

# B Schwarz

## List of Publications by Year in descending order

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38  
papers

1,004  
citations

430442

18  
h-index

433756

31  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1343  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical, Structural, and Electronic Aspects of Formation and Degradation Behavior on Different Length Scales of Ni-Rich NCM and Li-Rich HE-NCM Cathode Materials in Li-Ion Batteries. <i>Advanced Materials</i> , 2019, 31, e1900985.	11.1	319
2	Chemical and Structural Evolution during the Synthesis of Layered Li(Ni,Co,Mn)O <sub>2</sub> Oxides. <i>Chemistry of Materials</i> , 2020, 32, 4984-4997.	3.2	58
3	Synthesis, structural, magnetic and electrochemical properties of LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> prepared by a sol-gel method using table sugar as chelating agent. <i>Electrochimica Acta</i> , 2013, 113, 313-321.	2.6	51
4	Lithium-ion (de)intercalation mechanism in core-shell layered Li(Ni,Co,Mn)O <sub>2</sub> cathode materials. <i>Nano Energy</i> , 2020, 78, 105231.	8.2	50
5	Magnetocaloric effect in Gd-based Gd <sub>60</sub> Fe <sub>x</sub> Co <sub>30</sub> Al <sub>10</sub> metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2298-2303.	1.0	47
6	Magnetocaloric (Fe-B)-based amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 329, 101-104.	1.0	41
7	Magnetic properties and crystal structure of Sr <sub>3</sub> Co <sub>2</sub> Fe <sub>3</sub> O <sub>10</sub> . <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	30
8	Low-temperature crystal structure, specific heat, and dielectric properties of lithium tetraborate Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> . <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	29
9	(De)Lithiation Mechanism of Hierarchically Layered LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> Cathodes during High-Voltage Cycling. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5025-A5032.	1.3	27
10	Giant irreversible positive to large reversible negative magnetic entropy change evolution in Tb-based bulk metallic glass. <i>Physical Review B</i> , 2010, 82, .	1.1	26
11	Phosphoric acid and thermal treatments reveal the peculiar role of surface oxygen anions in lithium and manganese-rich layered oxides. <i>Journal of Materials Chemistry A</i> , 2021, 9, 264-273.	5.2	26
12	Influence of sample geometry on determination of magnetocaloric effect for Gd <sub>60</sub> Co <sub>30</sub> Al <sub>10</sub> glassy ribbons using direct and indirect methods. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1782-1786.	1.0	25
13	Phase transformation, charge transfer, and ionic diffusion of Na <sub>4</sub> MnV(PO <sub>4</sub> ) <sub>3</sub> in sodium-ion batteries: a combined first-principles and experimental study. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17477-17486.	5.2	23
14	Magnetic phase diagrams of -MnMoO <sub>4</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 305, 57-62.	1.0	21
15	Magnetic properties of the solid solution series. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, L1-L3.	1.0	21
16	Roles of hydrogenation, annealing and field in the structure and magnetic entropy change of Tb-based bulk metallic glasses. <i>AIP Advances</i> , 2013, 3, .	0.6	20
17	Structural and magnetic nanoclusters in Cu <sub>50</sub> Zr <sub>50</sub> xGdx (x=5at.%) metallic glasses. <i>Acta Materialia</i> , 2012, 60, 1946-1956.	3.8	19
18	Evidence of discrete energy states and cluster-glass behavior in Sr <sub>2</sub> Fe <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , 2020, 102, .	1.0	19

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19	Investigation on the Influence of Particular Structure Parameters on the Anisotropic Spin-Exchange Interactions in the Distorted Wolframite-Type Oxides Cu(Mo <sub>x</sub> W <sub>1-x</sub> )O <sub>4</sub> . Inorganic Chemistry, 2007, 46, 378-380.	1.9	15
20	Irreversible and reversible magnetic entropy change in a Dy-based bulk metallic glass. Intermetallics, 2012, 30, 76-79.	1.8	15
21	Microstructure and magnetic properties of Gd-Hf-Co-Al phase separated metallic glasses. Intermetallics, 2012, 20, 115-122.	1.8	15
22	Liquid-liquid demixing and microstructure of Co-Cu-Zr alloys with low Zr content. Intermetallics, 2013, 32, 250-258.	1.8	15
23	Phase separation and magnetic properties in Gd-(Hf,Ti,Y)-Co-Al metallic glasses. Scripta Materialia, 2012, 67, 149-152.	2.6	10
24	Magnetic properties and magnetocaloric effect of rapidly quenched Gd-Co-Fe-Al alloys. Journal of Magnetism and Magnetic Materials, 2012, 324, 1581-1587.	1.0	10
25	Dielectric Relaxation and Magnetic Structure of A-Site-Ordered Perovskite Oxide Semiconductor CaCu <sub>3</sub> Fe <sub>2</sub> Ta <sub>2</sub> O <sub>12</sub> . Inorganic Chemistry, 2021, 60, 6999-7007.	1.9	10
26	The use of [Fe(dithiooxalate) <sub>2</sub> (NO)] <sup>2-</sup> as a tecton in crystal engineering. CrystEngComm, 2011, 13, 5082.	1.3	8
27	Crystal chemistry, structure and magnetic properties of the Cu(Mo <sub>x</sub> W <sub>1-x</sub> )O <sub>4</sub> solid solution series. Philosophical Magazine, 2008, 88, 1235-1258.	0.7	7
28	Combined in-situ SAXS/WAXS and HRTEM study on crystallization of (Cu <sub>60</sub> Co <sub>40</sub> ) <sub>1-x</sub> Zr <sub>x</sub> metallic glasses. Journal of Non-Crystalline Solids, 2011, 357, 1538-1546.	1.5	7
29	Magnetic ordering and slow dynamics in a Ho-based bulk metallic glass with moderate random magnetic anisotropy. Journal of Applied Physics, 2011, 109, 113904.	1.1	7
30	Low temperature structural variations and molar heat capacity of stolzite, PbWO <sub>4</sub> . Journal of Solid State Chemistry, 2010, 183, 1245-1251.	1.4	6
31	Phase separation in Ni <sub>70</sub> Nb <sub>30</sub> -Y glasses. Intermetallics, 2010, 18, 1842-1845.	1.8	6
32	The effect of electrochemically inactive Ti substituted for Ru in Li <sub>2</sub> Ru <sub>1</sub> -Ti O <sub>3</sub> on structure and electrochemical performance. Journal of Energy Chemistry, 2021, 60, 222-228.	7.1	6
33	Peroxo Species Formed in the Bulk of Silicate Cathodes. Angewandte Chemie - International Edition, 2021, 60, 10056-10063.	7.2	5
34	Mechanism of the giant irreversible positive magnetic entropy change in a Tb-based bulk metallic glass. Applied Physics Letters, 2012, 101, 062411.	1.5	4
35	Surface oxidation and magnetic properties of (Cu <sub>60</sub> Co <sub>40</sub> ) <sub>68</sub> Zr <sub>32</sub> glassy ribbons. Journal of Alloys and Compounds, 2010, 506, 520-525.	2.8	2
36	Peroxo Species Formed in the Bulk of Silicate Cathodes. Angewandte Chemie, 2021, 133, 10144-10151.	1.6	2

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37	Paramagnetic <sup>7</sup> Li NMR Shifts and Magnetic Properties of Divalent Transition Metal Silylamide Ate Complexes [LiM{N(SiMe <sub>3</sub> ) <sub>2</sub> ] <sub>3</sub> ] (M <sup>2+</sup> =) Tj ETQq191 0.784814 rgB		
38	Innentitelbild: Peroxo Species Formed in the Bulk of Silicate Cathodes (Angew. Chem. 18/2021). Angewandte Chemie, 2021, 133, 9814-9814.	1.6	0