

# 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  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2079  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and computational characterization of phase transitions in CsB3H8. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17836-17847.	2.8	4
2	Low energy accelerator-driven neutron sources: Closing the gap and shaping the future. <i>Neutron News</i> , 2020, 31, 2-3.	0.2	2
3	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
4	Hydrogen Concentration in Photovoltaic a-Si:H Annealed at Different Temperatures Measured by Neutron Reflectometry. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1098-1101.	2.5	0
5	In situ investigations of bimetallic potassium erbium borohydride. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22468-22474.	7.1	14
6	Hydrogen Sorption in Erbium Borohydride Composite Mixtures with LiBH4 and/or LiH. <i>Inorganics</i> , 2017, 5, 31.	2.7	23
7	Rare Earth Borohydrides' Crystal Structures and Thermal Properties. <i>Energies</i> , 2017, 10, 2115.	3.1	40
8	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
9	Hydrogen storage properties of rare earth (RE) borohydrides (RE = La, Er) in composite mixtures with LiBH4 and LiH. <i>Journal of Alloys and Compounds</i> , 2015, 645, S155-S159.	5.5	22
10	Crystal structure and in situ decomposition of Eu(BH <sub>4</sub> ) <sub>2</sub> and Sm(BH <sub>4</sub> ) <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2015, 3, 691-698.	10.3	42
11	Hydrogen storage properties of Mg(BH <sub>4</sub> ) <sub>2</sub> modified by MoO <sub>3</sub> and TiO <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12286-12293.	7.1	42
12	Thermal stability of photovoltaic a-Si:H determined by neutron reflectometry. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	5
13	Structure and thermal properties of composites with RE-borohydrides (RE = La, Ce, Pr, Nd, Sm, Eu, Gd,) Tj ETQq1 1 0.784314 rgBT /Ov	3.6	64
14	Crystal structures and properties of solvent-free LiYb(BH <sub>4</sub> ) <sub>4</sub> ·xClx, Yb(BH <sub>4</sub> ) <sub>3</sub> and Yb(BH <sub>4</sub> ) <sub>2</sub> ·xClx. <i>RSC Advances</i> , 2013, 3, 10764.	3.6	46
15	Structural and spectroscopic characterization of potassium fluoroborohydrides. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11226.	2.8	18
16	Chloride substitution induced by mechano-chemical reactions between NaBH <sub>4</sub> and transition metal chlorides. <i>Journal of Alloys and Compounds</i> , 2012, 530, 186-192.	5.5	24
17	Synthesis, Crystal Structure, and Thermal Properties of the First Mixed-Metal and Anion-Substituted Rare Earth Borohydride LiCe(BH <sub>4</sub> ) <sub>3</sub> Cl. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23591-23602.	3.1	50
18	Mechano-chemical reactions in LiBH <sub>4</sub> +VCl <sub>n</sub> (n=2 and 3) mixtures. <i>Journal of Alloys and Compounds</i> , 2011, 509, S684-S687.	5.5	9

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19	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
20	Crystal structure, polymorphism, and thermal properties of yttrium borohydride Y(BH <sub>4</sub> ) <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2010, 496, 710-716.	5.5	79
21	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
22	Thermal decomposition of Mg(BH <sub>4</sub> ) <sub>2</sub> under He flow and H <sub>2</sub> pressure. <i>Journal of Materials Chemistry</i> , 2008, 18, 2611.	6.7	103
23	Double-Bridge Bonding of Aluminium and Hydrogen in the Crystal Structure of $\hat{I}^3$ -AlH <sub>3</sub> . <i>Inorganic Chemistry</i> , 2007, 46, 1051-1055.	4.0	89
24	Synthesis and properties of magnesium tetrahydroborate, Mg(BH <sub>4</sub> ) <sub>2</sub> . <i>Journal of Materials Chemistry</i> , 2007, 17, 3496.	6.7	320
25	Al K Edge XANES Measurements in NaAlH <sub>4</sub> Doped with TiCl <sub>3</sub> by Ball Milling. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3795-3798.	3.1	13
26	Synchrotron X-Ray Studies of Ti-Doped NaAlH <sub>4</sub> . <i>Journal of Physical Chemistry B</i> , 2006, 110, 3051-3054.	2.6	29
27	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
28	Synthesis and Properties of Calcium Alanate and Two Solvent Adducts.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
29	Synthesis and Properties of Calcium Alanate and Two Solvent Adducts. <i>Inorganic Chemistry</i> , 2005, 44, 3479-3484.	4.0	52
30	Comparison of the Non-linear Spin Dynamics in Antiferromagnetic Chain Compounds Na <sub>2</sub> MnF <sub>5</sub> and (ND <sub>4</sub> ) <sub>2</sub> MnF <sub>5</sub> . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2004, 630, 829-840.	1.2	4
31	Wet-Chemical Synthesis and Martensitic Phase Transformation of Au <sup>100</sup> Cd Nanoparticles with Near-Equiatomic Composition.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
32	Reactions of alkyl- and aryl(ferrocenyl)phosphines with 2,3-dichloro-5,6-dicyano-1,4-benzoquinone. <i>Inorganica Chimica Acta</i> , 2004, 357, 311-315.	2.4	9
33	Wet-chemical synthesis and martensitic phase transformation of Au <sup>100</sup> Cd nanoparticles with near-equiatomic composition. <i>Journal of Alloys and Compounds</i> , 2004, 377, 232-242.	5.5	21
34	Synthesis and magnetic properties of CoPt <sub>3</sub> nanoparticle assemblies containing copper. <i>Materials Letters</i> , 2004, 58, 953-958.	2.6	9
35	Observation of long-period superstructures in chemically synthesised CoPt nanoparticles. <i>Materials Letters</i> , 2004, 58, 123-127.	2.6	16
36	Surfactant-Assisted Growth of Novel PbS Dendritic Nanostructures via Facile Hydrothermal Process. <i>Advanced Materials</i> , 2003, 15, 1747-1750.	21.0	361

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37	Fabrication of boehmite AlOOH and $\gamma$ -Al <sub>2</sub> O <sub>3</sub> nanotubes via a soft solution route. Journal of Materials Chemistry, 2003, 13, 660-662.	6.7	128
38	Wet-Chemical Synthesis and Properties of CoPt and CoPt <sub>3</sub> Alloy Nanoparticles. Journal of Nanoscience and Nanotechnology, 2002, 2, 509-515.	0.9	9
39	Wet-Chemical Synthesis and Properties of CoPt and CoPt <sub>3</sub> Alloy Nanoparticles. Journal of Nanoscience and Nanotechnology, 2002, 2, 509-515.	0.9	1
40	Effects of Paramagnetic Ferrocenium Cations on the Magnetic Properties of the Anionic Single-Molecule Magnet [Mn <sub>12</sub> O <sub>12</sub> (O <sub>2</sub> CC <sub>6</sub> F <sub>5</sub> ) <sub>16</sub> (H <sub>2</sub> O) <sub>4</sub> ] <sup>-</sup> . Inorganic Chemistry, 2001, 40, 6469-6480.	4.0	68
41	Evolution of magnetic phases upon annealing in glass-coated Fe <sup>2+</sup> -Cu microwires. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1970-1972.	2.3	0
42	Electrodeposited nickel and gold nanoscale metal meshes with potentially interesting photonic properties. Chemical Communications, 2000, , 997-998.	4.1	79
43	Synthesis of gadolinium oxide magnetoliposomes for magnetic resonance imaging. Journal of Applied Physics, 2000, 87, 6208-6210.	2.5	60
44	Synthesis, Structure, and Magnetic Characterization of a Hysteretic Charge-Transfer Salt Metamagnet, Decamethylferrocenium 2,3-Dicyano-1,4-Naphthoquinonide, [Fe(Cp*) <sub>2</sub> ][DCNQ]. Inorganic Chemistry, 2000, 39, 1874-1877.	4.0	23
45	Observation of a Very Large Internal Hyperfine Field (62.4 T) in the Ferromagnetically Ordered State of the S=1 Iron(II) Octaethyltetraazaporphyrin. Inorganic Chemistry, 2000, 39, 2076-2079.	4.0	22
46	Synthesis and Mossbauer Spectroscopic Studies of Chemically Oxidized Ferrocenyl(phenyl)phosphines. Inorganic Chemistry, 2000, 39, 3506-3514.	4.0	24
47	An Internal Hyperfine Field of 62.4 T in Ferromagnetically Ordered Iron(II) Octaethyl-Tetraazaporphyrin. Molecular Crystals and Liquid Crystals, 1999, 335, 23-31.	0.3	4
48	Ein Fluoridphosphat von Mangan(III) mit ungewöhnlicher Schichtstruktur: Na <sub>7</sub> [Mn <sub>5</sub> F <sub>13</sub> (PO <sub>4</sub> ) <sub>3</sub> (H <sub>2</sub> O) <sub>3</sub> ]. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1998, 624, 461-468.	1.2	19
49	Jahn-Teller ordering in Kagomé-type layers of compounds A <sub>2</sub> Mn <sub>3</sub> IF <sub>12</sub> (A <sup>+</sup> →Rb, Cs; A <sup>2+</sup> →Li, Na, K). Journal of Alloys and Compounds, 1997, 246, 155-165.	5.5	25
50	Magnetic Solitons in the 1-D Antiferromagnetic Chains of Li <sub>2</sub> Mn <sub>0.98</sub> Fe <sub>0.02</sub> F <sub>5</sub> and Na <sub>2</sub> Mn <sub>0.98</sub> Fe <sub>0.02</sub> F <sub>5</sub> . Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1996, 51, 939-949.	1.5	7
51	Nonlinear excitations (solitons) in the antiferromagnetic chain of (NH <sub>4</sub> ) <sub>2</sub> Mn <sub>0.98</sub> Fe <sub>0.02</sub> F <sub>5</sub> . Hyperfine Interactions, 1995, 96, 51-62.	0.5	5
52	Magnetism of Alkalitetrafluoromanganates (III) AMnF <sub>4</sub> (A = K, Rb, Cs): Neutron Diffraction, Mossbauer and Magnetization Investigations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1993, 48, 1054-1072.	1.5	17