Rafal Kulmaczewski

List of Publications by Year
in descending order

35 papers	980 citations	471509 17 h-index	434195 31 g-index
37 all docs	37 docs citations	37 times ranked	957 citing authors

#	Article	IF	Citations
1	A Unified Treatment of the Relationship Between Ligand Substituents and Spin State in a Family of Iron(II) Complexes. Angewandte Chemie - International Edition, 2016, 55, 4327-4331.	13.8	148
2	Remarkable Scan Rate Dependence for a Highly Constrained Dinuclear Iron(II) Spin Crossover Complex with a Wide Thermal Hysteresis Loop. Journal of the American Chemical Society, 2014, 136, 878-881.	13.7	118
3	Iron(II) Complexes of Tridentate Indazolylpyridine Ligands: Enhanced Spin-Crossover Hysteresis and Ligand-Based Fluorescence. Inorganic Chemistry, 2015, 54, 682-693.	4.0	76
4	Giant Barocaloric Effect at the Spin Crossover Transition of a Molecular Crystal. Advanced Materials, 2019, 31, e1807334.	21.0	75
5	Relationship between the Molecular Structure and Switching Temperature in a Library of Spin-Crossover Molecular Materials. Inorganic Chemistry, 2019, 58, 9811-9821.	4.0	56
6	Different Spinâ€State Behaviors in Isostructural Solvates of a Molecular Iron(II) Complex. Chemistry - A European Journal, 2016, 22, 1789-1799.	3.3	45
7	Effect of N⁴-Substituent Choice on Spin Crossover in Dinuclear Iron(II) Complexes of Bis-Terdentate 1,2,4-Triazole-Based Ligands. Inorganic Chemistry, 2013, 52, 11185-11199.	4.0	39
8	A Homologous Series of [Fe(H₂Bpz₂)₂(L)] Spin-Crossover Complexes with Annelated Bipyridyl Co-Ligands. Inorganic Chemistry, 2014, 53, 9809-9817.	4.0	37
9	Iron(II) Complexes of 2,4-Dipyrazolyl-1,3,5-triazine Derivativesâ€”The Influence of Ligand Geometry on Metal Ion Spin State. Inorganic Chemistry, 2017, 56, 8817-8828.	4.0	37
10	The role of symmetry breaking in the structural trapping of light-induced excited spin states. Chemical Communications, 2017, 53, 13268-13271.	4.1	34
11	Spin States of Homochiral and Heterochiral Isomers of [Fe(PyBox)₂]²⁺ Derivatives. Chemistry - A European Journal, 2017, 23, 9067-9075.	3.3	30
12	Supramolecular Iron Metallocubanes Exhibiting Site-Selective Thermal and Light-Induced Spin-Crossover. Journal of the American Chemical Society, 2019, 141, 18759-18770.	13.7	30
13	2,6-Bis(pyrazol-1-yl)pyridine-4-carboxylate Esters with Alkyl Chain Substituents and Their Iron(II) Complexes. Inorganic Chemistry, 2018, 57, 13761-13771.	4.0	25
14	Iron(<scp>ii</scp>) complexes of 4-sulfanyl-, 4-sulfinyl- and 4-sulfonyl-2,6-dipyrazolylpyridine ligands. A subtle interplay between spin-crossover and crystallographic phase changes. Inorganic Chemistry Frontiers, 2015, 2, 662-670.	6.0	24
15	A Unified Treatment of the Relationship Between Ligand Substituents and Spin State in a Family of Iron(II) Complexes. Angewandte Chemie, 2016, 128, 4399-4403.	2.0	24
16	Gradual Thermal Spin-Crossover Mediated by a Reentrant Zâ€² = 1 â†' Zâ€² = 6 â†' Zâ€² = 1 Phase Transition. Inorganic Chemistry, 2017, 56, 3144-3148.	4.0	23
17	Double template effect in [4 + 4] Schiff base macrocycle formation; an ESI-MS study. Dalton Transactions, 2011, 40, 12040.	3.3	19
18	The number and shape of lattice solvent molecules controls spin-crossover in an isomorphous series of crystalline solvate salts. Chemical Communications, 2021, 57, 6566-6569.	4.1	19

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19	An Incomplete Spin Transition Associated with a Zâ€²=1â†'Zâ€²=24â€...Crystallographic Symmetry Breaking. Chemistry - A European Journal, 2018, 24, 5055-5059.	3.3	15
20	A High Pressure Investigation of the Order-Disorder Phase Transition and Accompanying Spin Crossover in [FeL12](ClO4)2 (L1 = 2,6-bis{3-methylpyrazol-1-yl}-pyrazine). Magnetochemistry, 2016, 2, 9.	2.4	13
21	Structural Transformations and Spinâ€Crossover in [FeL₂]²⁺ Salts (L=4â€{tertâ€Butylsulfanyl}â€2,6â€di{pyrazolâ€1â€yl}pyridine): Theâ€‰Influence of Bulky Ligand Substituents. Chemistry - A European Journal, 2021, 27, 2082-2092.	3.3	13
22	The flexibility of long chain substituents influences spin-crossover in isomorphous lipid bilayer crystals. Chemical Communications, 2021, 57, 4039-4042.	4.1	13
23	Structure:function relationships for thermal and light-induced spin-crossover in isomorphous molecular materials. Journal of Materials Chemistry C, 2020, 8, 8420-8429.	5.5	11
24	Influence of ligand substituent conformation on the spin state of an iron(<scp>ii</scp>)/di(pyrazol-1-yl)pyridine complex. Dalton Transactions, 2021, 50, 3464-3467.	3.3	9
25	Elucidating the Structural Chemistry of a Hysteretic Iron(II) Spinâ€Crossover Compound From its Copper(II) and Zinc(II) Congeners. Chemistry - A European Journal, 2020, 26, 4833-4841.	3.3	8
26	The speciation of homochiral and heterochiral diastereomers of homoleptic cobalt(II) and zinc(II) PyBox complexes. Polyhedron, 2018, 149, 134-141.	2.2	5
27	Molecular squares, coordination polymers and mononuclear complexes supported by 2,4-dipyrazolyl-6H-1,3,5-triazine and 4,6-dipyrazolylpyrimidine ligands. Dalton Transactions, 2019, 48, 17310-17320.	3.3	5
28	Iron and Silver Complexes of 4â€(Imidazolâ€1â€yl)â€2,6â€di(pyrazolâ€1â€yl)â€pyridine (L), Including a [Fe₃(Âµâ€F)₂F₆L₈]⁺ Assembly. European Journal of Inorganic Chemistry, 2020, 2020, 4334-4340.	2.0	5
29	Modulating the Magnetic Properties of Copper(II)/Nitroxyl Heterospin Complexes by Suppression of the Jahnâ€“Teller Distortion. Inorganic Chemistry, 2020, 59, 8657-8662.	4.0	5
30	Five 2,6-Di(pyrazol-1-yl)pyridine-4-carboxylate Esters, and the Spin States of their Iron(II) Complexes. Magnetochemistry, 2019, 5, 9.	2.4	5
31	Iron(II) Complexes of 4-(Alkyldisulfanyl)-2,6-di(pyrazolyl)pyridine Derivatives. Correlation of Spin-Crossover Cooperativity with Molecular Structure Following Single-Crystal-to-Single-Crystal Desolvation. Crystal Growth and Design, 2022, 22, 1960-1971.	3.0	5
32	Structures and Spin States of Iron(II) Complexes of Isomeric 2,6-Di(1,2,3-triazolyl)pyridine Ligands. Inorganic Chemistry, 2021, 60, 14988-15000.	4.0	4
33	Structures and spin states of crystalline [Fe(NCS)₂L₂] and [FeL₃]²⁺complexes (L = an annelated 1,10-phenanthroline derivative). CrystEngComm, 2016, 18, 2570-2578.	2.6	3
34	Iron/2,6â€Di(pyrazolâ€1â€yl)pyridine Complexes with a Discotic Pattern of Alkyl or Alkynyl Substituents. European Journal of Inorganic Chemistry, 2021, 2021, 2999-3007.	2.0	2
35	Frontispiece: An Incomplete Spin Transition Associated with a Z â€²=1â†'Z â€²=24â€...Crystallographic Symmetry Breaking. Chemistry - A European Journal, 2018, 24, .	3.3	0