

# Bruno Weise

## List of Publications by Year in descending order

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28  
papers

519  
citations

759233

12  
h-index

642732

23  
g-index

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all docs

28  
docs citations

28  
times ranked

815  
citing authors

#	ARTICLE	IF	CITATIONS
1	Record-high thermal barrier of the relaxation of magnetization in the nitride clusterfullerene Dy <sub>2</sub> ScN@C <sub>80</sub> -I <sub>h</sub> . Chemical Communications, 2017, 53, 7901-7904.	4.1	95
2	Epoxy-bonded LaFeCoSi magnetocaloric plates. Journal of Magnetism and Magnetic Materials, 2015, 375, 65-73.	2.3	82
3	Asymmetric first-order transition and interlocked particle state in magnetocaloric La(Fe,Si) <sub>13</sub> . Physica Status Solidi - Rapid Research Letters, 2015, 9, 136-140.	2.4	54
4	Structure and giant inverse magnetocaloric effect of epitaxial Ni-Co-Mn-Al films. Physical Review B, 2015, 91, .	3.2	36
5	Effects of Cu doping on the electronic structure and magnetic properties of MnCo <sub>2</sub> O <sub>4</sub> nanostructures. Journal of Physics Condensed Matter, 2017, 29, 425803.	1.8	31
6	Neutron diffraction study of the inverse spinels $\text{Co}_2\text{MnCo}$ and $\text{Co}_2\text{MnMn}$ . Physical Review B, 2017, 96, .	3.2	30
7	Impression of magnetic clusters, critical behavior and magnetocaloric effect in Fe <sub>3</sub> Al alloys. Physical Chemistry Chemical Physics, 2019, 21, 10823-10833.	2.8	24
8	Magnetic structure and spin correlations in magnetoelectric honeycomb $\text{M}_4\text{T}_2\text{a}$ . Physical Review B, 2017, 96, .	3.2	19
9	Role of disorder when upscaling magnetocaloric Ni-Co-Mn-Al Heusler alloys from thin films to ribbons. Scientific Reports, 2018, 8, 9147.	3.3	19
10	Coupling Phenomena in Magnetocaloric Materials. Energy Technology, 2018, 6, 1429-1447.	3.8	15
11	Exchange bias effect in martensitic epitaxial Ni-Mn-Sn thin films applied to pin CoFeB/MgO/CoFeB magnetic tunnel junctions. Applied Physics Letters, 2015, 106, .	3.3	14
12	Fluorescent magnetic nanoparticles for modulating the level of intracellular Ca <sup>2+</sup> in motoneurons. Nanoscale, 2019, 11, 16103-16113.	5.6	13
13	Magnetocaloric prospects of mutual substitutions of rare-earth elements in pseudobinary Tb <sub>1-x</sub> HoxNi <sub>2</sub> compositions ( $x=0.25-0.75$ ). Journal of Alloys and Compounds, 2021, 886, 161295.	5.5	13
14	ROS-generation and cellular uptake behavior of amino-silica nanoparticles arisen from their uploading by both iron-oxides and hexamolybdenum clusters. Materials Science and Engineering C, 2020, 117, 111305.	7.3	12
15	Interfacial Thermal Resistance in Magnetocaloric Epoxy-Bonded LaFeCoSi Composites. Energy Technology, 2018, 6, 1448-1452.	3.8	11
16	Anisotropic thermal conductivity in epoxy-bonded magnetocaloric composites. Journal of Applied Physics, 2016, 120, .	2.5	7
17	Predicting the dominating factors during heat transfer in magnetocaloric composite wires. Materials and Design, 2020, 193, 108832.	7.0	7
18	Magnetic field-temperature phase diagram, exchange constants and specific heat exponents of the antiferromagnet MnNb <sub>2</sub> O <sub>6</sub> . Journal of Physics Condensed Matter, 2021, 33, 345801.	1.8	6

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19	Determination of the tricritical point, Hâ€T phase diagram and exchange interactions in the antiferromagnet MnTa <sub>2</sub> O <sub>6</sub> . Journal of Physics Condensed Matter, 2022, 34, 155801.	1.8	6
20	Entropy of Conduction Electrons from Transport Experiments. Entropy, 2020, 22, 244.	2.2	4
21	T2- and T1 relaxivities and magnetic hyperthermia of iron-oxide nanoparticles combined with paramagnetic Gd complexes. Journal of Chemical Sciences, 2021, 133, 1.	1.5	4
22	Antiferromagnetic short-range order and cluster spin-glass state in diluted spinel ZnTiCoO <sub>4</sub> . Journal of Physics Condensed Matter, 2022, , .	1.8	4
23	Magnetization reversal, field-induced transitions and Hâ€T phase diagram of Y <sub>1-x</sub> Ce <sub>x</sub> CrO <sub>3</sub> . Journal of Physics Condensed Matter, 2022, 34, 065801.	1.8	3
24	Effect of Ce substitution on the local magnetic ordering and phonon instabilities in antiferromagnetic DyCrO <sub>3</sub> perovskites. Journal of Physics Condensed Matter, 2022, 34, 345803.	1.8	3
25	Low-Temperature Magnetothermodynamics Performance of Tb <sub>1-x</sub> Er <sub>x</sub> Ni <sub>2</sub> Laves-Phases Compounds for Designing Composite Refrigerants. Crystals, 2022, 12, 931.	2.2	3
26	Evaluation of the effective temperature change in Gd-based composite wires assessed by static and pulsed-field magnetic measurements. Journal of Magnetism and Magnetic Materials, 2021, 536, 168115.	2.3	2
27	Hydrostatic pressure induced giant enhancement of entropy change as driven by structural transition in Mn <sub>0.9</sub> Fe <sub>0.2</sub> Ni <sub>0.9</sub> Ge <sub>0.93</sub> Si <sub>0.07</sub> . Journal of Applied Physics, 2021, 129, .	2.5	1
28	Strong correlation between structure and magnetic ordering in tetragonally distorted off-stoichiometric spinels $Mn_{1.15}O_4$ and $Mn_{1.15}O_4$ . Physical Review Materials, 2022, 6, .	2.4	1