Azzedine Bousseksou

List of Publications by Year
in descending order

185	11,042	25034	34986
papers	citations	57 h-index	98 g-index

187	187	187	5360
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular spin crossover phenomenon: recent achievements and prospects. Chemical Society Reviews, 2011, 40, 3313.	38.1	1,163
2	Spin Crossover Nanomaterials: From Fundamental Concepts to Devices. Advanced Materials, 2018, 30, 1703862.	21.0	403
3	Two-step spin crossover in the new dinuclear compound [Fe(bt)(NCS)2]2bpym, with bt = 2,2'-bi-2-thiazoline and bpym = 2,2'-bipyrimidine: experimental investigation and theoretical approach. Journal of the American Chemical Society, 1992, 114, 4650-4658.	13.7	281
4	Spin Transitions and Thermal Hysteresis in the Molecular-Based Materials [Fe(Htrz)2(trz)](BF4) and [Fe(Htrz)3](BF4)2.cntdot.H2O (Htrz = 1,2,4-4H-triazole; trz = 1,2,4-triazolato). Chemistry of Materials, 1994, 6, 1404-1412.	6.7	260
5	Observation of a thermal hysteresis loop in the dielectric constant of spin crossover complexes: towards molecular memory devices. Journal of Materials Chemistry, 2003, 13, 2069-2071.	6.7	217
6	Switchable molecule-based materials for micro- and nanoscale actuating applications: Achievements and prospects. Coordination Chemistry Reviews, 2016, 308, 395-408.	18.8	206
7	Switching of Molecular Spin States in Inorganic Complexes by Temperature, Pressure, Magnetic Field and Light: Towards Molecular Devices. European Journal of Inorganic Chemistry, 2004, 2004, 4353-4369.	2.0	195
8	Two-step spin conversion of [FeII(5-NO2-sal-N(1,4,7,10))]: 292, 153, and 103 K x-ray crystal and molecular structure, infrared, magnetic, Moessbauer, calorimetric, and theoretical studies. Inorganic Chemistry, 1994, 33, 271-281.	4.0	192
9	Single-Laser-Shot-Induced Complete Bidirectional Spin Transition at Room Temperature in Single Crystals of (Fe^{II}(pyrazine)(Pt(CN)₄)). Journal of the American Chemical Society, 2008, 130, 9019-9024.	13.7	191
10	Charge Transport and Electrical Properties of Spin Crossover Materials: Towards Nanoelectronic and Spintronic Devices. Magnetochemistry, 2016, 2, 18.	2.4	166
11	A novel approach for fluorescent thermometry and thermal imaging purposes using spin crossover nanoparticles. Journal of Materials Chemistry, 2010, 20, 5499.	6.7	154
12	Thermal and Light-Induced Spin Crossover Phenomena in New 3D Hofmann-Like Microporous Metalorganic Frameworks Produced As Bulk Materials and Nanopatterned Thin Films. Chemistry of Materials, 2008, 20, 6721-6732.	6.7	152
13	Emerging properties and applications of spin crossover nanomaterials. Journal of Materials Chemistry C, 2014, 2, 1360-1366.	5.5	151
14	Spin crossover and photomagnetism in dinuclear iron(II) compounds. Coordination Chemistry Reviews, 2007, 251, 1822-1833.	18.8	144
15	Electric-Field-Induced Charge-Transfer Phase Transition: A Promising Approach Toward Electrically Switchable Devices. Journal of the American Chemical Society, 2009, 131, 15049-15054.	13.7	143
16	Synthesis, Structural, Magnetic, and Redox Properties of Asymmetric Diiron Complexes with a Single Terminally Bound Phenolate Ligand. Relevance to the Purple Acid Phosphatase Enzymes. Journal of the American Chemical Society, 1997, 119, 9424-9437.	13.7	141
17	Nanoâ€electromanipulation of Spin Crossover Nanorods: Towards Switchable Nanoelectronic Devices. Advanced Materials, 2013, 25, 1745-1749.	21.0	132
18	Photoswitching of the Dielectric Constant of the Spin-Crossover Complex [Fe(L)(CN)2]â‹…H2O. Angewandte Chemie - International Edition, 2006, 45, 1625-1629.	13.8	131

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19	Raman Spectroscopic Study of Pressure Effects on the Spin-Crossover Coordination Polymers Fe(Pyrazine)[M(CN)4]Â·2H2O (M = Ni, Pd, Pt). First Observation of a Piezo-Hysteresis Loop at Room Temperature. Journal of Physical Chemistry B, 2003, 107, 3149-3155.	2.6	129
20	Raman spectroscopy of the high- and low-spin states of the spin crossover complex Fe(phen)2(NCS)2: an initial approach to estimation of vibrational contributions to the associated entropy change. Chemical Physics Letters, 2000, 318, 409-416.	2.6	126
21	Spin Crossover in the 2,2â€˜-Bipyrimidine- (bpym-) Bridged Iron(II) Complexes [Fe(L)(NCX)2]2(bpym) (L = 2,) Tj ETQq1 1 0.784314 rgBT Calorimetric, and MÃ¶ssbauer Spectroscopy Studies. Inorganic Chemistry, 1997, 36, 455-464.	4.0	114
22	Vibrational Spectroscopy of Cyanide-Bridged, Iron(II) Spin-Crossover Coordination Polymers:Â Estimation of Vibrational Contributions to the Entropy Change Associated with the Spin Transitionâ€. Journal of Physical Chemistry B, 2002, 106, 9701-9707.	2.6	110
23	Solid State Effects on Spin Transitions: Magnetic, Calorimetric, and Moessbauer-Effect Properties of [FexCo1-x(4,4'-bis-1,2,4-triazole)2(NCS)2].cntdot.H2O Mixed-Crystal Compounds. Inorganic Chemistry, 1994, 33, 6325-6333.	4.0	109
24	Metal Dilution Effects on the Spin-Crossover Properties of the Three-Dimensional Coordination Polymer Fe(pyrazine)[Pt(CN)4]. Journal of Physical Chemistry B, 2005, 109, 14859-14867.	2.6	109
25	Enhanced Cooperative Interactions at the Nanoscale in Spin-Crossover Materials with a First-Order Phase Transition. Physical Review Letters, 2013, 110, 235701.	7.8	109
26	Synergetic Effect of Hostâ€“Guest Chemistry and Spin Crossover in 3D Hofmannâ€like Metalâ€“Organic Frameworks [Fe(bpac)M(CN)₄] (M=Pt, Pd, Ni). Chemistry - A European Journal, 2012, 18, 507-516.	3.3	107
27	Polymorphism in Spin Transition Systems. Crystal Structure, Magnetic Properties, and MÃ¶ssbauer Spectroscopy of Three Polymorphic Modifications of [Fe(DPPA)(NCS)2] [DPPA = (3-Aminopropyl)bis(2-pyridylmethyl)amine]. Inorganic Chemistry, 1997, 36, 5869-5879.	4.0	105
28	Thermal and Optical Switching of Molecular Spin States in the {[FeL[H2B(pz)2]2} Spin-Crossover System (L = bpy, phen)â€. Journal of Physical Chemistry B, 2002, 106, 4276-4283.	2.6	105
29	Antagonism between Extreme Negative Linear Compression and Spin Crossover in [Fe(dpp)₂(NCS)₂]â‹…py. Angewandte Chemie - International Edition, 2012, 51, 3910-3914.	13.8	105
30	Spin-crossover metalâ€“organic frameworks: promising materials for designing gas sensors. Journal of Materials Chemistry C, 2015, 3, 1277-1285.	5.5	102
31	Cooperative Spin Crossover and Orderâ^'Disorder Phenomena in a Mononuclear Compound [Fe(DAPP)(abpt)](ClO4)2 [DAPP = [Bis(3-aminopropyl)(2-pyridylmethyl)amine], abpt = 4-Amino-3,5-bis(pyridin-2-yl)-1,2,4-triazole]. Inorganic Chemistry, 2004, 43, 227-236.	4.0	100
32	Spin-Crossover Iron(II) Coordination Polymer with Zigzag Chain Structure. Chemistry of Materials, 2003, 15, 550-556.	6.7	97
33	Synthesis, Structure, and Magnetic Properties of Tetranuclear Cubane-like and Chain-like Iron(II) Complexes Based on the N4O Pentadentate Dinucleating Ligand 1,5-Bis[(2-pyridylmethyl)amino]pentan-3-ol. Inorganic Chemistry, 2002, 41, 1478-1491.	4.0	94
34	Vibrational spectrum of the spin crossover complex [Fe(phen)2(NCS)2] studied by IR and Raman spectroscopy, nuclear inelastic scattering and DFT calculations. Physical Chemistry Chemical Physics, 2006, 8, 4685-4693.	2.8	93
35	Current Switching Coupled to Molecular Spinâ€States in Largeâ€Area Junctions. Advanced Materials, 2016, 28, 7508-7514.	21.0	93
36	Nickel Complexes of Carboxylate-Containing Polydentate Ligands as Models for the Active Site of Urease. Inorganic Chemistry, 2004, 43, 8252-8262.	4.0	90

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37	Enhanced porosity in a new 3D Hofmann-like network exhibiting humidity sensitive cooperative spin transitions at room temperature. Journal of Materials Chemistry, 2011, 21, 7217.	6.7	90
38	New Ferrous Complexes Based on the 2,2'-Biimidazole Ligand: Structural, Moessbauer, and Magnetic Properties of [FeII(bimH2)2(CH3OH)2](OAc)2, [FeII(bimH2)3]CO3, [FeII(bimH)2]n, and {FeII(bim)}n. Inorganic Chemistry, 1995, 34, 5346-5357.	4.0	89
39	Novel Rectangular [Fe4(Î¼4-OHO)(Î¼-OH)2]7+versus â€œButterflyâ€•[Fe4(Î¼3-O)2]8+Core Topology in the FeIII/RCO2-/phen Reaction Systems (R = Me, Ph; phen = 1,10-Phenanthroline):Â Preparation and Properties of [Fe4(OHO)(OH)2(O2CMe)4(phen)4](ClO4)3, [Fe4O2(O2CPh)7(phen)2](ClO4), and [Fe4O2(O2CPh)8(phen)2]. Inorganic Chemistry, 2002, 41, 6474-6487.	4.0	82
40	Spin crossover composite materials for electrothermomechanical actuators. Journal of Materials Chemistry C, 2014, 2, 2949-2955.	5.5	82
41	Coupling Mechanical and Electrical Properties in Spin Crossover Polymer Composites. Advanced Materials, 2018, 30, 1705275.	21.0	76
42	Spin Transition in [Fe(DPEA)(NCS)2], a Compound with the New Tetradentate Ligand (2-Aminoethyl)bis(2-pyridylmethyl)amine (DPEA):Â Crystal Structure, Magnetic Properties, and MÃ¶ssbauer Spectroscopy. Inorganic Chemistry, 1997, 36, 2975-2981.	4.0	73
43	High-pressure spin-crossover in a dinuclear Fe(ii) complex. Physical Chemistry Chemical Physics, 2012, 14, 5265.	2.8	73
44	Synthesis, Structures, and Magnetic Properties of Novel Mononuclear, Tetranuclear, and 1D Chain MnIIIComplexes Involving Three Related Asymmetrical Trianionic Ligands. Inorganic Chemistry, 2004, 43, 2736-2744.	4.0	72
45	Two-Step Spin-Transition Iron(III) Compound with a Wide [High Spin-Low Spin] Plateau. Inorganic Chemistry, 2009, 48, 2128-2135.	4.0	72
46	Tetra- and Decanuclear Iron(II) Complexes of Thiacalixarene Macrocycles: Synthesis, Structure, MÃ¶ssbauer Spectroscopy and Magnetic Properties. European Journal of Inorganic Chemistry, 2006, 2006, 357-365.	2.0	68
47	Remarkably high-temperature spin transition exhibited by new 2D metalâ€“organic frameworks. Chemical Science, 2012, 3, 1629.	7.4	68
48	Spin crossover polymer composites, polymers and related soft materials. Coordination Chemistry Reviews, 2020, 419, 213396.	18.8	66
49	Soft lithographic patterning of spin crossover complexes. Part 1: fluorescent detection of the spin transition in single nano-objects. Journal of Materials Chemistry, 2012, 22, 3745.	6.7	65
50	Two-Step Spin Crossover in a Mononuclear Compound [Fe(DPEA)(bim)](ClO4)2Â·0.5ÂH2O[DPEA = (2-Aminoethyl)bis(2-pyridylmethyl)amine, bim = 2,2-Bisimidazole] â^' Crystal Structure, Magnetic Properties, MÃ¶ssbauer Spectroscopy, and Photomagnetic Effects. European Journal of Inorganic Chemistry, 2001, 2001, 2935.	2.0	64
51	Re-investigation of the spin crossover phenomenon in the ferrous complex [Fe(HB(pz)3)2]. New Journal of Chemistry, 2009, 33, 1283.	2.8	63
52	Soft Lithographic Patterning of Spin Crossover Nanoparticles. Langmuir, 2010, 26, 1557-1560.	3.5	63
53	Synthesis of Spinâ€Crossover Nanoâ€and Microâ€objects in Homogeneous Media. Chemistry - A European Journal, 2012, 18, 9946-9954.	3.3	63
54	Complete Set of Elastic Moduli of a Spin-Crossover Solid: Spin-State Dependence and Mechanical Actuation. Journal of the American Chemical Society, 2018, 140, 8970-8979.	13.7	60

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55	First Dicyanamideâ€Bridged Spinâ€Crossover Coordination Polymer: Synthesis, Structural, Magnetic, and Spectroscopic Studies. Chemistry - A European Journal, 2008, 14, 697-705.	3.3	59
56	Finite size effects in molecular spin crossover materials. New Journal of Chemistry, 2014, 38, 1834.	2.8	59
57	Towards Molecular Conductors with a Spin-Crossover Phenomenon:Crystal Structures, Magnetic Properties and MÃ¶ssbauer Spectra of[Fe(salten)Mepepy][M(dmit)2] Complexes. European Journal of Inorganic Chemistry, 2005, 2005, 3261-3270.	2.0	58
58	Structural investigation of the photoinduced spin conversion in the dinuclear compound {[Fe(bt)(NCS)2]2(bpym)}: toward controlled multi-stepped molecular switches. Journal of Applied Crystallography, 2007, 40, 158-164.	4.5	58
59	Unidirectional electric field-induced spin-state switching in spin crossover based microelectronic devices. Chemical Physics Letters, 2016, 644, 138-141.	2.6	58
60	Thermodynamical aspects of the spin crossover phenomenon. Comptes Rendus Chimie, 2018, 21, 1060-1074.	0.5	57
61	Molecular Spin Crossover Materials: Review of the Lattice Dynamical Properties. Annalen Der Physik, 2019, 531, 1900076.	2.4	57
62	Two-step spin-crossover phenomenon under high pressure in the coordination polymer Fe(3-methylpyridine)2[Ni(CN)4]. Chemical Physics Letters, 2006, 423, 152-156.	2.6	55
63	Synthesis of a BEDT-TTF Bipyridine Organic Donor and the First FeII Coordination Complex with a Redox-Active Ligand. European Journal of Inorganic Chemistry, 2006, 2006, 3498-3502.	2.0	55
64	Ligand Strain and the Nature of Spin Crossover in Binuclear Complexes: Twoâ€Step Spin Crossover in a 4,4â€²â€Bipyridineâ€Bridged Iron(II) Complex [{Fe(dpia)(NCS)₂}₂(4,4â€²â€bpy)] (dpia=di(2â€picolyl)amine; 4,4â€²â€bpy=4,4â€²â€bipyridine). Chemistry - A European Journal, 2009, 15, 10070-10082.	3.3	55
65	Vacuum deposition of high-quality thin films displaying spin transition near room temperature. Journal of Materials Chemistry C, 2017, 5, 4419-4425.	5.5	55
66	Mass Effect on the Equienergetic High-Spin/Low-Spin States of Spin-Crossover in 4,4â€˜-Bipyridine-Bridged Iron(II) Polymeric Compounds:Â Synthesis, Structure, and Magnetic, MÃ¶ssbauer, and Theoretical Studies. Inorganic Chemistry, 2002, 41, 6997-7005.	4.0	54
67	Two Novel Iron(II) Materials Based on Dianionic N4O2Schiff Bases:Â Structural Properties and		

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73	A Two-Step Spin Transition and Orderâ€“Disorder Phenomena in the Mononuclear Compound [Fe(Hpy-DAPP)](BF4)2. European Journal of Inorganic Chemistry, 2006, 2006, 2671-2682.	2.0	48
74	Metal-to-ligand and ligand-to-metal charge transfer in thin films of Prussian blue analogues investigated by X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2008, 10, 5882.	2.8	48
75	Structure and Ferromagnetic Interactions in Open-Shell Supramolecular Assemblies Constructed from Radical Cations and Hexacyanometallate Anions. Journal of the American Chemical Society, 1996, 118, 3610-3616.	13.7	47
76	Fe^{II}(pap-5NO₂)₂ and Fe^{II}(qsal-5NO₂)₂ Schiff-Base Spin-Crossover Complexes: A Rare Example with Photomagnetism and Room-Temperature Bistability. Inorganic Chemistry, 2015, 54, 1791-1799.	4.0	47
77	Raman spectroscopic and optical imaging of high spin/low spin domains in a spin crossover complex. Chemical Physics Letters, 2010, 499, 94-99.	2.6	46
78	Synthesis of spin crossover nano-objects with different morphologies and properties. New Journal of Chemistry, 2011, 35, 2081.	2.8	46
79	Guest Effect on Nanopatterned Spinâ€Crossover Thin Films. Small, 2011, 7, 3385-3391.	10.0	46
80	Unexpected isotope effect on the spin transition of the coordination polymer Fe(C5H5N)2[Ni(CN)4]Dedicated to Patrick Cassoux on the occasion of his retirement.. Physical Chemistry Chemical Physics, 2003, 5, 1682-1688.	2.8	44
81	A Model of Semimet Hemerythrin; NMR Spectroscopic Evidence of Valence Localization in Bis(Î¼-carboxylato)(Î¼-phenolato)diiron(II,III) Complexes in Solution. Angewandte Chemie International Edition in English, 1995, 34, 588-590.	4.4	42
82	Bidirectional photo-switching of the spin state of iron(II) ions in a triazol based spin crossover complex within the thermal hysteresis loop. Chemical Physics Letters, 2009, 477, 156-159.	2.6	42
83	Micro- and nanocrystals of the iron(iii) spin-transition material [FeIII(3-MeO-SalEen)2]PF6. Journal of Materials Chemistry, 2012, 22, 3411.	6.7	42
84	Micromachiningâ€Compatible, Facile Fabrication of Polymer Nanocomposite Spin Crossover Actuators. Advanced Functional Materials, 2018, 28, 1801970.	14.9	42
85	Magnetite Fe₃O₄ Has no Intrinsic Peroxidase Activity, and Is Probably not Involved in Alzheimer's Oxidative Stress. Angewandte Chemie - International Edition, 2018, 57, 14758-14763.	13.8	41
86	[FeII(TRIM)2]F2, the First Example of Spin Conversion Monitored by Molecular Vibrations. Inorganic Chemistry, 1996, 35, 110-115.	4.0	40
87	Non-extensivity of thermodynamics at the nanoscale in molecular spin crossover materials: a balance between surface and volume. Physical Chemistry Chemical Physics, 2014, 16, 7358.	2.8	40
88	One synthesis: two redox states. Temperature-oriented crystallization of a charge transfer {Fe₂Co₂} square complex in a {FeIILSCoIIILS}₂ diamagnetic or {FeIIILSCoIIHS}₂ paramagnetic state. RSC Advances, 2016, 6, 17456-17459.	3.6	39
89	The Ising-like model applied to switchable inorganic solids: discussion of the static properties. Comptes Rendus Chimie, 2003, 6, 385-393.	0.5	38
90	Triggering a Phase Transition by a Spatially Localized Laser Pulse: Role of Strain. Physical Review Letters, 2012, 109, 135702.	7.8	38

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91	The spin-crossover phenomenon in the solid state: Do domains play a role? A micro-Raman study. Chemical Physics Letters, 2003, 367, 593-598.	2.6	37
92	Tunable Spinâ€Crossover Behavior of the Hofmannâ€like Network {Fe(bpac)[Pt(CN)₄]} through Hostâ€“Guest Chemistry. Chemistry - A European Journal, 2013, 19, 15036-15043.	3.3	36
93	Synergistic switching of plasmonic resonances and molecular spin states. Nanoscale, 2013, 5, 5288.	5.6	34
94	Homoleptic Iron(II) Complexes with the Ionogenic Ligand 6,6â€²-Bis(1H-tetrazol-5-yl)-2,2â€²-bipyridine: Spin Crossover Behavior in a Singular 2D Spin Crossover Coordination Polymer. Inorganic Chemistry, 2015, 54, 7424-7432.	4.0	34
95	Triggering the spin-crossover of Fe(phen)2(NCS)2 by a pressure pulse. Pressure and magnetic field induce â€˜mirror effectsâ€™. Comptes Rendus Chimie, 2003, 6, 329-335.	0.5	33
96	Thermal and pressure-induced spin crossover in a novel three-dimensional Hoffman-like clathrate complex. New Journal of Chemistry, 2011, 35, 1205.	2.8	33
97	Light induced modulation of charge transport phenomena across the bistability region in [Fe(Htrz)₂(trz)](BF₄) spin crossover micro-rods. Physical Chemistry Chemical Physics, 2015, 17, 5151-5154.	2.8	33
98	On the stability of spin crossover materials: From bulk samples to electronic devices. Polyhedron, 2015, 102, 434-440.	2.2	33
99	Spin crossover polysaccharide nanocomposites. New Journal of Chemistry, 2013, 37, 3420.	2.8	31
100	4D printing with spin-crossover polymer composites. Journal of Materials Chemistry C, 2020, 8, 6001-6005.	5.5	31
101	High-spin to low-spin relaxation kinetics in the [Fe(TRIM)2]Cl2 complex. Physical Chemistry Chemical Physics, 2005, 7, 2909.	2.8	30
102	Soft lithographic patterning of spin crossover complexes. Part 2: stimuli-responsive diffraction grating properties. Journal of Materials Chemistry, 2012, 22, 3752.	6.7	30
103	Correlation between the Stoichiometry and the Bistability of Electronic States in Valence-Tautomeric RbxMn[Fe(CN)6]yÂ·zH2O Complexes. European Journal of Inorganic Chemistry, 2007, 2007, 1549-1555.	2.0	29
104	Magnetism and Molecular Nonlinear Optical Second-Order Response Meet in a Spin Crossover Complex. Journal of Physical Chemistry C, 2012, 116, 11251-11255.	3.1	29
105	[Fe(TPT)_{2/3}{M^I(CN)₂}₂]â‹…nSolv (M^I=Ag, Au): New Bimetallic Porous Coordination Polymers with Spinâ€Crossover Properties. Chemistry - A European Journal, 2013, 19, 6851-6861.	3.3	29
106	Tuning the spin crossover in nano-objects: From hollow to coreâ€“shell particles. Chemical Physics Letters, 2014, 607, 10-14.	2.6	29
107	Metal Substitution Effects on the Charge Transport and Spin Crossover Properties of [Fe_{1â€“x}Zn_x(Htrz)₂(trz)](BF₄) (trz =) Tj ETQq1 1 0.784314 rgBT /Ov	3.0	29
108	Piezoresistive Effect in the [Fe(Htrz)₂(trz)](BF₄) Spin Crossover Complex. Journal of Physical Chemistry Letters, 2017, 8, 3147-3151.	4.6	29

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109	Crystal structure, magnetic properties and MÃ¶ssbauer studies of [Fe(qsal)2][Ni(dmit)2]. Inorganica Chimica Acta, 2007, 360, 3870-3878.	2.4	28
110	Synthesis, Structure, and Magnetic and Redox Properties of Linear Bis-Dinuclear Complexes Afforded by Schiff Base Ligands Containing Catecholate and Pyridine or Imidazole Groups. Inorganic Chemistry, 1997, 36, 6279-6286.	4.0	27
111	Infrared detection of the hysteresis in the thermally induced spin-crossover in bis(4,4â€²-bis-1,2,4-triazole)bis(thiocyanato-N)iron(II) monohydrate. Inorganica Chimica Acta, 2000, 303, 287-290.	2.4	27
112	The spin-crossover phenomenon: towards molecular memories. Comptes Rendus Chimie, 2003, 6, 1175-1183.	0.5	27
113	Pressure tuning Raman spectroscopy of the spin crossover coordination polymer Fe(C5H5N)2[Ni(CN)4]. Journal of Physics Condensed Matter, 2004, 16, S1129-S1136.	1.8	27
114	AFM Imaging of Molecular Spinâ€State Changes through Quantitative Thermomechanical Measurements. Advanced Materials, 2014, 26, 2889-2893.	21.0	27
115	Intramolecular aspects of the electron transfer in the biferrocenium mixed-valence cation, using PKS theory. Chemical Physics, 1993, 170, 47-55.	1.9	25
116	Synthesis of Nanoscale Coordination Polymers in Femtoliter Reactors on Surfaces. ACS Nano, 2016, 10, 3206-3213.	14.6	25
117	Unprecedented Size Effect on the Phase Stability of Molecular Thin Films Displaying a Spin Transition. Journal of Physical Chemistry C, 2017, 121, 25617-25621.	3.1	25
118	Decoupling of the molecular spin-state and the crystallographic phase in the spin-crossover complex [Fe(ptz)6](BF4)2 studied by Raman spectroscopy. Chemical Physics Letters, 2005, 402, 503-509.	2.6	24
119	Laserâ€Induced Artificial Defects (LIADs): Towards the Control of the Spatiotemporal Dynamics in Spin Transition Materials. Advanced Materials, 2012, 24, 2475-2478.	21.0	23
120	High Spatial Resolution Imaging of Transient Thermal Events Using Materials with Thermal Memory. Small, 2016, 12, 6325-6331.	10.0	23
121	Heat- and Light-Induced Spin Transition of an Iron(II) Polymer Containing the 1,2,4,5-Tetrakis(diphenylphosphanyl)benzene Ligand. European Journal of Inorganic Chemistry, 2004, 2004, 3017-3019.	2.0	22
122	Magnetic Susceptibility Study of Subâ€Picoâ€emu Sample Using a Micromagnetometer: An Investigation through Bistable Spinâ€Crossover Materials. Advanced Materials, 2017, 29, 1703073.	21.0	22
123	Control of the Phase Stability in Spinâ€Crossover Coreâ€“Shell Nanoparticles through the Elastic Interface Energy. European Journal of Inorganic Chemistry, 2018, 2018, 435-442.	2.0	22
124	Spin-Crossover in an Exfoliated 2D Coordination Polymer and Its Implementation in Thermochromic Films. ACS Applied Nano Materials, 2018, 1, 2662-2668.	5.0	22
125	Series of M^I[Co(bpy)₃][Mo(CN)₈]Â·nH₂O (M^I= Li (1), K (2), Rb (3), Cs (4);n= 7â^'8) Exhibiting Reversible Diamagnetic to Paramagnetic Transition Coupled with Dehydrationâ^'Rehydration Process. Inorganic Chemistry, 2010, 49, 2765-2772.	4.0	21
126	Mechano-electric coupling in P(VDFâ€“TrFE)/spin crossover composites. Journal of Materials Chemistry C, 2020, 8, 6042-6051.	5.5	21

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127	One laser shot induced complete phase transition in the spin crossover complex Fe(pyrazine)[Pt(CN)4]. Polyhedron, 2009, 28, 1610-1613.	2.2	20
128	Cellulose fiber nanocomposites displaying spin-crossover properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 456, 35-40.	4.7	20
129	Synthesis of [Fe(hptrz)3](OTs)2 spin crossover nanoparticles in microemulsion. Polyhedron, 2012, 38, 245-250.	2.2	19
130	Investigation of surface energies in spin crossover nanomaterials: the role of surface relaxations. Physical Chemistry Chemical Physics, 2017, 19, 12276-12281.	2.8	19
131	Isotope effects on the vibrational spectra of the Fe(Phen)2(NCS)2 spin-crossover complex studied by density functional calculations. Comptes Rendus Chimie, 2005, 8, 1317-1325.	0.5	18
132	Temperature and pressure effects on the spin state of ferric ions in the [Fe(sal2-trien)][Ni(dmit)2] spin crossover complex. Journal of Physics and Chemistry of Solids, 2008, 69, 2681-2686.	4.0	18
133	CdTe Quantum Dot Fluorescence Modulation by Spin Crossover. Magnetochemistry, 2016, 2, 11.	2.4	18
134	Raman and nuclear inelastic scattering study of the lattice dynamics of the [Fe(H 2 B(pz) 2) 2 (phen)] spin crossover complex. Chemical Physics Letters, 2016, 653, 131-136.	2.6	18
135	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. Inorganica Chimica Acta, 2008, 361, 1291-1297.	2.4	17
136	Spectroscopic and Magnetic Properties of the Metastable States in the Coordination Network [{Co(prm)₂}₂{Co(H₂O)₂}{W(CN)₈}₂]Â·4H₂O (prm = pyrimidine). Inorganic Chemistry, 2012, 51, 2852-2859.	4.3	17
137	In memoriam of Professor John J. McGarvey. Comptes Rendus Chimie, 2018, 21, 1055-1055.	0.5	17
138	A New Type of Trinuclear Oxoiron(III) Cluster. Angewandte Chemie International Edition in English, 1995, 34, 205-207.	4.4	16
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