

Christoph M Frommen

List of Publications by Year in descending order

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52
papers

2,116
citations

279798

23
h-index

223800

46
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54
all docs

54
docs citations

54
times ranked

2079
citing authors

#	ARTICLE	IF	CITATIONS
1	Surfactant-Assisted Growth of Novel PbS Dendritic Nanostructures via Facile Hydrothermal Process. <i>Advanced Materials</i> , 2003, 15, 1747-1750.	21.0	361
2	Synthesis and properties of magnesium tetrahydroborate, Mg(BH ₄) ₂ . <i>Journal of Materials Chemistry</i> , 2007, 17, 3496.	6.7	320
3	Fabrication of boehmite AlOOH and γ -Al ₂ O ₃ nanotubes via a soft solution route. <i>Journal of Materials Chemistry</i> , 2003, 13, 660-662.	6.7	128
4	Thermal decomposition of Mg(BH ₄) ₂ under He flow and H ₂ pressure. <i>Journal of Materials Chemistry</i> , 2008, 18, 2611.	6.7	103
5	Double-Bridge Bonding of Aluminium and Hydrogen in the Crystal Structure of γ -AlH ₃ . <i>Inorganic Chemistry</i> , 2007, 46, 1051-1055.	4.0	89
6	Electrodeposited nickel and gold nanoscale metal meshes with potentially interesting photonic properties. <i>Chemical Communications</i> , 2000, , 997-998.	4.1	79
7	Crystal structure, polymorphism, and thermal properties of yttrium borohydride Y(BH ₄) ₃ . <i>Journal of Alloys and Compounds</i> , 2010, 496, 710-716.	5.5	79
8	Effects of Paramagnetic Ferrocenium Cations on the Magnetic Properties of the Anionic Single-Molecule Magnet [Mn ₁₂ O ₁₂ (O ₂ CC ₆ F ₅) ₁₆ (H ₂ O) ₄] ⁻ . <i>Inorganic Chemistry</i> , 2001, 40, 6469-6480.	4.0	68
9	Structure and thermal properties of composites with RE-borohydrides (RE = La, Ce, Pr, Nd, Sm, Eu, Gd). <i>Tj ETQq1 1 0.784314 10 BT /Ov</i>	3.6	64
10	Synthesis of gadolinium oxide magnetoliposomes for magnetic resonance imaging. <i>Journal of Applied Physics</i> , 2000, 87, 6208-6210.	2.5	60
11	Synthesis and Properties of Calcium Alanate and Two Solvent Adducts. <i>Inorganic Chemistry</i> , 2005, 44, 3479-3484.	4.0	52
12	Synthesis, Crystal Structure, and Thermal Properties of the First Mixed-Metal and Anion-Substituted Rare Earth Borohydride LiCe(BH ₄) ₄ Cl. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23591-23602.	3.1	50
13	Crystal structures and properties of solvent-free LiYb(BH ₄) ₄ ^x Cl _x , Yb(BH ₄) ₃ and Yb(BH ₄) ₂ ^x Cl _x . <i>RSC Advances</i> , 2013, 3, 10764.	3.6	46
14	Crystal structure and in situ decomposition of Eu(BH ₄) ₄ and Sm(BH ₄) ₄ . <i>Journal of Materials Chemistry A</i> , 2015, 3, 691-698.	10.3	42
15	Hydrogen storage properties of γ -Mg(BH ₄) ₂ modified by MoO ₃ and TiO ₂ . <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12286-12293.	7.1	42
16	Structural studies of lithium zinc borohydride by neutron powder diffraction, Raman and NMR spectroscopy. <i>Journal of Alloys and Compounds</i> , 2011, 509, S698-S704.	5.5	40
17	Rare Earth Borohydrides—Crystal Structures and Thermal Properties. <i>Energies</i> , 2017, 10, 2115.	3.1	40
18	Synchrotron X-Ray Studies of Ti-Doped NaAlH ₄ . <i>Journal of Physical Chemistry B</i> , 2006, 110, 3051-3054.	2.6	29

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19	Comparative phase transformation and magnetocaloric effect study of Co and Mn substitution by Cu in MnCoGe compounds. <i>Journal of Alloys and Compounds</i> , 2019, 775, 22-29.	5.5	28
20	The influence of LiH on the rehydrogenation behavior of halide free rare earth (RE) borohydrides (RE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.8	26
21	Jahn-Teller ordering in KagomÃ©-type layers of compounds A ₂ Aâ€™ ²⁺ Mn ₃ IIIIF ₁₂ (Aâ€™â†—»Rb, Cs; Aâ€™ ²⁺ â†—»Li, Na, K). <i>Journal of Alloys and Compounds</i> , 1997, 246, 155-165.	5.5	25
22	Synthesis and Mossbauer Spectroscopic Studies of Chemically Oxidized Ferrocenyl(phenyl)phosphines. <i>Inorganic Chemistry</i> , 2000, 39, 3506-3514.	4.0	24
23	Chloride substitution induced by mechano-chemical reactions between NaBH ₄ and transition metal chlorides. <i>Journal of Alloys and Compounds</i> , 2012, 530, 186-192.	5.5	24
24	Synthesis, Structure, and Magnetic Characterization of a Hysteretic Charge-Transfer Salt Metamagnet, Decamethylferrocenium 2,3-Dicyano-1,4-Naphthoquinonide, [Fe(Cp*) ₂][DCNQ]. <i>Inorganic Chemistry</i> , 2000, 39, 1874-1877.	4.0	23
25	Hydrogen Sorption in Erbium Borohydride Composite Mixtures with LiBH ₄ and/or LiH. <i>Inorganics</i> , 2017, 5, 31.	2.7	23
26	Observation of a Very Large Internal Hyperfine Field (62.4 T) in the Ferromagnetically Ordered State of the S = 1 Ì±-Iron(II) Octaethyltetraazaporphyrin. <i>Inorganic Chemistry</i> , 2000, 39, 2076-2079.	4.0	22
27	Hydrogen storage properties of rare earth (RE) borohydrides (RE = La, Er) in composite mixtures with LiBH ₄ and LiH. <i>Journal of Alloys and Compounds</i> , 2015, 645, S155-S159.	5.5	22
28	Wet-chemical synthesis and martensitic phase transformation of Auâ€™Cd nanoparticles with near-equiatomic composition. <i>Journal of Alloys and Compounds</i> , 2004, 377, 232-242.	5.5	21
29	Ein Fluoridphosphat von Mangan(III) mit ungewÃ¶hnlicher Schichtstruktur: Na ₇ [Mn ₅ F ₁₃ (PO ₄) ₃ (H ₂ O) ₃]. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1998, 624, 461-468.	1.2	19
30	Structural and spectroscopic characterization of potassium fluoroborohydrides. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11226.	2.8	18
31	Magnetism of Alkalitetrafluoromanganates (III) AMnF ₄ (A = K, Rb, Cs): Neutron Diffraction, MÃ¶ssbauer and Magnetization Investigations. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1993, 48, 1054-1072.	1.5	17
32	Observation of long-period superstructures in chemically synthesised CoPt nanoparticles. <i>Materials Letters</i> , 2004, 58, 123-127.	2.6	16
33	In situ investigations of bimetallic potassium erbium borohydride. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22468-22474.	7.1	14
34	Al K Edge XANES Measurements in NaAlH ₄ Doped with TiCl ₃ by Ball Milling. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3795-3798.	3.1	13
35	The influence of nanoparticle fillers on the morphology of a spin-cast thin film polymer blend. <i>Colloid and Polymer Science</i> , 2006, 284, 482-488.	2.1	10
36	Synthesis and chemical oxidation of 3-ferrocenylpyrrole and ferrocenyl-substituted triazoles: Iron versus ligand based oxidation. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 3262-3269.	1.8	10

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37	Wet-Chemical Synthesis and Properties of CoPt and CoPt ₃ Alloy Nanoparticles. Journal of Nanoscience and Nanotechnology, 2002, 2, 509-515.	0.9	9
38	Reactions of alkyl- and aryl(ferrocenyl)phosphines with 2,3-dichloro-5,6-dicyano-1,4-benzoquinone. Inorganica Chimica Acta, 2004, 357, 311-315.	2.4	9
39	Synthesis and magnetic properties of CoPt ₃ nanoparticle assemblies containing copper. Materials Letters, 2004, 58, 953-958.	2.6	9
40	Mechano-chemical reactions in LiBH ₄ +VCl _n (n=2 and 3) mixtures. Journal of Alloys and Compounds, 2011, 509, S684-S687.	5.5	9
41	Magnetic Solitons in the 1-D Antiferromagnetic Chains of Li ₂ Mn _{0.98} Fe _{0.02} F ₅ and Na ₂ Mn _{0.98} Fe _{0.02} F ₅ . Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1996, 51, 939-949.	1.5	7
42	Nonlinear excitations (solitons) in the antiferromagnetic chain of (NH ₄) ₂ Mn _{0.98} Fe _{0.02} F ₅ . Hyperfine Interactions, 1995, 96, 51-62.	0.5	5
43	Thermal stability of photovoltaic a-Si:H determined by neutron reflectometry. Applied Physics Letters, 2014, 105, .	3.3	5
44	An Internal Hyperfine Field of 62.4 T in Ferromagnetically Ordered $\hat{\pm}$ -Iron(II) Octaethyl-Tetraazaporphyrin. Molecular Crystals and Liquid Crystals, 1999, 335, 23-31.	0.3	4
45	Comparison of the Non-linear Spin Dynamics in Antiferromagnetic Chain Compounds Na ₂ MnF ₅ and (ND ₄) ₂ MnF ₅ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630, 829-840.	1.2	4
46	Experimental and computational characterization of phase transitions in CsB ₃ H ₈ . Physical Chemistry Chemical Physics, 2021, 23, 17836-17847.	2.8	4
47	Low energy accelerator-driven neutron sources: Closing the gap and shaping the future. Neutron News, 2020, 31, 2-3.	0.2	2
48	Wet-Chemical Synthesis and Properties of CoPt and CoPt ₃ Alloy Nanoparticles. Journal of Nanoscience and Nanotechnology, 2002, 2, 509-515.	0.9	1
49	Evolution of magnetic phases upon annealing in glass-coated Fe ²⁺ -Ni ²⁺ -Cu microwires. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1970-1972.	2.3	0
50	Wet-Chemical Synthesis and Martensitic Phase Transformation of Au ²⁺ -Cd Nanoparticles with Near-Equiatomic Composition.. ChemInform, 2004, 35, no.	0.0	0
51	Synthesis and Properties of Calcium Alanate and Two Solvent Adducts.. ChemInform, 2005, 36, no.	0.0	0
52	Hydrogen Concentration in Photovoltaic a-Si:H Annealed at Different Temperatures Measured by Neutron Reflectometry. IEEE Journal of Photovoltaics, 2018, 8, 1098-1101.	2.5	0