Gabor Molnar

List of Publications by Year
in descending order

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233	12,665	25034	31849
papers	citations	57	101
		h-index	g-index

245	245	245	5973
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	One Shot Laser Pulse Induced Reversible Spin Transition in the Spin-Crossover Complex [Fe(C4H4N2){Pt(CN)4}] at Room Temperature. Angewandte Chemie - International Edition, 2005, 44, 4069-4073.	13.8	294
4	Multilayer Sequential Assembly of Thin Films That Display Room-Temperature Spin Crossover with Hysteresis. Angewandte Chemie - International Edition, 2006, 45, 5786-5789.	13.8	267
5	Probing the 3d Spin Momentum with X-ray Emission Spectroscopy:Â The Case of Molecular-Spin Transitions. Journal of Physical Chemistry B, 2006, 110, 11647-11653.	2.6	265
6	Molecular actuators driven by cooperative spin-state switching. Nature Communications, 2013, 4, 2607.	12.8	221
7	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
8	Switchable molecule-based materials for micro- and nanoscale actuating applications: Achievements and prospects. Coordination Chemistry Reviews, 2016, 308, 395-408.	18.8	206
9	A Combined Topâ€Down/Bottomâ€Up Approach for the Nanoscale Patterning of Spinâ€Crossover Coordination Polymers. Advanced Materials, 2007, 19, 2163-2167.	21.0	202
10	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
11	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
12	Towards the Ultimate Size Limit of the Memory Effect in Spinâ€Crossover Solids. Angewandte Chemie - International Edition, 2008, 47, 8236-8240.	13.8	189
13	Charge Transport and Electrical Properties of Spin Crossover Materials: Towards Nanoelectronic and Spintronic Devices. Magnetochemistry, 2016, 2, 18.	2.4	166
14	A two-step spin crossover mononuclear iron(ii) complex with a [HSâ€“LSâ€“LS] intermediate phase. Chemical Communications, 2008, , 5619.	4.1	156
15	A novel approach for fluorescent thermometry and thermal imaging purposes using spin crossover nanoparticles. Journal of Materials Chemistry, 2010, 20, 5499.	6.7	154
16	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
17	Spin Crossover at the Nanometre Scale. European Journal of Inorganic Chemistry, 2013, 2013, 653-661.	2.0	151
18	Emerging properties and applications of spin crossover nanomaterials. Journal of Materials Chemistry C, 2014, 2, 1360-1366.	5.5	151

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19	Spin crossover and photomagnetism in dinuclear iron(II) compounds. Coordination Chemistry Reviews, 2007, 251, 1822-1833.	18.8	144
20	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
21	Spin state dependence of electrical conductivity of spin crossover materials. Chemical Communications, 2012, 48, 4163-4165.	4.1	140
22	Nanoâ€electromanipulation of Spin Crossover Nanorods: Towards Switchable Nanoelectronic Devices. Advanced Materials, 2013, 25, 1745-1749.	21.0	132
23	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
24	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
25	The Effect of an Active Guest on the Spin Crossover Phenomenon. Angewandte Chemie - International Edition, 2013, 52, 1198-1202.	13.8	119
26	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
27	Electrical properties and non-volatile memory effect of the [Fe(HB(pz)3)2] spin crossover complex integrated in a microelectrode device. Applied Physics Letters, 2011, 99, .	3.3	110
28	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
29	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
30	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
31	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
32	Spin-crossover metalâ€“organic frameworks: promising materials for designing gas sensors. Journal of Materials Chemistry C, 2015, 3, 1277-1285.	5.5	102
33	Influence of Sample Preparation, Temperature, Light, and Pressure on the Two-Step Spin Crossover Mononuclear Compound [Fe(bapbpy)(NCS)₂]. Chemistry of Materials, 2009, 21, 1123-1136.	6.7	101
34	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
35	Spin-Crossover Iron(II) Coordination Polymer with Zigzag Chain Structure. Chemistry of Materials, 2003, 15, 550-556.	6.7	97
36	Current Switching Coupled to Molecular Spinâ€States in Largeâ€Area Junctions. Advanced Materials, 2016, 28, 7508-7514.	21.0	93

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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	Introducing HYPERMET-PC for automatic analysis of complex gamma-ray spectra. Journal of Radioanalytical and Nuclear Chemistry, 1997, 215, 271-277.	1.5	87
39	Spin crossover composite materials for electrothermomechanical actuators. Journal of Materials Chemistry C, 2014, 2, 2949-2955.	5.5	82
40	Selective Photoswitching of the Binuclear Spin Crossover Compound{[Fe(bt)(NCS)2]2(bpm)}into Two Distinct Macroscopic Phases. Physical Review Letters, 2005, 94, 107205.	7.8	81
41	Reâ€Appearance of Cooperativity in Ultraâ€Small Spinâ€Crossover [Fe(pz){Ni(CN)₄}] Nanoparticles. Angewandte Chemie - International Edition, 2014, 53, 10894-10898.	13.8	76
42	Coupling Mechanical and Electrical Properties in Spin Crossover Polymer Composites. Advanced Materials, 2018, 30, 1705275.	21.0	76
43	Cooperative spin crossover phenomena in [Fe(NH2trz)3](tosylate)2 nanoparticles. Chemical Communications, 2010, 46, 8011.	4.1	74
44	High-pressure spin-crossover in a dinuclear Fe(ii) complex. Physical Chemistry Chemical Physics, 2012, 14, 5265.	2.8	73
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	Hardâ€Xâ€rayâ€Induced Excitedâ€Spinâ€State Trapping. Angewandte Chemie - International Edition, 2007, 46, 5306-5309.	13.8	69
47	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
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	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
51	Soft Lithographic Patterning of Spin Crossover Nanoparticles. Langmuir, 2010, 26, 1557-1560.	3.5	63
52	Synthesis of Spinâ€Crossover Nanoâ€and Microâ€objects in Homogeneous Media. Chemistry - A European Journal, 2012, 18, 9946-9954.	3.3	63
53	Electronic communication between fluorescent pyrene excimers and spin crossover complexes in nanocomposite particles. Journal of Materials Chemistry C, 2015, 3, 5026-5032.	5.5	63
54	Pressure effect investigations on spin-crossover coordination compounds. Comptes Rendus Chimie, 2018, 21, 1095-1120.	0.5	60

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55	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
56	Light- and Temperature-Induced Electron Transfer in Single Crystals of RbMn[Fe(CN)₆]Â·H₂O. Chemistry of Materials, 2008, 20, 1236-1238.	6.7	59
57	Finite size effects in molecular spin crossover materials. New Journal of Chemistry, 2014, 38, 1834.	2.8	59
58	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
59	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
60	Unidirectional electric field-induced spin-state switching in spin crossover based microelectronic devices. Chemical Physics Letters, 2016, 644, 138-141.	2.6	58
61	Molecular Spin Crossover Materials: Review of the Lattice Dynamical Properties. Annalen Der Physik, 2019, 531, 1900076.	2.4	57
62	Spin crossover behavior in a family of iron(ii) zigzag chain coordination polymers. Dalton Transactions, 2007, , 934-942.	3.3	56
63	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
64	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
65	Interplay between the Charge Transport Phenomena and the Charge-Transfer Phase Transition in Rb_xMn[Fe(CN)₆]_yÂ·zH₂O. Journal of Physical Chemistry C, 2009, 113, 2586-2593.	3.1	53
66	High quality nano-patterned thin films of the coordination compound {Fe(pyrazine)[Pt(CN)4]} deposited layer-by-layer. New Journal of Chemistry, 2011, 35, 2089.	2.8	53
67	Hybrid spin-crossover nanostructures. Beilstein Journal of Nanotechnology, 2014, 5, 2230-2239.	2.8	53
68	Pressure-induced two-step spin transition with structural symmetry breaking: X-ray diffraction, magnetic, and Raman studies. Physical Review B, 2011, 84, .	3.2	51
69	Thermal degradation of chemically modified polysulfones. Polymer Degradation and Stability, 2005, 89, 410-417.	5.8	50
70	The new prompt gamma-activation analysis facility at Budapest. Journal of Radioanalytical and Nuclear Chemistry, 1997, 215, 111-115.	1.5	49
71	Surface Plasmons Reveal Spin Crossover in Nanometric Layers. Journal of the American Chemical Society, 2011, 133, 15342-15345.	13.7	49
72	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

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73	Wavelength selective light-induced magnetic effects in the binuclear spin crossover compound{[Fe(bt)(NCS)2]2(bpym)}. Physical Review B, 2007, 75, .	3.2	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	A Bistable Microelectromechanical System Actuated by Spinâ€Crossover Molecules. Angewandte Chemie - International Edition, 2017, 56, 8074-8078.	13.8	48
76	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
77	Synthesis of spin crossover nano-objects with different morphologies and properties. New Journal of Chemistry, 2011, 35, 2081.	2.8	46
78	Guest Effect on Nanopatterned Spinâ€Crossover Thin Films. Small, 2011, 7, 3385-3391.	10.0	46
79	Lattice dynamics in spin-crossover nanoparticles through nuclear inelastic scattering. Physical Review B, 2015, 91, .	3.2	45
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	Symmetry breaking and light-induced spin-state trapping in a mononuclear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow><mml:mtext>II</mml:mtext></mml:mrow> with the two-step thermal conversion. Physical Review B, 2010, 82, .	3.2	43
82	High-temperature photo-induced switching and pressure-induced transition in a cooperative molecular spin-crossover material. Dalton Transactions, 2014, 43, 729-737.	3.3	43
83	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
84	Novel Approach for the Assembly of Highly Efficient SERS Substrates. ACS Applied Materials & Interfaces, 2009, 1, 2544-2550.	8.0	42
85	Enhanced luminescence stability with a Tbâ€“spin crossover nanocomposite for spin state monitoring. Chemical Communications, 2015, 51, 15098-15101.	4.1	42
86	Micromachiningâ€Compatible, Facile Fabrication of Polymer Nanocomposite Spin Crossover Actuators. Advanced Functional Materials, 2018, 28, 1801970.	14.9	42
87	Finite Size Effects on the Switching Dynamics of Spinâ€Crossover Thin Films Photoexcited by a Femtosecond Laser Pulse. Advanced Materials, 2019, 31, e1901361.	21.0	42
88	The photo-thermal plasmonic effect in spin crossover@silicaâ€“gold nanocomposites. Chemical Communications, 2014, 50, 13015-13018.	4.1	41
89	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
90	Solvatomorphism and structural-spin crossover property relationship in bis[hydrotris(1,2,4-triazol-1-yl)borate]iron(ii). CrystEngComm, 2017, 19, 3271-3280.	2.6	40

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91	Unprecedented switching endurance affords for high-resolution surface temperature mapping using a spin-crossover film. Nature Communications, 2020, 11, 3611.	12.8	40
92	Room temperature current modulation in large area electronic junctions of spin crossover thin films. Applied Physics Letters, 2018, 112, .	3.3	39
93	Triggering a Phase Transition by a Spatially Localized Laser Pulse: Role of Strain. Physical Review Letters, 2012, 109, 135702.	7.8	38
94	Dielectric and charge transport properties of the spin crossover complex [Fe(Htrz)₂(trz)](BF₄). Physica Status Solidi - Rapid Research Letters, 2014, 8, 191-193.	2.4	38
95	Microelectromechanical systems integrating molecular spin crossover actuators. Applied Physics Letters, 2016, 109, .	3.3	38
96	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
97	Unified dynamical description of pulsed magnetic field and pressure effects on the spin crossover phenomenon. Physical Review B, 2006, 74, .	3.2	37
98	Room Temperature Magnetic Detection of Spin Switching in Nanosized Spinâ€Crossover Materials. Angewandte Chemie - International Edition, 2013, 52, 1185-1188.	13.8	37
99	Hysteresis, nucleation and growth phenomena in spin-crossover solids. Solid State Sciences, 2017, 74, A1-A22.	3.2	37
100	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
101	Photoluminescence and thermoluminescence of titanium ions in sapphire crystals. Radiation Measurements, 2001, 33, 663-667.	1.4	35
102	Synergistic switching of plasmonic resonances and molecular spin states. Nanoscale, 2013, 5, 5288.	5.6	34
103	Celluloseâ€“spin crossover particle composite papers with reverse printing performance: a proof of concept. Journal of Materials Chemistry C, 2015, 3, 7897-7905.	5.5	34
104	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
105	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
106	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
107	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
108	On the stability of spin crossover materials: From bulk samples to electronic devices. Polyhedron, 2015, 102, 434-440.	2.2	33

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109	Spin crossover polysaccharide nanocomposites. New Journal of Chemistry, 2013, 37, 3420.	2.8	31
110	4D printing with spin-crossover polymer composites. Journal of Materials Chemistry C, 2020, 8, 6001-6005.	5.5	31
111	High-spin to low-spin relaxation kinetics in the [Fe(TRIM)2]Cl2 complex. Physical Chemistry Chemical Physics, 2005, 7, 2909.	2.8	30
112	Soft lithographic patterning of spin crossover complexes. Part 2: stimuli-responsive diffraction grating properties. Journal of Materials Chemistry, 2012, 22, 3752.	6.7	30
113	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
114	[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
115	Tuning the spin crossover in nano-objects: From hollow to coreâ€“shell particles. Chemical Physics Letters, 2014, 607, 10-14.	2.6	29
116	Metal Substitution Effects on the Charge Transport and Spin Crossover Properties of [Fe_{1â€“x}Zn_x(Htrz)₂(trz)](BF₄) (trz =) Tj ETQq0 0 0 rgBT /Overlock 10	3.1	29
117	Piezoresistive Effect in the [Fe(Htrz)₂(trz)](BF₄) Spin Crossover Complex. Journal of Physical Chemistry Letters, 2017, 8, 3147-3151.	4.6	29
118	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
119	Thermochromic Meltable Materials with Reverse Spin Transition Controlled by Chemical Design. Angewandte Chemie - International Edition, 2020, 59, 18632-18638.	13.8	28
120	Heat Capacity and Thermal Damping Properties of Spinâ€Crossover Molecules: A New Look at an Old Topic. Advanced Materials, 2020, 32, e2000987.	21.0	28
121	The spin-crossover phenomenon: towards molecular memories. Comptes Rendus Chimie, 2003, 6, 1175-1183.	0.5	27
122	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
123	Detection of molecular spin-state changes in ultrathin films by photonic methods. Journal of Nanophotonics, 2012, 6, 063517.	1.0	27
124	AFM Imaging of Molecular Spinâ€State Changes through Quantitative Thermomechanical Measurements. Advanced Materials, 2014, 26, 2889-2893.	21.0	27
125	Nanocrystals of Fe(phen)₂(NCS)₂ and the size-dependent spin-crossover characteristics. Dalton Transactions, 2015, 44, 17302-17311.	3.3	26
126	Synthesis of Nanoscale Coordination Polymers in Femtoliter Reactors on Surfaces. ACS Nano, 2016, 10, 3206-3213.	14.6	25

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127	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
128	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
129	Temperatureâ€•and Pressureâ€Induced Switching of the Molecular Spin State of an Orthorhombic Iron(III) Spinâ€Crossover Salt. European Journal of Inorganic Chemistry, 2013, 2013, 1001-1008.	2.0	24
130	Elastic coupling between spin-crossover particles and cellulose fibers. Chemical Communications, 2016, 52, 11267-11269.	4.1	24
131	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
132	High Spatial Resolution Imaging of Transient Thermal Events Using Materials with Thermal Memory. Small, 2016, 12, 6325-6331.	10.0	23
133	A Bistable Microelectromechanical System Actuated by Spinâ€Crossover Molecules. Angewandte Chemie, 2017, 129, 8186-8190.	2.0	23
134	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
135	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
136	Oxidation/Reduction Effects on the Thermoluminescence of?-Al2O3 Single Crystals. Physica Status Solidi A, 2000, 179, 249-260.	1.7	21
137	Elastic Ising-like model for the nucleation and domain formation in spin crossover molecular solids. European Physical Journal: Special Topics, 2013, 222, 1137-1159.	2.6	21
138	Mechano-electric coupling in P(VDFâ€“TrFE)/spin crossover composites. Journal of Materials Chemistry C, 2020, 8, 6042-6051.	5.5	21
139	Influence of the Irradiation Temperature on the Dosimetric and High-temperature TL peaks of Al2O3:C. Radiation Protection Dosimetry, 2002, 100, 139-142.	0.8	20
140	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
141	Photonic gratings of the metalâ€“organic framework {Fe(bpac)[Pt(CN)4]} with synergetic spin transition and hostâ€“guest properties. Dalton Transactions, 2013, 42, 16021.	3.3	20
142	Cellulose fiber nanocomposites displaying spin-crossover properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 456, 35-40.	4.7	20
143	Colossal expansion and fast motion in spin-crossover@polymer actuators. Materials Horizons, 2021, 8, 3055-3062.	12.2	20
144	The Role of Molecular Vibrations in the Spin Crossover Phenomenon. , 0, , 84-103.		19

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145	Synthesis of [Fe(hptrz)3](OTs)2 spin crossover nanoparticles in microemulsion. Polyhedron, 2012, 38, 245-250.	2.2	19
146	Investigation of surface energies in spin crossover nanomaterials: the role of surface relaxations. Physical Chemistry Chemical Physics, 2017, 19, 12276-12281.	2.8	19
147	Spatiotemporal dynamics of the spin transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>[</mml:mo><mml:mi>Fe</mml:mi><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi>Htrz</mml:mi><mml:msub><mml:mo>)</mml:mo><mml:mn>2</mml:mn></mml:msub><mml:mo>(</mml:mo><mml:mi>Trz</mml:mi><mml:mo>)</mml:mo></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mo>]</mml:mo><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:mi>BF</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mo>)</mml:mo></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> crystals. Physical Review B, 2017, 96, .	3.2	19
148	Finite-size effects on the lattice dynamics in spin crossover nanomaterials. I. Nuclear inelastic scattering investigation. Physical Review B, 2017, 96, .	3.2	19
149	Study of decomposition of sulphur hexafluoride by gas chromatography/mass spectrometry. Rapid Communications in Mass Spectrometry, 1997, 11, 1643-1648.	1.5	18
150	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
151	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
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