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The phenomenon of spin-crossover has a large impact on the physical properties of a solid material, including its colour, magnetic moment, and electrical resistance. Some materials also show a structural phase change during the transition. Several practical applications of spin-crossover materials have been demonstrated including display and memory devices, electrical and

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electroluminescent devices, and MRI contrast agents.

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In the past few years we have witnessed the spectacular development of nano-materials of spin crossover complexes of 3d 4 -3d 7 transition metal ions, including thin films, nanoparticles, nanopatterns and nanoscale assemblies. These developments were primarily motivated by fundamental questions concerning size reduction effects on the bistability properties.

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Emerging properties and applications of spin crossover ...

Spin Crossover (SCO) is a phenomenon that occurs in some metal complexes wherein the spin state of the complex changes due to an external stimulus. The stimulus include temperature, pressure, Spin crossover is sometimes referred to as spin transition or spin equilibrium behavior.

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