

Christian Knoll

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Medium-temperature thermochemical energy storage with transition metal ammoniates – A systematic material comparison. <i>Applied Energy</i> , 2021, 285, 116470.	10.1	9
2	CuSO ₄ /[Cu(NH ₃) ₄]SO ₄ -Composite Thermochemical Energy Storage Materials. <i>Nanomaterials</i> , 2020, 10, 2485.	4.1	4
3	Bifunctional Fe(II) spin crossover-complexes based on 1-(1H-tetrazol-1-yl) carboxylic acids. <i>Dalton Transactions</i> , 2020, 49, 17183-17193.	3.3	3
4	Ammonium bis(salicylaldehyde thiosemicarbazonato)ferrate(III), a supramolecular material containing low-spin Fe ^{III} . <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020, 76, 625-631.	0.5	2
5	Pressure effects on the carbonation of MeO (Me ²⁺ = Co, Mn, Pb, Zn) for thermochemical energy storage. <i>Applied Energy</i> , 2019, 252, 113451.	10.1	8
6	Tuning the performance of MgO for thermochemical energy storage by dehydration – From fundamentals to phase impurities. <i>Applied Energy</i> , 2019, 253, 113562.	10.1	15
7	Low-temperature carbonatization of metal oxides. <i>Energy Procedia</i> , 2019, 158, 4870-4881.	1.8	4
8	Magnesium oxide from natural magnesite samples as thermochemical energy storage material. <i>Energy Procedia</i> , 2019, 158, 4861-4869.	1.8	8
9	Azobis[tetrazolide]-Carbonates of the Lanthanides – Breaking the Gadolinium Break. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1969-1975.	2.0	6
10	Azobis[tetrazolide]-Carbonates of the Lanthanides - Breaking the Gadolinium Break. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1954-1954.	2.0	0
11	Unsaturated Aryl and Heteroaryl N1-Tetrazoles from 1-Allyl-1H-tetrazole. <i>Synthesis</i> , 2018, 50, 1007-1014.	2.3	1
12	Cooperativity in spin crossover materials as ligand's responsibility – investigations of the Fe ^{II} 1,3-bis((1H-tetrazol-1-yl)methyl)bicyclo[1.1.1]pentane system. <i>Dalton Transactions</i> , 2018, 47, 5553-5557.	3.3	5
13	Calcium Doping Facilitates Water Dissociation in Magnesium Oxide. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700096.	5.3	12
14	Methodology to determine the apparent specific heat capacity of metal hydroxides for thermochemical energy storage. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 133, 207-215.	3.6	7
15	Cycle Stability and Hydration Behavior of Magnesium Oxide and Its Dependence on the Precursor-Related Particle Morphology. <i>Nanomaterials</i> , 2018, 8, 795.	4.1	19
16	Thermochemical Energy Storage: Calcium Doping Facilitates Water Dissociation in Magnesium Oxide (Adv. Sustainable Syst. 1/2018). <i>Advanced Sustainable Systems</i> , 2018, 2, 1870004.	5.3	0
17	Halogenated Alkyltetrazoles for the Rational Design of Fe ^{II} Spin-Crossover Materials: Fine-Tuning of the Ligand Size. <i>Chemistry - A European Journal</i> , 2018, 24, 5271-5280.	3.3	8
18	Aryl and Heteroaryl N1-Tetrazoles through Ligand-Free Suzuki Reaction under Aerobic, Aqueous Conditions. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 2416-2424.	2.4	3

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19	Microwave alkylation of lithium tetrazolate. Monatshefte für Chemie, 2017, 148, 131-137.	1.8	3
20	Combining in-situ X-ray diffraction with thermogravimetry and differential scanning calorimetry – An investigation of Co ₃ O ₄ , MnO ₂ and PbO ₂ for thermochemical energy storage. Solar Energy, 2017, 153, 11-24.	6.1	29
21	High-Temperature Energy Storage: Kinetic Investigations of the CuO/Cu ₂ O Reaction Cycle. Energy & Fuels, 2017, 31, 2324-2334.	5.1	53
22	Pikomolare Spuren von Am ^{III} verursachen drastische Unterschiede in der Koordinationschemie von Tb ^{III} : ein Sprung über die "Gadoliniumecke". Angewandte Chemie, 2017, 129, 13448-13453.	2.0	1
23	Innentitelbild: Pikomolare Spuren von Am ^{III} verursachen drastische Unterschiede in der Koordinationschemie von Tb ^{III} : ein Sprung über die "Gadoliniumecke" (Angew. Chem.) Tj ETQq1.0 0.784014 rgBT		
24	Picomolar Traces of Americium(III) Introduce Drastic Changes in the Structural Chemistry of Terbium(III): A Break in the "Gadolinium Break". Angewandte Chemie - International Edition, 2017, 56, 13264-13269.	13.8	6
25	An extension of the NPK method to include the pressure dependency of solid state reactions. Thermochimica Acta, 2017, 654, 168-178.	2.7	18
26	Probing cycle stability and reversibility in thermochemical energy storage – CaC ₂ O ₄ ·H ₂ O as perfect match?. Applied Energy, 2017, 187, 1-9.	10.1	27
27	Moisture-triggered ambient-temperature carbonatization of main group II metal oxides under elevated CO ₂ pressure. , 2017, , .		0
28	Lab-scale demonstration of thermochemical energy storage with NH ₃ and impregnated-loaded zeolites. , 2017, , .		0
29	Metal-Oxides for Thermochemical Energy Storage – from Gas-Triggered Isothermal Cycling to Low-Temperature Applications with Increased O ₂ Pressure. , 2017, , .		0
30	Hexakis (propargyl-1H-tetrazole) Iron(II) X ₂ [X = BF ₄ , ClO ₄] – Spin Switchable Complexes with Functionalization Potential and the Myth of the Explosive SCO Compound. Magnetochemistry, 2016, 2, 12.	2.4	9
31	ATR or transmission – A variable temperature study comparing both techniques using [Fe(3ditz) ₃](BF ₄) ₂ as model system. Vibrational Spectroscopy, 2016, 86, 198-205.	2.2	4
32	An unusually water-poor 5,5'-azobistetrazolate of dysprosium: stabilization of a nitrogen-rich heterocycle by a minimum of hydrogen bonds. New Journal of Chemistry, 2013, 37, 3840.	2.8	7
33	A Modified Synthetic Pathway for the Synthesis of so far Inaccessible N1-Functionalized Tetrazole Ligands – Synthesis and Characterization of the 1D Chain-Type Spin Crossover Compound [Fe(3ditz) ₃](BF ₄) ₂ . European Journal of Inorganic Chemistry, 2013, 2013, 984-991.	2.0	15