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## Spin Crossover Transition Metal Compounds

**spin crossover in transition metal complexes** - 1. the origins of spin crossover (sco) 2. characterization methods 3. examples of sco in transition metal complexes 4. the role of cooperativity in sco 5. pressure- and light-driven sco 6. charge-transfer induced spin transitions **the effect of ligand design on metal ion spin state ...** - abstract: the relationship between chemical structure and spin state in a transition metal complex has an important bearing on mechanistic bioinorganic chemistry, catalysis by base metals, and the design of spin crossover materials. **a spin crossover transition in a mn(ii) chain compound** - magnetochemistry 2016, 2, 1 3 of 15 partial spin crossover transition in the anionic mn(ii) chain coexisting with the high spin mn(ii) cationic chain. compound 2 is, therefore, one of the very scarce examples of spin crossover transitions in a mn(ii) complex and the first one with the coexistence of smooth spin crossover (sco) and high spin **reversible mechanism for spin crossover in transition ...** - physical review b 85, 054431 (2012) reversible mechanism for spin crossover in transition-metal cyanides mukul kabir and krystyn j. van vliet department of materials science and engineering, massachusetts institute of technology, cambridge, massachusetts 02139, usa **review spin-crossover in cobalt(ii) imine complexes** - 2 i. krivokapic et al. / coordination chemistry reviews xxx (2006) xxx-xxx 1. introduction spin-crossover complexes of transition metal ions having a d4-d7 electronic configuration are characterised by two low-lying electronic states of different spin-multiplicities: the low-spin (ls) state with a maximum number of paired electrons in **cooperativity in spin-crossover transition in metalorganic ...** - cooperativity in spin-crossover transition in ... physical review b 90, 174433 (2014) chain of 50 sites has been found to be large enough to avoid finite size effects. **spin crossover in a four-coordinate iron(ii) complex** - spin crossover is typically observed in first-row transition-metal complexes having d4-d7 electron counts. the largest group of spin-crossover complexes consists of mononuclear iron(ii) complexes with an  $fen\ 6$  coordination environment. 3 in these complexes, the  $s = 0(t\ 2g\ 6)tos = 2(t\ 2g\ 4e\ g\ 2)$  transition **monitoring ultrafast spin crossover intermediates in an ...** - charge, spin, and molecular structure evolution.1 under light irradiation, transition metal complexes may undergo spin crossover (sco)2-4 transitions from low-spin (ls) to high-spin (hs) states. sco materials are useful in light-controlled data storage.5 more specifically, it is common to generate

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