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Structural, magnetic and antibacterial assessment of Ce co-doped Sr–Mn–ZnO nanoparticles

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A facile sol gel method was adopted for the synthesis of Ce co-doped Sr–Mn–ZnO nanoparticles. The effect of incorporation Ce ions on the structural and magnetic properties of the CSMZO has been characterized by different characterization technique. The XRD and HRTEM/HRSEM show high crystallinity degree of the CSMZO thin films. The analysis using FTIR, UV-vis and VSM reveal that the nanocomposites showed well-behaved absorption bands and well magnetic behavior at room temperature. Correspondingly, the synthesized nanocomposites exhibited good antibacterial and antifungal activity.

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