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Spin crossover supramolecular coordination compounds: design, synthesis and properties

Mohanad D .Darawsheh

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SPIN CROSSOVER SUPRAMOLECULAR COORDINATION COMPOUNDS: DESIGN, SYNTHESIS AND PROPERTIES

Universitat de Barcelona

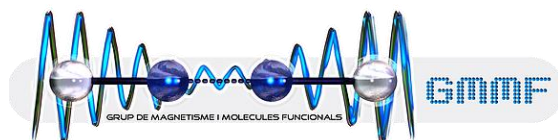
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For my Family

Contents

Abbreviations and Symbols

CHAPTER 1: Introduction	1
1.1 Introduction to Spin Crossover	1
1.2 Light-Induced Excited Spin State Trapping (LIESST) Effect	8
1.3 SCO in Dinuclear Fe(II) Complexes	9
1.4 LIESST Effect in Dinuclear Fe(II) Complexes	16
1.5 Guest-Host Induced SCO	19
1.6 Influence of Non-Coordinated Anions and Solvents on the SCO	21
1.7 Brief Introduction to Single Molecular Magnets (SMMs)	23
1.8 Metallosupramolecular Chemistry: Triple-Stranded Helicates	24
1.9 Bis-Pyrazolylpyridine Ligands	29
1.10 Aim and Scope of the Thesis	32
1.11 References	33
CHAPTER 2: Design of Host-Guest Triple-Stranded Helicates	43
2.1 Introduction	43
2.2 Anion-Encapsulated Triple-Stranded Helicates Using Bis-pyrazolylpyridine Ligands	46
2.3 [Co(II) ₂] and [Ni(II) ₂] Triple-Stranded Helicates Using H ₂ L4	48
2.3.1 Synthesis and Crystal Structure of Cl[Co ₂ (H ₂ L4) ₃]Cl(PF ₆) ₂ ·4CH ₃ OH·0.25C ₄ H ₁₀ O (iii) and Cl[Ni ₂ (H ₂ L4) ₃]Cl(PF ₆)·2.5CH ₃ OH (iv)	48
2.3.2 Magnetic Properties of the Cl-Co ₂ (iii) and Cl-Ni ₂ (iv) Helicates	51
2.3.1 Mass Spectrometry of the Cl-Co ₂ (iii) and Cl-Ni ₂ (iv) Helicates	54
2.4 Bigger Helical Cavity for Bigger Anions	57

2.4.1	Synthesis and Crystal Structure of $\text{ClO}_4\text{C}[\text{Fe}_2(\text{H}_2\text{L6})_3](\text{ClO}_4)_3 \cdot 16\text{CH}_3\text{CN}$ (v)	58
2.4.2	Magnetic Properties of $\text{ClO}_4\text{C}[\text{Fe}_2(\text{H}_2\text{L6})_3](\text{ClO}_4)_3 \cdot 16\text{CH}_3\text{CN}$ (v)	61
2.5	Conclusions	62
2.6	Experimental	63
2.7	References	66

CHAPTER 3: Spin Crossover in Iron (II) Dinuclear Triple-Stranded Helicates **71**

3.1	Introduction	71
3.2	Synthesis and Crystal Structure of $\text{ClC}[\text{Fe}_2(\text{H}_2\text{L4})_3]\text{Cl}(\text{PF}_6)_2 \cdot 5.7\text{CH}_3\text{OH}$ (1)	71
3.3	Synthesis and Crystal Structure of $\text{BrC}[\text{Fe}_2(\text{H}_2\text{L4})_3]\text{Br}(\text{PF}_6)_2 \cdot 4\text{CH}_3\text{OH}$ (2)	84
3.4	Crystal Structure of $\text{ClC}[\text{Fe}_2(\text{H}_2\text{L4})_3]\text{Cl}(\text{PF}_6)_2 \cdot 3\text{CH}_3\text{OH} \cdot 1\text{H}_2\text{O}$ (1a)	91
3.5	Crystal Structure of $\text{BrC}[\text{Fe}_2(\text{H}_2\text{L4})_3]\text{Br}(\text{PF}_6)_2 \cdot 1\text{CH}_3\text{OH} \cdot 1\text{H}_2\text{O}$ (2a)	96
3.6	Encapsulating Ability of the $[\text{Fe}_2(\text{H}_2\text{L})_3]^{4+}$ Host	99
3.7	Synthesis and Crystal Structure of $\text{ClC}[\text{Fe}_2(\text{H}_2\text{L4})_3](\text{I}_3)_3 \cdot 3(\text{Et}_2\text{O})$ (3)	101
3.8	Synthesis and Crystal Structure of $\text{BrC}[\text{Fe}_2(\text{H}_2\text{L4})_3](\text{I}_3)_3 \cdot 3(\text{Et}_2\text{O})$ (4)	105
3.9	Magnetic Properties of the XCFe_2 Helicates	106
3.10	Calorimetry (DSC) Studies of the XCFe_2 Helicates	112
3.11	LIESST Effect in the XCFe_2 Helicates	115
3.12	Solution Studies of the XCFe_2 Helicates	122
3.12.1	^1H NMR Spectroscopy	122
3.12.2	Mass Spectrometry	125
3.13	Conclusions	127
3.14	Experimental	128
3.15	References	130

CHAPTER 4: Spin Crossover in Fe(II) Dimerized Mononuclear Triple-Stranded Helicates **135**

4.1	Introduction	135
4.2	Synthesis and Crystal Structure of $\text{Cl}\left[\text{Fe}(\text{H}_2\text{L4})_3\right]_2(\text{OH})(\text{PF}_6)_2 \cdot \text{H}_2\text{O}$ (5)	136
4.3	Magnetic Properties of $\text{Cl}\left[\text{Fe}(\text{H}_2\text{L4})_3\right]_2(\text{OH})(\text{PF}_6)_2 \cdot \text{H}_2\text{O}$ (5)	141
4.4	Synthesis and Crystal Structure of $\text{Cl}\left[\text{Fe}(\text{H}_2\text{L4})_3\right]_2(\text{FeCl}_4)_3 \cdot 2\text{C}_3\text{H}_6\text{O} \cdot 4\text{C}_7\text{H}_8$ (6)	142
4.5	Magnetic Properties of $\text{Cl}\left[\text{Fe}(\text{H}_2\text{L4})_3\right]_2(\text{FeCl}_4)_3 \cdot 2\text{C}_3\text{H}_6\text{O} \cdot 4\text{C}_7\text{H}_8$ (6)	146
4.6	Synthesis and Crystal Structure of $\text{Br}\left[\text{Fe}(\text{H}_2\text{L4})_3\right]_2(\text{OH})(\text{PF}_6)_2 \cdot \text{H}_2\text{O}$ (7)	147
4.7	Magnetic Properties of $\text{Br}\left[\text{Fe}(\text{H}_2\text{L4})_3\right]_2(\text{OH})(\text{PF}_6)_2 \cdot \text{H}_2\text{O}$ (7)	148
4.8	Synthesis and Crystal Structure of $\text{I}\left[\text{Fe}(\text{H}_2\text{L4})_3\right]_2(\text{PF}_6)_{2.23}(\text{I})_{0.21}(\text{I}_3)_{0.56} \cdot 2\text{CH}_3\text{OH}$ (8)	149
4.9	Magnetic Properties of $\text{I}\left[\text{Fe}(\text{H}_2\text{L4})_3\right]_2(\text{PF}_6)_{2.23}(\text{I})_{0.21}(\text{I}_3)_{0.56} \cdot 2\text{CH}_3\text{OH}$ (8)	152
4.10	Synthesis and Crystal Structure of $\text{I}\left[\text{Fe}(\text{H}_2\text{L4})_3\right]_2(\text{I})_2(\text{I}_3)_{0.6}(\text{OH})_{0.4} \cdot 0.6\text{H}_2\text{O} \cdot 2\text{CH}_3\text{OH} \cdot 2\text{C}_3\text{H}_6\text{O}$ (9)	153
4.11	Magnetic Properties of $\text{I}\left[\text{Fe}(\text{H}_2\text{L4})_3\right]_2(\text{I})_2(\text{I}_3)_{0.6}(\text{OH})_{0.4} \cdot 0.6\text{H}_2\text{O} \cdot 2\text{CH}_3\text{OH} \cdot 2\text{C}_3\text{H}_6\text{O}$ (9)	154
4.12	Halide-Guest Effect on the SCO	155
4.13	Solution Studies of $\text{X}\left[\text{Fe}(\text{H}_2\text{L4})_3\right]_2$ Dimerized Helicates	156
4.14	Conclusions	164
4.15	Experimental	164
4.16	References	166

CHAPTER 5: Spin Crossover and Single Ion Magnet in Behavior in Host-Guest Fe(II) Helicates **171**

5.1	Introduction	171
5.2	Synthesis and Crystal Structure of $\text{Fe}(\text{C}_2\text{O}_4)_3\left[\text{Fe}_2(\text{H}_2\text{L6})_3\right](\text{BF}_4) \cdot 4\text{CH}_3\text{OH} \cdot 3.7\text{H}_2\text{O}$ (10)	172

5.3	Magnetic Properties of $\text{Fe}(\text{C}_2\text{O}_4)_3 \cdot [\text{Fe}_2(\text{H}_2\text{L6})_3](\text{BF}_4) \cdot 4\text{CH}_3\text{OH} \cdot 3.7\text{H}_2\text{O}$ (10)	177
5.4	Mass Spectrometry of $\text{Fe}(\text{C}_2\text{O}_4)_3 \cdot [\text{Fe}_2(\text{H}_2\text{L6})_3](\text{BF}_4) \cdot 4\text{CH}_3\text{OH} \cdot 3.7\text{H}_2\text{O}$ (10)	178
5.5	Synthesis and Crystal Structure of $\text{Cr}(\text{C}_2\text{O}_4)_3 \cdot [\text{Fe}_2(\text{H}_2\text{L6})_3](\text{BF}_4) \cdot 1.4\text{CH}_3\text{OH} \cdot 6\text{H}_2\text{O}$ (11)	180
5.6	Static Magnetic Properties of $\text{Cr}(\text{C}_2\text{O}_4)_3 \cdot [\text{Fe}_2(\text{H}_2\text{L6})_3](\text{BF}_4) \cdot 1.4\text{CH}_3\text{OH} \cdot 6\text{H}_2\text{O}$ (11)	187
5.7	Calorimetry Studies of $\text{Cr}(\text{C}_2\text{O}_4)_3 \cdot [\text{Fe}_2(\text{H}_2\text{L6})_3](\text{BF}_4) \cdot 1.4\text{CH}_3\text{OH} \cdot 6\text{H}_2\text{O}$ (11)	189
5.8	LIESST Effect in $\text{Cr}(\text{C}_2\text{O}_4)_3 \cdot [\text{Fe}_2(\text{H}_2\text{L6})_3](\text{BF}_4) \cdot 1.4\text{CH}_3\text{OH} \cdot 6\text{H}_2\text{O}$ (11)	190
5.9	Dynamic (<i>ac</i>) Magnetic Properties of $\text{Cr}(\text{C}_2\text{O}_4)_3 \cdot [\text{Fe}_2(\text{H}_2\text{L6})_3](\text{BF}_4) \cdot 1.4\text{CH}_3\text{OH} \cdot 6\text{H}_2\text{O}$ (11)	191
5.10	Mass Spectrometry of $\text{Cr}(\text{C}_2\text{O}_4)_3 \cdot [\text{Fe}_2(\text{H}_2\text{L6})_3](\text{BF}_4) \cdot 1.4\text{CH}_3\text{OH} \cdot 6\text{H}_2\text{O}$ (11)	196
5.11	Conclusion	197
5.12	Experimental	197
5.13	References	199
CHAPTER 6: Magneto-Structural Correlations		205
6.1	Introduction	205
6.2	Coordination Geometry of Fe(II) Vs. Occurrence of SCO	205
6.3	Hirshfeld Surface Analysis	210
6.4	Conclusions	217
6.5	References	219
CHAPTER 7: Conclusions and Future Perspectives		223

Appendix	233
Appendix I: Chapter 2. Design of Host-Guest Triple Stranded Helicates	233
Appendix II: Chapter 3. Spin Crossover in Iron (II) Dinuclear Triple-Stranded Helicates	238
Appendix III: Chapter 5. Spin Crossover and Single Ion Magnet Behavior in Host-Guest Fe(II) Helicates	239
Appendix IV: Physical Techniques	240
Appendix V: List of Publications	242
Appendix VI: List of Oral Communications in Conferences	243
Acknowledgments	244

Abbreviations and Symbols

χ_m	Molar Magnetic Susceptibility
γ_{HS}	Normalized High Spin Fraction
Σ	Octahedral Distortion Parameter (Chapter 1)
Θ	Octahedral Distortion Parameter (Chapter 1)
CSD	Cambridge Structural Database
C_p	Molar Heat Capacity at Constant Pressure
D	Zero field Splitting Parameter
DSC	Differential Scanning Calorimetry
g	Landé g-Factor
H	Enthalpy
HS	High Spin
k_b	Boltzmann Constant
LIESST	Light Induced Exited Spin State Trapping
LS	Low Spin
NMR	Nuclear Magnetic Resonance
ox	Oxalate
ppm	Parts Per Million
R	Gas Constant
RT	Room Temperature
S	Entropy
S(Oh)	Continuous Symmetry Measures Relative to Octahedral Geometry
S(itp)	Continuous Symmetry Measures Relative to Trigonal Prism Geometry
SCO	Spin Crossover
SQUID	Superconducting Quantum Interference Device
SMM	Singe Molecular Magnet
SIM	Single Ion Magnet
$T_{1/2}$	Transition Temperature
ZFS	Zero Field Splitting

