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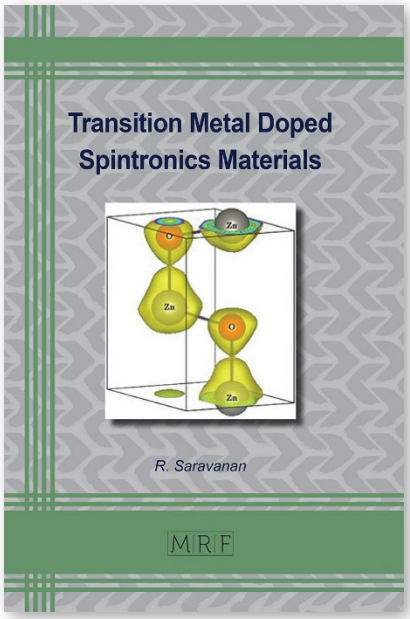
Transition Metal Doped Spintronics Materials



R. Saravanan

Monograph / PDF eBook DRM Free

The book presents new research on the synthesis and characterization of various oxide based dilute magnetic spintronics materials (ODMS).

Keyword: Spintronics Materials, Zn1-xTixO, Zn1-xFexO, Zn1-xVxO, Zn1-xNix/2Vx/2O, Synthesis, X-ray Diffraction. Rietveld Analysis, Surface Morphological Properties, Optical Properties, Magnetic Properties, Charge Density Analysis, Electron Density Distribution

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Summary:

The book presents new research on the synthesis and characterization of various oxide based dilute magnetic spintronics materials (ODMS). The characterization techniques included powder X-ray diffraction, scanning electron microscopy, vibrating sample magnetometry and UV visible spectrometry. The morphological, magnetic and optical properties are reported. Electron density distribution studies are presented in the form of three, two and one dimensional electron density maps.

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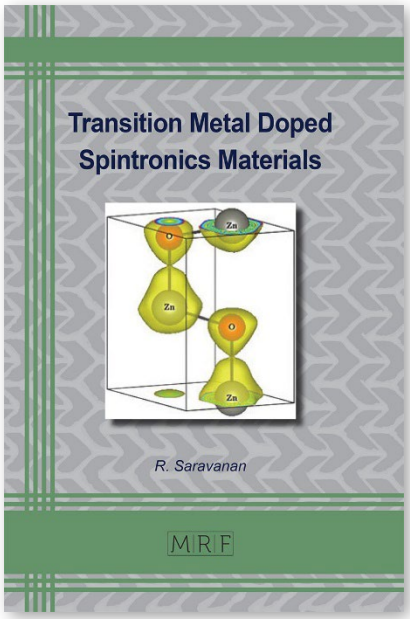

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