

Random site occupancy induced disordered Néel-type collinear spin alignment in heterovalent Zn²⁺-Ti⁴⁺ ions substituted CoFe₂O₄

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The screenshot shows a PDF viewer displaying the title page of a paper. The title is "Random site occupancy induced disordered Néel-type collinear spin alignment in heterovalent Zn²⁺-Ti⁴⁺ ions substituted CoFe₂O₄". The authors listed are S.M. Patange^a, S.S. Desai^a, S. S. Meena^b, S. M. Yusuf^c, and Sagar E. Shirsat^{a,*}. The affiliations are: ^aMaterials Research Laboratory, Shrikrishna Mahavidyalaya, Gunjoti 413613, MS, India; ^bSolid State Physics Division, Bhabha Atomic Research Centre, Mumbai 400085, India; ^cSpin Device Technology Center, Faculty of Engineering, Shinshu University, Nagano 380-8553, Japan. The abstract states: "CoFe₂O₄, cobalt ferrite (CFO) nano-particles with composition CoZn_xTi_{4-x}Fe_{2-2x}O₄ (0 ≤ x ≤ 0.4) were synthesized by sol-gel autocombustion method. The effect of Zn²⁺-Ti⁴⁺ substitution on the structural, magnetic and frequency depended permeability properties of the CFO nano-particles were investigated by X-ray diffraction, ⁵⁷Fe Mössbauer spectroscopy, vibrating sample magnetometry, transmission electron microscopy and permeability analysis. The Rietveld refined". The page number is 24 / 68 and the zoom is 90%.

The screenshot shows the Scopus Preview page for the paper. The title is "Random site occupancy induced disordered Néel-type collinear spin alignment in heterovalent Zn²⁺-Ti⁴⁺ ions substituted CoFe₂O₄". The authors listed are S.M. Patange, S.S. Desai, S. S. Meena, S. M. Yusuf, and Sagar E. Shirsat. The publisher is Royal Society of Chemistry. The ISSN is 2046-2069. The subject area is Chemical Engineering: General Chemical Engineering. The source type is Journal. The CiteScore 2020 is 5.9, the SJR 2021 is 0.667, and the SNIP 2021 is 0.833. The page also shows the Scopus coverage years from 2011 to Present and the Open Access status.



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