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Spincrossover Materials Properties And Applications

Spin-Crossover Materials: Properties and Applications is a valuable resource for academic researchers working in the field of spin-crossover materials and topics related to crystal engineering, solid state chemistry and physics, and molecular materials. Postgraduate students will also find this book useful as a comprehensive introduction to the field.

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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 electroluminescent devices, and MRI contrast agents.

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Spin-Crossover Materials: Properties and Applications presents a comprehensivesurvey of recent developments in spin-crossover research, highlighting the multidisciplinary nature of this rapidly expanding field. Following an introductory chapter which describes the spin-crossover phenomenon and historical development of the field, the book goes on to cover a wide range of topics including

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Beginning with an introductory chapter describing the spin-crossover phenomenon and a historical overview of the field since it was first observed in the 1930s, this book looks at recent advances in the chemistry of "traditional" spin-crossover complexes and materials containing iron(II), iron(III) or cobalt(II). Other topics include various types of spin-state transition, multi-functional ...

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The preparation of spin-crossover conductors in which conductivity and light-induced excited spin state trapping (LIESST) exhibit synergistic effects is desired. Multifunctional materials...

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Summary: "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 electroluminescent devices, and MRI.

Spin-crossover materials : properties and applications ...

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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.

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.

Spin crossover - Wikipedia

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