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Effect of solvent medium on the material properties of ZnO nanoparticles synthesized by sol-gel method.

Wednesday, 6 May 2015 13:30 (1h 30m)

The abstract gives an overview of the content of my paper entitled, “Effect of solvent medium on material properties of ZnO nanoparticles synthesized by sol-gel method.”

The issues on applications, optical and luminescence properties and the structure of ZnO were mentioned in introduction. In addition, the abstract reports that, in the research, high-quality zinc oxide (ZnO) nanoparticles were synthesized by sol-gel method using zinc acetate and sodium hydroxide precursors. The effect of varying volume ratios of water to ethanol solvent on zinc oxide (ZnO) nanoparticles prepared at constant temperature of 35 oC was studied. The material properties of the nanoparticles were examined using SEM, EDS, XRD, UV-Vis Spectroscopy and PL systems. The abstract provides summary of the results and discussions. Essentially, reports on scanning electron microscopy, optical absorption, transmittance and the band gap were covered briefly. XRD and PL spectra were included in the abstract also. Finally, two items of references were captured.

Are you currently a postgraduate student? (Yes/No)

Yes

At what level of studies are you currently? (Hons/MSc/PhD)

MSc

Please provide the name and email address of your supervisor.

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