

CÃ©dric Desplanches

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Switching on thermal and light-induced spin crossover by desolvation of $[\text{Fe}(\text{3-bpp})_2](\text{XO})_4$ (X = Cl, Re) compounds. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3210-3221.	3.0	12
2	Supramolecular Iron Metallocubanes Exhibiting Site-Selective Thermal and Light-Induced Spin-Crossover. <i>Journal of the American Chemical Society</i> , 2019, 141, 18759-18770.	6.6	30
3	Light-Induced Excited Spin-State Trapping: A Methodological Approach. , 2019, , 198-198.		0
4	High-spin to low-spin relaxation kinetics and metal dilution effects in 1D spin-crossover chain compounds. <i>Polyhedron</i> , 2019, 159, 84-92.	1.0	6
5	Switchable Heteroleptic Mononuclear Iron(II) Complexes as Versatile Molecular Building Block. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2004-2010.	1.0	2
6	On the Effect of the Internal Pressure on the Photoinduced Spin-Crossover Behavior of $[\text{Fe}(\text{M})(1,10\text{-phenanthroline})_2(\text{NCS})_2]$ Solid Solutions (M = Ni, Zn, and Cd). <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 297-304.	1.0	13
7	Electronic and Structural Dynamics During the Switching of the Photomagnetic Complex $[\text{Fe}(\text{L})_2\text{N}_5(\text{CN})_2]$. <i>Chemistry - A European Journal</i> , 2018, 24, 5064-5069.	1.7	13
8	Spin-crossover compounds based on iron(II) complexes of 2,6-bis(pyrazol-1-yl)pyridine (bpp) functionalized with carboxylic acid and ethyl carboxylic acid. <i>Dalton Transactions</i> , 2018, 47, 16958-16968.	1.6	21
9	Light-induced spin crossover: Solution and solid-state processes. <i>Comptes Rendus Chimie</i> , 2018, 21, 1075-1094.	0.2	63
10	Seven-coordinated iron(II) spin-crossover molecules: some learning from iron substitution in $[\text{FeMn}_x(\text{L222N3O2})(\text{CN})_2] \cdot \text{H}_2\text{O}$ solid solutions. <i>Dalton Transactions</i> , 2018, 47, 14741-14750.	1.6	10
11	Solvatomorphism-Induced 45 K Hysteresis Width in a Spin-Crossover Mononuclear Compound. <i>Chemistry - A European Journal</i> , 2018, 24, 14760-14767.	1.7	29
12	Photomagnetic properties of an Fe(II) spin-crossover complex of 6-(3,5-diamino-2,4,6-triazinyl)-2,2'-bipyridine and its insertion into 2D and 3D bimetallic oxalate-based networks. <i>Dalton Transactions</i> , 2017, 46, 2680-2689.	1.6	10
13	Effects of metal dilution on the spin-crossover behavior and light induced bistability of iron(II) in $[\text{FeNi}_x(\text{bpp})_2](\text{NCS})_2$. <i>Polyhedron</i> , 2017, 123, 138-144.	1.0	16
14	Insertion of a $[\text{Fe}(\text{pyimH})_3]^{2+}$ [$\text{pyimH} = 2\text{-}[(1\text{-}[\text{H}]\text{imidazol-2-yl})\text{pyridine}]$] Spin-Crossover Complex Inside a Ferromagnetic Lattice Based on a Chiral 3D Bimetallic Oxalate Network. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2187-2192.	1.0	14
15	Crystal structure, characterization and magnetic properties of a 1D copper(II) polymer incorporating a Schiff base with carboxylate side arm. <i>Journal of Chemical Sciences</i> , 2016, 128, 913-920.	0.7	4
16	Towards synergy between spin-crossover and metal-ligand bond break in molecular crystals: structural investigations of eight seven-coordinated Fe(II) macrocyclic complexes. <i>CrystEngComm</i> , 2015, 17, 4075-4079.	1.3	7
17	Stereochemistry for engineering spin crossover: structures and magnetic properties of a homochiral vs. racemic $[\text{Fe}(\text{N}_3\text{O})_2(\text{CN})_2]$ complex. <i>Dalton Transactions</i> , 2015, 44, 6711-6714.	1.6	25
18	Spin-State Ordering on One Sublattice of a Mononuclear Iron(III) Spin Crossover Complex Exhibiting LIESST and TIESST. <i>Chemistry - A European Journal</i> , 2014, 20, 5613-5618.	1.7	83

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19	Relevant and unprecedented H ⁺ /f supramolecular interactions involving f-aromatic M ₂ X ₂ cores. Dalton Transactions, 2014, 43, 6195-6211.	1.6	9
20	Switching and redox isomerism in first-row transition metal complexes containing redox active Schiff base ligands. Dalton Transactions, 2014, 43, 15958-15967.	1.6	14
21	The role of iron(ii) dilution in the magnetic and photomagnetic properties of the series [Fe _x Zn _{1-x} (bpp) ₂](NCS) ₂ . Dalton Transactions, 2014, 43, 7820.	1.6	26
22	Unusual Solvent Dependence of a Molecule-Based Fe ^{II} Macrocyclic Spin-Crossover Complex. European Journal of Inorganic Chemistry, 2014, 2014, 4927-4933.	1.0	13
23	A new family of diamagnetic macrocyclic Fe(^{II}) compounds exhibiting the LIESST effect at high temperatures. Dalton Transactions, 2014, 43, 15346-15350.	1.6	11
24	An Investigation of Photo- and Pressure-Induced Effects in a Pair of Isostructural Two-Dimensional Spin-Crossover Framework Materials. Chemistry - A European Journal, 2014, 20, 7448-7457.	1.7	27
25	Reversible switching of the electronic ground state in a pentacoordinated Cu(ii) complex. Chemical Communications, 2013, 49, 7806.	2.2	13
26	Light-Induced Excited Spin-State Properties in 1D Iron(II) Chain Compounds. European Journal of Inorganic Chemistry, 2013, 2013, 2744-2750.	1.0	16
27	Stimuli Responsive Hybrid Magnets: Tuning the Photoinduced Spin-Crossover in Fe(III) Complexes Inserted into Layered Magnets. Journal of the American Chemical Society, 2013, 135, 8655-8667.	6.6	54
28	Framework Solids Based on Copper(II) Halides (Cl/Br) and Methylene-Bridged Bis(1-hydroxybenzotriazole): Synthesis, Crystal Structures, Magneto-Structural Correlation, and Density Functional Theory (DFT) Studies. Inorganic Chemistry, 2012, 51, 10148-10157.	1.9	33
29	W-Knotted Chain {[Cull(dien)] ₄ [WV(CN) ₈] ₅ } ⁵⁺ : Synthesis, Crystal Structure, Magnetism, and Theory. Inorganic Chemistry, 2011, 50, 3213-3222.	1.9	19
30	A hybrid magnet with coexistence of ferromagnetism and photoinduced Fe(iii) spin-crossover. Chemical Science, 2011, 2, 1121.	3.7	86
31	A Symmetry-Breaking Spin-State Transition in Iron(III). Angewandte Chemie - International Edition, 2011, 50, 896-900.	7.2	102
32	Substantial exchange coupling for {Mo-NCS-M} combination: illustration for 1-D [{Mo(NCS) ₆ }{NiL} ₂ (NCS)] _n . Chemical Communications, 2010, 46, 7519.	2.2	21
33	Mono-aqua-bridged dinuclear complexes of Cu(II) containing NNO donor Schiff base ligand: Hydrogen-bond-mediated exchange coupling. Journal of Molecular Structure, 2010, 965, 39-44.	1.8	22
34	Complete temperature study of the relaxation from HS to LS state in the mixed [Fe _x Zn _{1-x}](Phen) ₂ (NCS) ₂ systems (with x = 1, 0.73, 0.5). J. Phys. Chem. B, 2010, 114, 10018-10024.	1.0	18
35	Two New Supramolecular Architectures of Singly Phenoxo-Bridged Copper(II) and Doubly Phenoxo-Bridged Manganese(II) Complexes Derived from an Unusual ONOO Donor Hydrazone Ligand: Syntheses, Structural Variations, Cryomagnetic, DFT, and EPR Studies. European Journal of Inorganic Chemistry, 2009, 2009, 2915-2928.	1.0	48
36	Opposite effects of interactions and disorder on the switching properties of the spin transition compound [Fe(L) ₂][ClO ₄] ₂ ·C ₇ H ₈ . Polyhedron, 2009, 28, 1678-1683.	1.0	8

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37	Four new dinuclear Cu(II) hydrazone complexes using various organic spacers: syntheses, crystal structures, DNA binding and cleavage studies and selective cell inhibitory effect towards leukemic and normal lymphocytes. Dalton Transactions, 2009, , 6849.	1.6	59
38	Magnetostructural Correlations in Cu ^{II} -NC ^W V Linkage: The Case of [Cu ^{II} (diimine)] ₂ ·[W ^V (CN) ₈] ₃ ·OD Assemblies. Inorganic Chemistry, 2009, 48, 2865-2872.	1.9	42
39	Spin-transition in [Fe(L5) ₂][ClO ₄] ₂ [L5 = 2-[3-(2-pyridyl)pyrazol-1-ylmethyl](1-methylimidazole)]: a further example of coexistence of features typical for disorder and cooperativity. Dalton Transactions, 2009, , 7462.	1.6	15
40	A Novel $\mu_1,1$ -Azido-, μ_2 -Alkoxo-, and μ_2 -Phenoxo-Bridged Tetranuclear Copper(II) Complex with a Quinquedentate Schiff-Base Ligand: Magneto-Structural and DFT Studies. Australian Journal of Chemistry, 2009, 62, 366.	0.5	16
41	Structural, thermal and photomagnetic properties of spin crossover [Fe(bpp) ₂] ²⁺ salts bearing [Cr(L)(ox) ₂] ⁻ anions. Dalton Transactions, 2009, , 8087.	1.6	27
42	Kinetics of photo-induced phase transition and relaxation in the spin-crossover complexes [Fe _x Zn _{1-x}](phen) ₂ (NCS) ₂ , influence of metal dilution. IOP Conference Series: Materials Science and Engineering, 2009, 5, 012025.	0.3	14
43	Molecular and all-solid DFT studies of the magnetic and chemical bonding properties within KM[Cr(CN) ₆] (M=V, Ni) complexes. Chemical Physics, 2008, 352, 85-91.	0.9	5
44	A new mixed ligand coordination polymer of Mn(II): structural aspect and cryomagnetic study. Structural Chemistry, 2008, 19, 553-558.	1.0	6
45	Quenching the Hysteresis in Single Crystals of a 1D Chain Iron(II) Spin Crossover Complex. European Journal of Inorganic Chemistry, 2008, 2008, 2963-2966.	1.0	48
46	Synthesis and Characterisation of Two New Iron(II) Spin-Crossover Complexes with N ₄ O ₂ Coordination Spheres - Optimizing Preconditions for Cooperative Interactions. European Journal of Inorganic Chemistry, 2008, 2008, 4891-4898.	1.0	26
47	Influence of Metal Dilution on the Light-Induced Spin Transition in Two 1D Chain Compounds: [Fe _x Zn _{1-x} (btzp) ₃](BF ₄) ₂ and [Fe _x Zn _{1-x} (endi) ₃](BF ₄) ₂ {btzp = 1,2-Bis(tetrazol-1-yl)propane and endi = 1,2-Bis(tetrazol-1-yl)ethane}. European Journal of Inorganic Chemistry, 2008, 2008, 5382-5389.	1.0	31
48	Two new end-on azido bridged dinuclear copper(II) and cobalt(III) complexes derived from the (E)-N ² -((pyridin-2-yl)methylene) acetohydrazide Schiff base ligand: Characterisation, crystal structures and magnetic study. Polyhedron, 2008, 27, 2409-2415.	1.0	78
49	Two new pseudohalide-bridged Cu(II) complexes with a hydrazone ligand: Syntheses, crystal structures and magnetic studies. Inorganica Chimica Acta, 2008, 361, 2707-2714.	1.2	38
50	Effect of the metal dilution on the thermal and light-induced spin transition in [Fe _x Mn _{1-x} (bpp) ₂](NCS) ₂ : When T(LIESST) reaches T _{1/2} . Inorganica Chimica Acta, 2008, 361, 3529-3533.	1.2	41
51	A novel mixed ligand coordination polymer of copper(II): Synthesis, characterisation and magneto-structural correlation. Journal of Molecular Structure, 2008, 891, 19-24.	1.8	11
52	Effect of metal dilution on the light-induced spin transition in [Fe _x Zn _{1-x} (phen) ₂ (NCS) ₂] (phen =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	45
53	Temperature-Dependent Interactions and Disorder in the Spin-Transition Compound [Fe ^{II} (L) ₂][ClO ₄] ₂ · \dot{A} C ₇ H ₈ Through Structural, Calorimetric, Magnetic, Photomagnetic, and Diffuse Reflectance Investigations. Inorganic Chemistry, 2008, 47, 7577-7587.	1.9	41
54	Tetranuclear [Ni(HL ₃)] ₂ [W(CN) ₈] ₂ Square: A Case of Antiferromagnetic {Ni ^{II} -W ^V } Interactions. Inorganic Chemistry, 2008, 47, 4854-4860.	1.9	26

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55	Magnetic and photomagnetic studies in nanocrystalline Ni _{0.5} Zn _{0.5} Fe _{1.7} Co _{0.3} O ₄ . <i>Journal of Applied Physics</i> , 2008, 103, 07B724.	1.1	1
56	Photomagnetic Properties of an Iron(II) Low-Spin Complex with an Unusually Long-Lived Metastable LIESST State. <i>Inorganic Chemistry</i> , 2007, 46, 4114-4119.	1.9	50
57	Neutron Diffraction and Theoretical DFT Studies of Two Dimensional Molecular-Based Magnet K ₂ [Mn(H ₂ O) ₂] ₃ [Mo(CN) ₇] ₂ ·6H ₂ O. <i>Inorganic Chemistry</i> , 2007, 46, 1090-1099.	1.9	32
58	Magnetic and photomagnetic studies in Nd _{0.7} Sr _{0.3} CoO ₃ . <i>Solid State Communications</i> , 2007, 142, 132-136.	0.9	4
59	Synthesis, crystal structures and magnetic studies of dicyanamide bridged two new 1D copper(II) complexes. <i>Inorganica Chimica Acta</i> , 2007, 360, 4085-4092.	1.2	25
60	Two new pseudohalide bridged di- and poly-nuclear copper(II) complexes: Synthesis, crystal structures and magnetic studies. <i>Polyhedron</i> , 2007, 26, 1740-1744.	1.0	63
61	Evidence for Increased Exchange Interactions with 5d Compared to 4d Metal Ions. Experimental and Theoretical Insights into the Ferromagnetic Interactions of a Series of Trinuclear [M(CN) ₈] ₃ -Ni(II) Compounds (M = Mo or V). <i>Journal of the American Chemical Society</i> , 2006, 128, 10202-10212.	6.6	123
62	Five New Cobalt(II) and Copper(II)-1,2,4,5-benzenetetracarboxylate Supramolecular Architectures: Syntheses, Structures, and Magnetic Properties. <i>Crystal Growth and Design</i> , 2006, 6, 2355-2368.	1.4	150
63	Two new end-to-end single dicyanamide bridged Cu(II) complexes with Schiff base ligands: Structural, electrochemical and magnetic properties. <i>Inorganica Chimica Acta</i> , 2006, 359, 1184-1192.	1.2	45
64	A novel polymeric Cu(II) assemblage and a monomeric Ni(II) complex from a new easy-to-prepare flexible polytopic ligand: Synthesis, structural and magnetic studies. <i>Polyhedron</i> , 2006, 25, 1271-1278.	1.0	19
65	Evidence for Hydrogen-Bond-Mediated Exchange Coupling in an Aqua-Bridged Cu(II) Dimer: Synthesis, Magnetic Study and Correlation with Density Functional Calculations. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 329-333.	1.0	40
66	Microscopic model for high-spin versus low-spin ground state in [Ni ₂ M(CN) ₈](M=Mo, V, Nb) magnetic clusters. <i>Physical Review B</i> , 2006, 73, .	1.1	11
67	Does cooperativity influence the lifetime of the photo-induced HS state?. <i>Journal of Physics: Conference Series</i> , 2005, 21, 23-29.	0.3	13
68	Two new 1-D dicyanamide bridged polymeric complexes [Mn(1,5-dca) ₂ (salicyh) ₂] _n and [Ni(1,5-dca)(TTA)](ClO ₄) _n (dca=dicyanamide, ; salicyh=salicylic hydrazide; TTA=triethylenetetramine): Synthesis, structures and magnetic studies. <i>Inorganica Chimica Acta</i> , 2005, 358, 4534-4540.	1.2	10
69	Bi- and Trinuclear Copper(II) Complexes of a Sterically Constrained Phenol-Based Tetradentate Ligand: Syntheses, Structures, and Magnetic Studies. <i>Inorganic Chemistry</i> , 2004, 43, 8501-8509.	1.9	63
70	High Spin and Anisotropic Molecules Based on Polycyanometalate Chemistry. <i>Monatshefte für Chemie</i> , 2003, 134, 149-163.	0.9	44
71	Exchange Coupling in Metal Complexes of the Second Transition Series: A Theoretical Exploration. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 1756-1760.	1.0	24
72	Exchange Coupling in Metal Complexes of the Second Transition Series: A Theoretical Exploration. <i>ChemInform</i> , 2003, 34, no.	0.1	0

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73	Octadecanuclear Cluster or 1D Polymer with $[{ML}_2Nb(CN)_8]_n$ Motifs as a Function of $\{ML\}$ ($M = Tj, ET, Qq, 1, 1, 0, 78, 43, 14, rg, BT, /, Overlook$)	1.9	121
74	Exchange Coupling of Transition-Metal Ions through Hydrogen Bonding: A Theoretical Investigation. Journal of the American Chemical Society, 2002, 124, 5197-5205.	6.6	202
75	Pentanuclear Octacyanotungstate(V)-Based Molecule with a High Spin Ground State $S=13/2$. Inorganic Chemistry, 2002, 41, 1323-1327.	1.9	90
76	Room-temperature molecule-based magnets. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1999, 357, 2959-2976.	1.6	114
77	New Molecule-Based Magnets: From Hexacyano to Octacyanometalates. Molecular Crystals and Liquid Crystals, 1999, 334, 587-595.	0.3	70
78	Synthesis and Magnetization of New Room-Temperature Molecule-Based Magnets: Effect of Stoichiometry on Local Magnetic Structure by X-ray Magnetic Circular Dichroism. Journal of the American Chemical Society, 1998, 120, 11347-11352.	6.6	146
79	A critical review of the $T(LIESST)$ temperature in spin crossover materials \hat{a}^{\sim} What it is and what it is not. , 0, 2, 2.		53