

Priv-Doz Dr Peter Weinberger

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

1,237
citations

18
h-index

33
g-index

82
ext. papers

1,330
ext. citations

4
avg, IF

3.73
L-index

#	Paper	IF	Citations
72	Thermal Energy Storage Materials (TESMs) What Does It Take to Make Them Fly?. <i>Crystals</i> , 2021 , 11, 1276	2.3	5
71	Medium-temperature thermochemical energy storage with transition metal ammoniates [A] systematic material comparison. <i>Applied Energy</i> , 2021 , 285, 116470	10.7	7
70	Pressure Dependence of the Low Temperature Carbonation Kinetics of Calcium Oxide for Potential Thermochemical Energy Storage Purposes and Sustainable CO ₂ Fixation. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2100022	5.9	1
69	Controlling Complexation Behavior of Early Lanthanides via the Subtle Interplay of their Lewis Acidity with the Chemical Stability of 5,5'-(Azobis)tetrazolide. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020 , 646, 1882-1885	1.3	0
68	Bifunctional Fe(II) spin crossover-complexes based on π (1-tetrazol-1-yl) carboxylic acids. <i>Dalton Transactions</i> , 2020 , 49, 17183-17193	4.3	2
67	Ammonium bis(salicylaldehyde thiosemicarbazonato)ferrate(III), a supramolecular material containing low-spin Fe. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020 , 76, 625-631	0.8	1
66	CuSO/[Cu(NH)]SO-Composite Thermochemical Energy Storage Materials. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
65	Low-temperature carbonatization of metal oxides. <i>Energy Procedia</i> , 2019 , 158, 4870-4881	2.3	3
64	Magnesium oxide from natural magnesite samples as thermochemical energy storage material. <i>Energy Procedia</i> , 2019 , 158, 4861-4869	2.3	4
63	Pressure effects on the carbonation of MeO (Me = Co, Mn, Pb, Zn) for thermochemical energy storage. <i>Applied Energy</i> , 2019 , 252, 113451	10.7	7
62	Tuning the performance of MgO for thermochemical energy storage by dehydration [From fundamentals to phase impurities. <i>Applied Energy</i> , 2019 , 253, 113562	10.7	13
61	Azobis[tetrazolide]-Carbonates of the Lanthanides [Breaking the Gadolinium Break. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 1969-1975	2.3	5
60	Azobis[tetrazolide]-Carbonates of the Lanthanides [Breaking the Gadolinium Break. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 1954-1954	2.3	
59	Unsaturated Aryl and Heteroaryl N1-Tetrazoles from 1-Allyl-1H-tetrazole. <i>Synthesis</i> , 2018 , 50, 1007-1014	2.9	1
58	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	4.3	4
57	Calcium Doping Facilitates Water Dissociation in Magnesium Oxide. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700096	5.9	12
56	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	4.1	5

55	Cycle Stability and Hydration Behavior of Magnesium Oxide and Its Dependence on the Precursor-Related Particle Morphology. <i>Nanomaterials</i> , 2018 , 8,	5.4	11
54	Thermochemical Energy Storage: Calcium Doping Facilitates Water Dissociation in Magnesium Oxide (Adv. Sustainable Syst. 1/2018). <i>Advanced Sustainable Systems</i> , 2018 , 2, 1870004	5.9	
53	Halogenated Alkyltetrazoles for the Rational Design of Fe Spin-Crossover Materials: Fine-Tuning of the Ligand Size. <i>Chemistry - A European Journal</i> , 2018 , 24, 5271-5280	4.8	6
52	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	3.2	3
51	Microwave alkylation of lithium tetrazolate. <i>Monatshefte für Chemie</i> , 2017 , 148, 131-137	1.4	2
50	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. <i>Solar Energy</i> , 2017 , 153, 11-24	6.8	23
49	High-Temperature Energy Storage: Kinetic Investigations of the CuO/Cu ₂ O Reaction Cycle. <i>Energy & Fuels</i> , 2017 , 31, 2324-2334	4.1	32
48	Pikomolare Spuren von AmIII verursachen drastische Unterschiede in der Koordinationschemie von TbIII: ein Sprung über die Gadoliniumecke □ <i>Angewandte Chemie</i> , 2017 , 129, 13448-13453	3.6	1
47	Innentitelbild: Pikomolare Spuren von AmIII verursachen drastische Unterschiede in der Koordinationschemie von TbIII: ein Sprung über die Gadoliniumecke □ (<i>Angew. Chem.</i> 43/2017). <i>Angewandte Chemie</i> , 2017 , 129, 13334-13334	3.6	
46	Measuring Sodium Migration in Mold Compounds Using a Sodium Amalgam Electrode as an Infinite Source 2017 ,		1
45	Picomolar Traces of Americium(III) Introduce Drastic Changes in the Structural Chemistry of Terbium(III): A Break in the "Gadolinium Break". <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13264-13269	16.4	5
44	Probing cycle stability and reversibility in thermochemical energy storage □ Ca ₂ O ₄ □ H ₂ O as perfect match?. <i>Applied Energy</i> , 2017 , 187, 1-9	10.7	17
43	ATR or transmission □ a variable temperature study comparing both techniques using [Fe(3ditz) ₃](BF ₄) ₂ as model system. <i>Vibrational Spectroscopy</i> , 2016 , 86, 198-205	2.1	3
42	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. <i>Magnetochemistry</i> , 2016 , 2, 12	3.1	6
41	Systematic search algorithm for potential thermochemical energy storage systems. <i>Applied Energy</i> , 2016 , 183, 113-120	10.7	35
40	200 Jahre Chemiestudium. Vom K. K. Polytechnischen Institut Zur Technischen Universität Wien 2015 , 17-34		
39	Six-coordinate high-spin iron(ii) complexes with bidentate PN ligands based on 2-aminopyridine - new Fe(ii) spin crossover systems. <i>Dalton Transactions</i> , 2014 , 43, 11152-64	4.3	10
38	An unusually water-poor 5,5'-azobistetrazolate of dysprosium: stabilization of a nitrogen-rich heterocycle by a minimum of hydrogen bonds. <i>New Journal of Chemistry</i> , 2013 , 37, 3840	3.6	7

37	Spectroscopic, structural and magnetic investigations of iron(II) complexes based on 1-isopropyl- and 1-isobutyl-substituted tetrazole ligands. <i>Inorganica Chimica Acta</i> , 2013 , 396, 92-100	2.7	11
36	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)](BF). <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 984-991	2.3	14
35	Peer review versus editorial review and their role in innovative science. <i>Theoretical Medicine and Bioethics</i> , 2012 , 33, 359-76	0.9	12
34	Nitrogen-rich compounds of the actinoids: dioxouranium(VI) 5,5'-azobis[tetrazolide] pentahydrate and its unusually small uranyl angle. <i>Inorganic Chemistry</i> , 2012 , 51, 6739-45	5.1	11
33	Clinically available iron chelators induce neuroprotection in the 6-OHDA model of Parkinson's disease after peripheral administration. <i>Journal of Neural Transmission</i> , 2011 , 118, 223-31	4.3	99
32	Highly reactive oxygen species: detection, formation, and possible functions. <i>Cellular and Molecular Life Sciences</i> , 2011 , 68, 2067-79	10.3	115
31	Fe(II) spin-crossover compounds based on the extremely versatile ligand system of 1-substituted tetrazoles: a comparative study. <i>Hyperfine Interactions</i> , 2009 , 191, 81-86	0.8	
30	Two new Fe(II) spin crossover complexes with tetrazol-1-yl-cycloalkane ligands. <i>Inorganica Chimica Acta</i> , 2009 , 362, 3629-3636	2.7	14
29	Fe(II) spin-crossover compounds based on the extremely versatile ligand system of 1-substituted tetrazoles: a comparative study 2009 , 411-416		
28	Comparative investigations on a series of [hexakis(1-(tetrazol-1-yl)alkane-N4)iron(II)] bis(tetrafluoroborate) spin crossover complexes: Methyl- to butyl-substituted species. <i>Inorganica Chimica Acta</i> , 2008 , 361, 1291-1297	2.7	16
27	[Fe(μ -btzmp) ₂ (btzmp) ₂](ClO ₄) ₂ : a doubly-bridged 1D spin-transition bistetrazole-based polymer showing thermal hysteresis behaviour. <i>Dalton Transactions</i> , 2007 , 5434-40	4.3	51
26	Synthesis, structure, spectroscopic and magnetic characterization of a novel spin-crossover iron(II) complex with 1-cyclopropyltetrazole ligands. <i>Inorganica Chimica Acta</i> , 2007 , 360, 3987-3996	2.7	17
25	Monodispersed nanocrystalline Co _{1-x} Zn _x Fe ₂ O ₄ particles by forced hydrolysis: Synthesis and characterization. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 46-50	2.8	76
24	Both spacer length and parity influence the thermal and light-induced properties of iron(II) alpha,omega-bis(tetrazole-1-yl)alkane coordination polymers. <i>Chemistry - A European Journal</i> , 2006 , 12, 2235-43	4.8	75
23	Synthesis and characterisation of tetrazole compounds: 3 series of new ligands representing versatile building blocks for iron(II) spin-crossover compounds. <i>Journal of Molecular Structure</i> , 2005 , 733, 41-52	3.4	44
22	Synthesis and characterisation of new ditetrazole-ligands as more rigid building blocks of envisaged iron(II) spin-crossover coordination polymers. <i>Journal of Molecular Structure</i> , 2005 , 741, 159-169	3.4	20
21	Variable temperature far and mid FT-IR as a valuable tool to determine the spin transition temperature of iron(II) spin-crossover coordination compounds. <i>Vibrational Spectroscopy</i> , 2004 , 34, 175-186	2.1	22
20	Structure and physical properties of [micro-tris(1,4-bis(tetrazol-1-yl)butane-N ₄ ,N _{4'})iron(II)] bis(hexafluorophosphate), a new Fe(II) spin-crossover compound with a three-dimensional threefold interlocked crystal lattice. <i>Inorganic Chemistry</i> , 2004 , 43, 155-65	5.1	114

19	Spin Transition of 1D, 2D and 3D Iron(II) Complex Polymers The Tug-of-War between Elastic Interaction and a Shock-Absorber Effect. <i>Monatshefte Für Chemie</i> , 2003 , 134, 183-198	1.4	16
18	Magnetic, ⁵⁷ Fe Mössbauer, and IR Monitoring of the Thermal Spin Transition in a New Family of Iron(II) Spin-Transition Complexes. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 2273-2282	2.3	35
17	A thermal decomposition study on cobalt(II) complexes of 1,2-di(imino-4?-antipyrinyl)ethane. <i>Thermochimica Acta</i> , 2003 , 400, 29-36	2.9	13
16	Synthesis and thermal studies on iron(III) complexes of 4-N-(4?-antipyrilmethylidene)aminoantipyrine with varying counter ions. <i>Thermochimica Acta</i> , 2003 , 407, 73-84	2.9	23
15	Theoretical description of phenomena observed in a systematic study of the spin crossover in Fe(II) complexes with halogenated ethyltetrazoles. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 3676	3.6	18
14	Theoretical description of phenomena observed in a systematic study of the spin crossover in Fe(II) complexes with halogenated ethyltetrazoles. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 3666	3.6	18
13	Antipyrine and its Derivatives with First Row Transition Metals. <i>Reviews in Inorganic Chemistry</i> , 2003 , 23, 1-24	2.4	17
12	catena-[Tris(1,2-bis(tetrazol-1-yl)ethane-N4,N4?)iron(II)] bis(tetrafluoroborate): synthesis, structure, spectroscopic and magnetic characterization of a chain-type coordination polymer spin-crossover compound. <i>Inorganica Chimica Acta</i> , 2002 , 339, 297-306	2.7	76
11	Spin Transition of 1D, 2D and 3D Iron(II) Complex Polymers The Tug-of-War between Elastic Interaction and a Shock-Absorber Effect 2002 , 67-82		
10	A Novel Salt Formed by Mixed-Valence Vanadium(IV, V) [(VO)2O(bpy)2(C2O4)2] Anions and Ferromagnetic [Cu2(bpy)4(C2O4)] Cations: Structure, Spectroscopic Characterization and Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2001 , 2001, 2061-2966	2.3	23
9	A novel mixed valence copper(I)–copper(II)bis(antipyrinyl-methyl)-piperazine complex: synthesis, molecular structure and spectroscopic characterization. <i>Journal of Molecular Structure</i> , 2000 , 519, 21-31	3.4	10
8	Enzyme-mimetic model compounds: conformational analysis and far-IR study of Cu(TAAB)2+. <i>Journal of Inorganic Biochemistry</i> , 2000 , 79, 53-7	4.2	5
7	Synthesis, Spectral and Magnetic Investigation of 4-(2-pyridyl)-1-salicylaldehyde-3-thiosemicarbazone. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2000 , 30, 1759-1772		9
6	Direct Synthesis of Polynuclear Complexes. <i>Reviews in Inorganic Chemistry</i> , 2000 , 20, 255-282	2.4	4
5	Halide-bridged tetranuclear copper(II) complexes: structural, vibrational and magnetic properties of (μ-oxo)-hexakis(μ-chloro)-tetrakis[(morpholine)-copper(II)]. <i>Journal of Molecular Structure</i> , 1998 , 446, 115-126	3.4	11
4	Structural and vibrational properties of dichlorobis (triphenylphosphineoxide) copper(ii). <i>Journal of Coordination Chemistry</i> , 1997 , 42, 171-180	1.6	2
3	Tetranuclear copper(II)-complexes with bridging bromo- and chloro-ligands and terminal iodo-ligands. <i>Journal of Molecular Structure</i> , 1995 , 348, 437-440	3.4	1
2	Tetranuclear mixed halide copper-complexes: A far-FTIR investigation of peripheric isomerism. <i>Journal of Molecular Structure</i> , 1993 , 293, 71-74	3.4	2

- 1 Vibrational spectroscopy to analyze peripheral isomerism in tetranuclear mixed halide copper(II)-complexes. *Vibrational Spectroscopy*, **1993**, 5, 101-108

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