

Philipp Bender

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.

40
papers

759
citations

18
h-index

27
g-index

43
ext. papers

934
ext. citations

4.1
avg. IF

4.22
L-index

#	Paper	IF	Citations
40	Robust approaches for model-free small-angle scattering data analysis. <i>Journal of Applied Crystallography</i> , 2022 , 55, 586-591	3.8	0
39	Neutron study of magnetic correlations in rare-earth-free Mn-Bi magnets. <i>Physical Review Materials</i> , 2021 , 5,	3.2	1
38	Revealing defect-induced spin disorder in nanocrystalline Ni. <i>Physical Review Materials</i> , 2021 , 5,	3.2	5
37	Low-Temperature Growth of AlN Films on Magnetostrictive Foils for High-Magnetoelectric-Response Thin-Film Composites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30874-30884	9.5	3
36	Unraveling Nanostructured Spin Textures in Bulk Magnets. <i>Small Science</i> , 2021 , 1, 2000003		2
35	Advanced analysis of magnetic nanoflower measurements to leverage their use in biomedicine. <i>Nanoscale Advances</i> , 2021 , 3, 1633-1645	5.1	6
34	Identifying the presence of magnetite in an ensemble of iron-oxide nanoparticles: a comparative neutron diffraction study between bulk and nanoscale. <i>Nanoscale Advances</i> , 2021 , 3, 3491-3496	5.1	1
33	Embracing Defects and Disorder in Magnetic Nanoparticles. <i>Advanced Science</i> , 2021 , 8, 2002682	13.6	13
32	Probing the stability and magnetic properties of magnetosome chains in freeze-dried magnetotactic bacteria. <i>Nanoscale Advances</i> , 2020 , 2, 1115-1121	5.1	8
31	Magnetic structure factor of correlated moments in small-angle neutron scattering. <i>Physical Review B</i> , 2020 , 101,	3.3	3
30	The benefits of a Bayesian analysis for the characterization of magnetic nanoparticles. <i>Nanotechnology</i> , 2020 , 31, 435704	3.4	3
29	Toward Understanding Complex Spin Textures in Nanoparticles by Magnetic Neutron Scattering. <i>Physical Review Letters</i> , 2020 , 125, 117201	7.4	4
28	Magnetic correlations in polycrystalline Tb _{0.15} Co _{0.85} . <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 335302		1
27	Revealing a masked Verwey transition in nanoparticles of coexisting Fe-oxide phases.. <i>RSC Advances</i> , 2020 , 11, 390-396	3.7	1
26	Size-dependent spatial magnetization profile of manganese-zinc ferrite Mn _{0.2} Zn _{0.2} Fe _{2.6} O ₄ nanoparticles. <i>Physical Review B</i> , 2019 , 100,	3.3	20
25	Supraferromagnetic correlations in clusters of magnetic nanoflowers. <i>Applied Physics Letters</i> , 2019 , 115, 132406	3.4	21
24	Evidence for the formation of nanoprecipitates with magnetically disordered regions in bulk Ni ₅₀ Mn ₄₅ In ₅ Heusler alloys. <i>Physical Review B</i> , 2019 , 99,	3.3	12

23	Morphological and crystallographic orientation of hematite spindles in an applied magnetic field. <i>Nanoscale</i> , 2019 , 11, 7149-7156	7.7	12
22	Effect of grain-boundary diffusion process on the geometry of the grain microstructure of NdFeB nanocrystalline magnets. <i>Physical Review Materials</i> , 2019 , 3,	3.2	4
21	Using the singular value decomposition to extract 2D correlation functions from scattering patterns. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019 , 75, 766-771	1.7	5
20	Microstructural-defect-induced Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2019 , 99,	3.3	13
19	Configuration of the magnetosome chain: a natural magnetic nanoarchitecture. <i>Nanoscale</i> , 2018 , 10, 7407-7419	7.7	34
18	Relating Magnetic Properties and High Hyperthermia Performance of Iron Oxide Nanoflowers. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3068-3077	3.8	78
17	Influence of clustering on the magnetic properties and hyperthermia performance of iron oxide nanoparticles. <i>Nanotechnology</i> , 2018 , 29, 425705	3.4	19
16	Dipolar-coupled moment correlations in clusters of magnetic nanoparticles. <i>Physical Review B</i> , 2018 , 98,	3.3	31
15	Structural and magnetic properties of multi-core nanoparticles analysed using a generalised numerical inversion method. <i>Scientific Reports</i> , 2017 , 7, 45990	4.9	32
14	Distribution functions of magnetic nanoparticles determined by a numerical inversion method. <i>New Journal of Physics</i> , 2017 , 19, 073012	2.9	33
13	Influence of dipolar interactions on the angular-dependent coercivity of nickel nanocylinders. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 145003	3	15
12	Excitation of Ni nanorod colloids in oscillating magnetic fields: a new approach for nanosensing investigated by TISANE. <i>Nanoscale</i> , 2015 , 7, 17122-30	7.7	20
11	Directing the orientational alignment of anisotropic magnetic nanoparticles using dynamic magnetic fields. <i>Faraday Discussions</i> , 2015 , 181, 449-61	3.6	22
10	Magnetic and geometric anisotropy in particle-crosslinked ferrohydrogels. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1290-8	3.6	34
9	Magnetization measurements reveal the local shear stiffness of hydrogels probed by ferromagnetic nanorods. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 372, 187-194	2.8	14
8	Nanoscale rheometry of viscoelastic soft matter by oscillating field magneto-optical transmission using ferromagnetic nanorod colloidal probes. <i>Journal of Applied Physics</i> , 2014 , 116, 184305	2.5	26
7	Determination of the shear modulus of gelatine hydrogels by magnetization measurements using dispersed nickel nanorods as mechanical probes. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 346, 152-160	2.8	20
6	Synthesis and characterizations of manganese ferrites for hyperthermia applications. <i>Materials Chemistry and Physics</i> , 2013 , 143, 305-310	4.4	90

5	Shear modulus determination in model hydrogels by means of elongated magnetic nanopores. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1772-1781	2.6	30
4	Rotational diffusion of magnetic nickel nanorods in colloidal dispersions. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 325103	1.8	34
3	Synthesis and characterization of uniaxial ferrogels with Ni nanorods as magnetic phase. <i>Journal of Magnetism and Magnetic Materials</i> , 2011 , 323, 2055-2063	2.8	51
2	Magnetic-field-dependent optical transmission of nickel nanorod colloidal dispersions. <i>Journal of Applied Physics</i> , 2009 , 106, 114301	2.5	36
1	Using small-angle scattering to guide functional magnetic nanoparticle design. <i>Nanoscale Advances</i> ,	5.1	2