B Schwarz

List of Publications by Citations

37 papers	636 citations	15 h-index	24 g-index
40 ext. papers	833 ext. citations	5.7 avg, IF	3.9 L-index

#	Paper	IF	Citations
37	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. *Advanced Materials*, **2019**, 31, e1900985	24	152
36	Synthesis, structural, magnetic and electrochemical properties of LiNi1/3Mn1/3Co1/3O2 prepared by a sol□gel method using table sugar as chelating agent. *Electrochimica Acta*, **2013**, 113, 313-321	6.7	45
35	Magnetocaloric effect in Gd-based Gd60FexCo30□Al10 metallic glasses. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 2298-2303	2.8	45
34	Magnetocaloric (FeB)-based amorphous alloys. *Journal of Magnetism and Magnetic Materials*, **2013**, 329, 101-104	2.8	32
33	Influence of sample geometry on determination of magnetocaloric effect for Gd60Co30Al10 glassy ribbons using direct and indirect methods. *Journal of Magnetism and Magnetic Materials*, **2011**, 323, 1782-1786	2.8	25
32	Magnetic properties and crystal structure of Sr3CoIrO6 and Sr3NiIrO6. *Physical Review B*, **2012**, 86,	3.3	24
31	Low-temperature crystal structure, specific heat, and dielectric properties of lithium tetraborate Li2B4O7. *Journal of Applied Physics*, **2010**, 108, 093524	2.5	24
30	Lithium-ion (de)intercalation mechanism in core-shell layered Li(Ni,Co,Mn)O2 cathode materials. *Nano Energy*, **2020**, 78, 105231	17.1	21
29	Chemical and Structural Evolution during the Synthesis of Layered Li(Ni,Co,Mn)O2 Oxides. *Chemistry of Materials*, **2020**, 32, 4984-4997	9.6	20
28	Giant irreversible positive to large reversible negative magnetic entropy change evolution in Tb-based bulk metallic glass. *Physical Review B*, **2010**, 82,	3.3	19
27	(De)Lithiation Mechanism of Hierarchically Layered LiNi1/3Co1/3Mn1/3O2 Cathodes during High-Voltage Cycling. *Journal of the Electrochemical Society*, **2019**, 166, A5025-A5032	3.9	19
26	Magnetic properties of the solid solution series. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, L1-L3	2.8	18
25	Magnetic phase diagrams of -MnMoO4. *Journal of Magnetism and Magnetic Materials*, **2006**, 305, 57-62	2.8	18
24	Structural and magnetic nanoclusters in Cu50Zr50□Gdx (x = 5 at.%) metallic glasses. *Acta Materialia*, **2012**, 60, 1946-1956	8.4	17
23	Roles of hydrogenation, annealing and field in the structure and magnetic entropy change of Tb-based bulk metallic glasses. *AIP Advances*, **2013**, 3, 032134	1.5	17
22	Liquid□liquid demixing and microstructure of Co□Cu□r alloys with low Zr content. *Intermetallics*, **2013**, 32, 250-258	3.5	14
21	Microstructure and magnetic properties of Gd□Hf□Co□Al phase separated metallic glasses. *Intermetallics*, **2012**, 20, 115-122	3.5	14

20	Investigation on the influence of particular structure parameters on the anisotropic spin-exchange interactions in the distorted wolframite-type oxides Cu(Mo(x)W(1-x))O4. *Inorganic Chemistry*, **2007**, 46, 378-80	5.1	14
19	Phase transformation, charge transfer, and ionic diffusion of Na4MnV(PO4)3 in sodium-ion batteries: a combined first-principles and experimental study. *Journal of Materials Chemistry A*, **2020**, 8, 17477-17486	13	11
18	Phase separation and magnetic properties in Gd□(Hf,Ti,Y)□Co□Al metallic glasses. *Scripta Materialia*, **2012**, 67, 149-152	5.6	10
17	Phosphoric acid and thermal treatments reveal the peculiar role of surface oxygen anions in lithium and manganese-rich layered oxides. *Journal of Materials Chemistry A*, **2021**, 9, 264-273	13	10
16	Magnetic properties and magnetocaloric effect of rapidly quenched Gd□Co□Fe□Al alloys. *Journal of Magnetism and Magnetic Materials*, **2012**, 324, 1581-1587	2.8	9
15	Irreversible and reversible magnetic entropy change in a Dy-based bulk metallic glass. *Intermetallics*, **2012**, 30, 76-79	3.5	9
14	The use of [Fe(dithiooxalate)2(NO)]2□as a tecton in crystal engineering. *CrystEngComm*, **2011**, 13, 5082	3.3	8
13	Combined in-situ SAXS/WAXS and HRTEM study on crystallization of (Cu60Co40)1 □xZrx metallic glasses. *Journal of Non-Crystalline Solids*, **2011**, 357, 1538-1546	3.9	7
12	Crystal chemistry, structure and magnetic properties of the Cu(Mo x W1□x)O4 solid solution series. *Philosophical Magazine*, **2008**, 88, 1235-1258	1.6	7
11	Phase separation in Ni70Nb30□Yx glasses. *Intermetallics*, **2010**, 18, 1842-1845	3.5	6
10	Low temperature structural variations and molar heat capacity of stolzite, PbWO4. *Journal of Solid State Chemistry*, **2010**, 183, 1245-1251	3.3	5
9	Magnetic ordering and slow dynamics in a Ho-based bulk metallic glass with moderate random magnetic anisotropy. *Journal of Applied Physics*, **2011**, 109, 113904	2.5	4
8	Mechanism of the giant irreversible positive magnetic entropy change in a Tb-based bulk metallic glass. *Applied Physics Letters*, **2012**, 101, 062411	3.4	4
7	Peroxo Species Formed in the Bulk of Silicate Cathodes. *Angewandte Chemie - International Edition*, **2021**, 60, 10056-10063	16.4	4
6	Surface oxidation and magnetic properties of (Cu60Co40)68Zr32 glassy ribbons. *Journal of Alloys and Compounds*, **2010**, 506, 520-525	5.7	2
5	Evidence of discrete energy states and cluster-glass behavior in Sr2□LaxCoNbO6. *Physical Review B*, **2020**, 102,	3.3	2
4	Peroxo Species Formed in the Bulk of Silicate Cathodes. *Angewandte Chemie*, **2021**, 133, 10144-10151	3.6	0
3	Dielectric Relaxation and Magnetic Structure of A-Site-Ordered Perovskite Oxide Semiconductor CaCuFeTaO. *Inorganic Chemistry*, **2021**, 60, 6999-7007	5.1	0

2	The effect of electrochemically inactive Ti substituted for Ru in Li2Ru1-Ti O3 on structure and electrochemical performance. *Journal of Energy Chemistry*, **2021**, 60, 222-228	12	0
1	Innentitelbild: Peroxo Species Formed in the Bulk of Silicate Cathodes (Angew. Chem. 18/2021). *Angewandte Chemie*, **2021**, 133, 9814-9814	3.6	