

Petra J Van Koningsbruggen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Novel Hybrid Spin Systems of 7,7aε,8,8aε-Tetracyanoquinodimethane (TCNQ) Radical Anions and 4-Amino-3,5-bis(pyridin-2-yl)-1,2,4-triazole (abpt). Crystal Structure of [Fe(abpt) ₂ (TCNQ) ₂] at 298 and 100 K, Mössbauer Spectroscopy, Magnetic Properties, and Infrared Spectroscopy of the Series [M(abpt) ₂ (TCNQ) ₂] (M = Mn, Fe, Co, Ni, Cu, Zn). <i>Journal of the American Chemical Society</i> , 1996, 118, 2180-2187.	6.6	163
2	Synthesis, Crystal Structure, EXAFS, and Magnetic Properties of Catena [1/4-Tris(1,2-bis(tetrazol-1-yl)propane-N1,N1â€²)iron(II)] Bis(perchlorate). First Crystal Structure of an Iron(II) Spin-Crossover Chain Compound. <i>Inorganic Chemistry</i> , 2000, 39, 1891-1900.	1.9	157
3	Non-classical Fell spin-crossover behaviour leading to an unprecedented extremely large apparent thermal hysteresis of 270 K: application for displays. <i>Journal of Materials Chemistry</i> , 1997, 7, 857-858.	6.7	145
4	Influences of Temperature, Pressure, and Lattice Solvents on the Spin Transition Regime of the Polymeric Compound [Fe(hyetrz) ₃] ₂ ·3H ₂ O (hyetrz = 4-(2â€²-hydroxyethyl)-1,2,4-triazole and A=) <i>J. Polym. Sci. Part B: Polym. Phys.</i> 2007, 45, 1071-1078.	6.7	107
5	Synthesis, Crystal Structure, EXAFS, and Magnetic Properties of catena-Poly[1/4-tris(4-(2-hydroxyethyl)-1,2,4-triazole-N1,N2)copper(II)] Diperchlorate Trihydrate:â€‰% Relevance with the Structure of the Iron(II) 1,2,4-Triazole Spin Transition Molecular Materials. <i>Inorganic Chemistry</i> , 1997, 36, 6357-6365.	1.9	129
6	Structure and Physical Properties of [1/4-Tris(1,4-bis(tetrazol-1-yl)butane-N4,N4â€²)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, 155-165.	1.9	117
7	Polymorphism in Spin Transition Systems. Crystal Structure, Magnetic Properties, and Mössbauer Spectroscopy of Three Polymorphic Modifications of [Fe(DPPA)(NCS) ₂] [DPPA = (3-Aminopropyl)bis(2-pyridylmethyl)amine]. <i>Inorganic Chemistry</i> , 1997, 36, 5869-5879.	1.9	105
8	Non-classical Fell spin-crossover behaviour in polymeric iron(II) compounds of formula [Fe(NH ₂ trz) ₃] ₂ ·X ₂ ·nH ₂ O (NH ₂ trz=4-amino-1,2,4-triazole; X=derivatives of naphthalene sulfonate). <i>Journal of Materials Chemistry</i> , 1997, 7, 2069-2075.	6.7	98
9	Isotropic and Anisotropic Magnetic Exchange Interactions through .mu.-N1,N2 1,2,4-Triazole and .mu.-Sulfato Bridges: X-ray Crystal Structure, Magnetic Properties, and Single-Crystal EPR Study of (.mu.-4-Amino-3,5-bis(pyridin-2-yl)-1,2,4-triazole-N',N1,N2,N'')(mu.-sulfato-O,O')[(sulfato-O)aquacopper(II)]triaquacopper(II) Hydrate. <i>Inorganic Chemistry</i> , 1995, 34, 5175-5182.	1.9	91
10	Isotropic Magnetic Exchange Interaction through Double .mu.-1,2,4-Triazolato-N1,N2 Bridges: X-ray Crystal Structure, Magnetic Properties, and EPR Study of Bis(.mu.-3-pyridin-2-yl-1,2,4-triazolato-N',N1,N2)(sulfato-O)aquacopper(II)diaquacopper(II) Trihydrate. <i>Inorganic Chemistry</i> , 1994, 33, 1121-1126.	1.9	80
11	catena-[1/4-Tris(1,2-bis(tetrazol-1-yl)ethane-N4,N4â€²)iron(II)] bis(tetrafluoroborate): synthesis, spectroscopic and magnetic characterization of a chain-type coordination polymer spin-crossover compound. <i>Inorganica Chimica Acta</i> , 2002, 339, 297-306.	1.2	79
12	Spin Transition in [Fe(DPEA)(NCS) ₂], a Compound with the New Tetradentate Ligand (2-Aminoethyl)bis(2-pyridylmethyl)amine (DPEA): Crystal Structure, Magnetic Properties, and Mössbauer Spectroscopy. <i>Inorganic Chemistry</i> , 1997, 36, 2975-2981.	1.9	73
13	A new 3-D polymeric spin transition compound: [tris(1,4-bis(tetrazol-1-yl)butane-N1,Nâ€²)iron(II)] bis(perchlorate). <i>Dalton Transactions RSC</i> , 2001, , 466-471.	2.3	73
14	Spin crossover in six-coordinate [Fe(L) ₂ (NCX) ₂] compounds with L = DPQ = 2,3-bis-(2â€²-pyridyl)-quinoxaline, ABPT = 4-amino-3,5-bis(pyridin-2-yl)-1,2,4-triazole and X = S, Se: synthesis, magnetic properties and single crystal studies. <i>Inorganica Chimica Acta</i> , 1998, 274, 1-6.	1.2	66
15	Synthesis, characterization, crystal structures and magnetic properties of di- and polynuclear bis(1/4-3-pyridin-2-yl-1,2,4-triazolato)copper(II) compounds containing N-methylimidazole, pyrazole or 4,4â€²-bipyridine as co-ligands. <i>Inorganica Chimica Acta</i> , 1993, 212, 289-301.	1.2	60
16	Light- and Temperature-Induced Electron Transfer in Single Crystals of RbMn[Fe(CN) ₆] ₂ ·H ₂ O. <i>Chemistry of Materials</i> , 2008, 20, 1236-1238.	3.2	59
17	A Mixed-Valence Tetranuclear Copper Cluster with Localized Valencies. <i>Inorganic Chemistry</i> , 1997, 36, 2487-2489.	1.9	58
18	[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.	1.6	55

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19	Interplay between the Charge Transport Phenomena and the Charge-Transfer Phase Transition in $Rb_xMn[Fe(CN)_6]_y \cdot zH_2O$. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2586-2593.	1.5	53
20	Synthesis, Crystal Structure, Spectroscopic and Magnetic Properties of an Unprecedented Three-Dimensional CuII Coordination Compound of 1,2-Bis(1,2,4-triazol-4-yl)ethane. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 307-314.	1.0	47
21	The Influence of Defects on the Electron-Transfer and Magnetic Properties of $Rb_xMn[Fe(CN)_6]_y \cdot zH_2O$. <i>Chemistry of Materials</i> , 2006, 18, 1951-1963.	3.2	47
22	Spin-Transition Molecular Materials for Display and Data Processing. <i>ACS Symposium Series</i> , 1996, , 298-310.	0.5	44
23	Synthesis, crystal structure and magnetic properties of a linear trinuclear copper(II) compound with chloride and 4-amino-3,5-bis(hydroxymethyl)-1,2,4-triazole as bridging ligands. <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 2163.	1.1	41
24	Magnetic and spectroscopic properties of a series of linear homo- and heterotrinuclear metal compounds with asymmetric 3,4-disubstituted 1,2,4-triazoles as ligands. <i>Inorganica Chimica Acta</i> , 1995, 239, 5-12.	1.2	41
25	A novel tetranuclear copper(II) cluster containing twisted hydrazide bridges. X-ray crystal structure octahydrate. <i>Inorganica Chimica Acta</i> , 1993, 208, 37-42.	1.2	37
26	Synthesis, X-ray structure, spectroscopic and magnetic properties of [bis(4-amino-3,5-bis(pyridin-2-yl)-1,2,4-triazole- N_1)-(aqua)copper(II)]bis(hydrogensulfate). <i>Inorganica Chimica Acta</i> , 1998, 268, 37-42.	1.2	31
27	Study of Neutral Fe(III) Complexes of Pyridoxal-N-Substituted Thiosemicarbazone with Desolvation-Induced Spin-State Transformation above Room Temperature. <i>Inorganic Chemistry</i> , 2008, 47, 143-153.	1.9	31
28	Crystal structure and physical properties of the new linear chain compound [Cu(1,2-bis(tetrazol-1-yl)ethane) ₃](ClO ₄) ₂ . <i>Inorganica Chimica Acta</i> , 2001, 326, 101-105.	1.2	29
29	Syntheses, spectroscopic and magnetic properties and X-ray crystal structure of two dinuclear copper(II) compounds with the ligand N ³ -salicyloylpyridine-2-carboxamidrazonato. <i>Inorganica Chimica Acta</i> , 1995, 234, 87-94.	1.2	28
30	Crystal structure and magnetic behaviour of a five-coordinate iron(III) complex of pyridoxal-4-methylthiosemicarbazone. <i>Inorganica Chimica Acta</i> , 2007, 360, 3896-3902.	1.2	28
31	Copper(II) complexes with unsymmetrical pentadentate ed3a-type diamino-tricarboxylate ligands. Crystal structures, configurational analysis and DFT study of complexes. <i>Inorganica Chimica Acta</i> , 2007, 360, 2420-2431.	1.2	27
32	Tuning of the charge in octahedral ferric complexes based on pyridoxal-N-substituted thiosemicarbazone ligands. <i>Dalton Transactions</i> , 2010, 39, 1643-1651.	1.6	27
33	Dalton communications. The first dinuclear μ -hexafluorosilicato copper(II) compound. Synthesis and crystal structure of (μ -hexafluorosilicato- F_6)-bis[aqua(N ³ -salicyloylpyridine-2-carboxamidrazonato- N_2, O)copper(II)] dihydrate. <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 483-484.	1.1	26
34	A 2D [FeII-bistetrazole] coordination polymer exhibiting spin-crossover properties. <i>Inorganica Chimica Acta</i> , 2007, 360, 3787-3796.	1.2	26
35	Synthesis and spin-crossover characteristics of polynuclear 4-(β -hydroxy-ethyl)-1,2,4-triazole Fe(II) molecular materials. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 1998, 1, 523-532.	0.1	21
36	Synthesis, crystal structure and magnetic properties of bis[μ_4 -bis(3-(pyridin-2-yl)-1,2,4-triazole- N_1, N_2)] bis[triaqua nickel(II)] tetranitrate. <i>Inorganica Chimica Acta</i> , 1998, 273, 54-61.	1.2	19

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37	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.	0.9	17
38	Prediction of the Equilibrium Structures and Photomagnetic Properties of the Prussian Blue Analogue $\text{RbMn}[\text{Fe}(\text{CN})_6]$ by Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5742-5748.	1.1	17
39	Synthetic, Crystallographic, and Computational Study of Copper(II) Complexes of Ethylenediaminetetracarboxylate Ligands. <i>Inorganic Chemistry</i> , 2013, 52, 1238-1247.	1.9	13
40	Observation of a 331K (58°C) spin transition for bis[hydrotris(1,2,4-triazol-1-yl)borate]iron(II) by variable temperature infrared spectroscopy and magnetic susceptibility measurements. <i>Solid State Sciences</i> , 2008, 10, 1804-1806.	1.5	8
41	Valence-Tautomeric RbMnFe Prussian Blue Analogues: Composition and Time Stability Investigation. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 760-768.	1.0	7
42	Nickel(II) complexes of whole set of the simple ethylenediaminetetracarboxylate ligands: DFT study of complexes invoking molecular orbital and configurational analysis. <i>Inorganic Chemistry Communication</i> , 2009, 12, 720-723.	1.8	7
43	Fellin a low-spin state in caesium bis[3-ethoxysalicylaldehyde 4-methylthiosemicarbazonato($2\text{-}i\text{-}^{\text{O}}_2\text{N}_1\text{S}$)]ferrate(III) methanol monosolvate. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014, 70, 595-598.	0.2	7
44	Caesium bis(5-bromosalicylaldehyde) Tj ETQqO O 0 rgBT /Overlock 10 Tf 50 472 Td (thiosemicarbazonato- $^{\text{O}}_3$ complex anions mediated by Cs^+ cations. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2015, 71, 169-174.	0.2	4
45	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.	0.2	2
46	Fe^{III} in a high-spin state in bis(5-bromosalicylaldehyde) Tj ETQqO O 0 rgBT /Overlock 10 Tf 50 392 Td (4-ethylthiosemicarbazonato) monohydrate, the first example of such a cationic Fe^{III} complex unit. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2022, 78, 63-69.	0.2	2
47	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.		0