

# Philipp Bender

## List of Publications by Citations

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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	Synthesis and characterizations of manganese ferrites for hyperthermia applications. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 143, 305-310	4.4	90
39	Relating Magnetic Properties and High Hyperthermia Performance of Iron Oxide Nanoflowers. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 3068-3077	3.8	78
38	Synthesis and characterization of uniaxial ferrogels with Ni nanorods as magnetic phase. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2011</b> , 323, 2055-2063	2.8	51
37	Magnetic-field-dependent optical transmission of nickel nanorod colloidal dispersions. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 114301	2.5	36
36	Configuration of the magnetosome chain: a natural magnetic nanoarchitecture. <i>Nanoscale</i> , <b>2018</b> , 10, 7407-7419	7.7	34
35	Magnetic and geometric anisotropy in particle-crosslinked ferrohydrogels. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 1290-8	3.6	34
34	Rotational diffusion of magnetic nickel nanorods in colloidal dispersions. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 325103	1.8	34
33	Distribution functions of magnetic nanoparticles determined by a numerical inversion method. <i>New Journal of Physics</i> , <b>2017</b> , 19, 073012	2.9	33
32	Structural and magnetic properties of multi-core nanoparticles analysed using a generalised numerical inversion method. <i>Scientific Reports</i> , <b>2017</b> , 7, 45990	4.9	32
31	Dipolar-coupled moment correlations in clusters of magnetic nanoparticles. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	31
30	Shear modulus determination in model hydrogels by means of elongated magnetic nanoprobles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2012</b> , 50, 1772-1781	2.6	30
29	Nanoscale rheometry of viscoelastic soft matter by oscillating field magneto-optical transmission using ferromagnetic nanorod colloidal probes. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 184305	2.5	26
28	Directing the orientational alignment of anisotropic magnetic nanoparticles using dynamic magnetic fields. <i>Faraday Discussions</i> , <b>2015</b> , 181, 449-61	3.6	22
27	Supraferromagnetic correlations in clusters of magnetic nanoflowers. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 132406	3.4	21
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> , <b>2019</b> , 100,	3.3	20
25	Excitation of Ni nanorod colloids in oscillating magnetic fields: a new approach for nanosensing investigated by TISANE. <i>Nanoscale</i> , <b>2015</b> , 7, 17122-30	7.7	20
24	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> , <b>2013</b> , 346, 152-160	2.8	20

23	Influence of clustering on the magnetic properties and hyperthermia performance of iron oxide nanoparticles. <i>Nanotechnology</i> , <b>2018</b> , 29, 425705	3.4	19
22	Influence of dipolar interactions on the angular-dependent coercivity of nickel nanocylinders. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 145003	3	15
21	Magnetization measurements reveal the local shear stiffness of hydrogels probed by ferromagnetic nanorods. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 372, 187-194	2.8	14
20	Microstructural-defect-induced Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	13
19	Embracing Defects and Disorder in Magnetic Nanoparticles. <i>Advanced Science</i> , <b>2021</b> , 8, 2002682	13.6	13
18	Evidence for the formation of nanoprecipitates with magnetically disordered regions in bulk Ni <sub>50</sub> Mn <sub>45</sub> In <sub>5</sub> Heusler alloys. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	12
17	Morphological and crystallographic orientation of hematite spindles in an applied magnetic field. <i>Nanoscale</i> , <b>2019</b> , 11, 7149-7156	7.7	12
16	Probing the stability and magnetic properties of magnetosome chains in freeze-dried magnetotactic bacteria. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1115-1121	5.1	8
15	Advanced analysis of magnetic nanoflower measurements to leverage their use in biomedicine. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 1633-1645	5.1	6
14	Using the singular value decomposition to extract 2D correlation functions from scattering patterns. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2019</b> , 75, 766-771	1.7	5
13	Revealing defect-induced spin disorder in nanocrystalline Ni. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	5
12	Effect of grain-boundary diffusion process on the geometry of the grain microstructure of NdFeB nanocrystalline magnets. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	4
11	Toward Understanding Complex Spin Textures in Nanoparticles by Magnetic Neutron Scattering. <i>Physical Review Letters</i> , <b>2020</b> , 125, 117201	7.4	4
10	Magnetic structure factor of correlated moments in small-angle neutron scattering. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	3
9	The benefits of a Bayesian analysis for the characterization of magnetic nanoparticles. <i>Nanotechnology</i> , <b>2020</b> , 31, 435704	3.4	3
8	Low-Temperature Growth of AlN Films on Magnetostrictive Foils for High-Magnetoelectric-Response Thin-Film Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 30874-30884	9.5	3
7	Using small-angle scattering to guide functional magnetic nanoparticle design. <i>Nanoscale Advances</i> ,	5.1	2
6	Unraveling Nanostructured Spin Textures in Bulk Magnets. <i>Small Science</i> , <b>2021</b> , 1, 2000003		2

5	Neutron study of magnetic correlations in rare-earth-free Mn-Bi magnets. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	1
4	Magnetic correlations in polycrystalline Tb <sub>0.15</sub> Co <sub>0.85</sub> . <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 335302	3.2	1
3	Revealing a masked Verwey transition in nanoparticles of coexisting Fe-oxide phases.. <i>RSC Advances</i> , <b>2020</b> , 11, 390-396	3.7	1
2	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> , <b>2021</b> , 3, 3491-3496	5.1	1
1	Robust approaches for model-free small-angle scattering data analysis. <i>Journal of Applied Crystallography</i> , <b>2022</b> , 55, 586-591	3.8	0