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## Antibacterial activities of microwave-assisted CdO-ZnO nanocomposites

K Karthik, S Dhanuskodi, C Gobinath and S Sivaramakrishnan  
Bharathidasan University, India

CdO-ZnO nanocomposite was prepared by microwave-assisted method with cadmium chloride, zinc chloride and ammonium hydroxide as starting materials and characterized by XRD, SEM and FT-IR. It exhibits hexagonal cubic structure with an average crystallite size of 22 nm. The surface morphological image displays an irregular shaped stone like structure. The UV-Vis spectra reveal the bandgap as 2.92 eV. The fluorescence spectrum shows a near band edge emission at 422 nm. The significant antimicrobial activities were studied against gram negative (*Escherichia coli*, *Pseudomonas aeruginosa*, *Proteus vulgaris* and *Klebsiella-pneumonia*) and gram positive (*Staphylococcus aureus*, *Enterococcus faecalis*, *Enterococci spp.* and *Bacillus spp.*) bacteria. The zone of inhibition was found to be more for gram positive bacteria than gram positive bacteria.

[astrokarthik8@gmail.com](mailto:astrokarthik8@gmail.com)