable cobalt-nitride compounds. Nanoscale, 2018, 10, 13011-13021.	5.6	24
18	Anti-site mixing and magnetic properties of Fe ₃ Co ₃ Nb ₂ studied via neutron powder diffraction. Journal Physics D: Applied Physics, 2017, 50, 025002.	2.8	6

#	ARTICLE	IF	CITATIONS
19	On orientation memory in high density polyethylene “ carbon nanofibers composites. E-Polymers, 2017, 17, 303-310.	3.0	11
20	Magnetism of Nanomaterials. , 2017, , 29-80.		0
21	Controlling the microstructure and associated magnetic properties of Ni _{0.2} Mn _{3.2} Ga _{0.6} melt-spun ribbons by annealing. AIP Advances, 2017, 7, 056230.	1.3	0
22	Low-temperature FCC to L1 phase transformation in CoPt(Bi) nanoparticles. AIP Advances, 2016, 6, .	1.3	1
23	Structure and magnetism of new rare-earth-free intermetallic compounds: Fe _{3+x} Co ₃ Ti ₂ (0 ≤ x ≤ 3). APL Materials, 2016, 4, .	5.1	8
24	High-coercivity magnetism in nanostructures with strong easy-plane anisotropy. Applied Physics Letters, 2016, 108, 152406.	3.3	25
25	Crystal structure and magnetic properties of new Fe ₃ Co ₃ X ₂ (X = Ti, Nb) intermetallic compounds. Journal Physics D: Applied Physics, 2016, 49, 175002.	2.8	11
26	Effect of boron doping on nanostructure and magnetism of rapidly quenched Zr ₂ Co ₁₁ -based alloys. AIP Advances, 2016, 6, 056002.	1.3	12
27	Mn ₅ Si ₃ Nanoparticles: Synthesis and Size-Induced Ferromagnetism. Nano Letters, 2016, 16, 1132-1137.	9.1	33
28	Interface-Induced Spin Polarization in Graphene on Chromia. IEEE Magnetics Letters, 2016, 7, 1-4.	1.1	14
29	High-energy product MnBi films with controllable anisotropy. Physica Status Solidi (B): Basic Research, 2015, 252, 1934-1939.	1.5	36
30	Magnetism of FePt Nanoclusters in Polyimide. Journal of Nanomaterials, 2015, 2015, 1-10.	2.7	1
31	Unusual spin correlations in a nanomagnet. Applied Physics Letters, 2015, 106, .	3.3	24
32	Adjusting magnetic nanostructures for high-performance magnetic sensors. Journal of Applied Physics, 2014, 115, .	2.5	11
33	Magneto-Electric Control of Surface Anisotropy and Nucleation Modes in L1 ₀ -CoPt Thin Films. IEEE Magnetics Letters, 2014, 5, 1-4.	1.1	2
34	Magnetic nanostructuring and overcoming Brown's paradox to realize extraordinary high-temperature energy products. Scientific Reports, 2014, 4, 6265.	3.3	56
35	Novel Nanostructured Rare-Earth-Free Magnetic Materials with High Energy Products. Advanced Materials, 2013, 25, 6090-6093.	21.0	128
36	Magnetic Materials: Novel Nanostructured Rare-Earth-Free Magnetic Materials with High Energy Products (Adv. Mater. 42/2013). Advanced Materials, 2013, 25, 6089-6089.	21.0	1

#	ARTICLE	IF	CITATIONS
37	Coercivity Enhancement in $\text{Zr}_{2}\text{Co}_{11}$ -Based Nanocrystalline Materials Due to Mo Addition. IEEE Transactions on Magnetics, 2012, 48, 3603-3605.	2.1	31
38	Fourier transform infrared spectroscopy and wide-angle X-ray scattering: Investigations on polypropylene-vapor-grown carbon nanofiber composites. Journal of Applied Polymer Science, 2012, 125, 353-360.	2.6	12
39	Ferromagnetic resonance on Ni nanowire arrays. Journal of Materials Research, 2011, 26, 2169-2174.	2.6	16
40	Synthesis of Monodisperse TiO_2 -Paraffin Core-Shell Nanoparticles for Improved Dielectric Properties. ACS Nano, 2010, 4, 1893-1900.	14.6	107
41	Mesoporous Ferromagnetic MPt@Silica/Carbon (M = Fe, Co, Ni) Composites As Advanced Bifunctional Catalysts. Chemistry of Materials, 2010, 22, 1624-1632.	6.7	27
42	Magnetic noise in a low-power picotesla magnetoresistive sensor. , 2009, , .		11
43	Spectroscopic investigations on polypropylene-carbon nanofiber composites. I. Raman and electron spin resonance spectroscopy. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 1644-1652.	2.1	16
44	Anisotropic PrCo_5 Nanoparticles by Surfactant-Assisted Ball Milling. IEEE Transactions on Magnetics, 2009, 45, 4417-4419.	2.1	39
45	Nanostructure and magnetic properties of $\text{L}_{10}\text{FePt:X}$ films. Journal of Applied Physics, 2008, 103, 07D502.	2.5	12
46	Continuous/Cluster-Pinned Recording Media. IEEE Transactions on Magnetics, 2007, 43, 2163-2165.	2.1	6
47	Multiscale Phenomena in Bruggeman Composites. Materials Research Society Symposia Proceedings, 2004, 851, 7.	0.1	3
48	Nanomagnetic Structures: Fabrication and Interactions. Materials Research Society Symposia Proceedings, 2004, 853, 87.	0.1	1
49	Mechanically milled nanostructured $(\text{Sm,Pr})_{12.5}\text{Co}_{85.5}\text{Zr}_2$ magnets with TbCu_7 structure. Journal of Applied Physics, 2002, 91, 8162.	2.5	4
50	The Magnetism-Nanostructure Interface in Advanced Magnetic Materials. Microscopy and Microanalysis, 2002, 8, 366-367.	0.4	0
51	Effect of Iron Substitution on the High-temperature Properties of $\text{Sm}(\text{Co,Cu,Ti})_z$ Permanent Magnets. Materials Research Society Symposia Proceedings, 2001, 674, 1.	0.1	0