



Synthesis of Doped Lithium Aluminate Nanocrystalline Powders

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Lithium Aluminate Nanoparticles | The field of material sciences has advanced tremendously in the areas of synthesis of nanoparticles with altered properties. The main objective of this dissertation was to synthesis doped Lithium aluminate (LiAlO_2) nanocrystalline powders. In the present work these nanocrystalline powders were obtained by sol-gel method, and the powders were characterized for structural analysis with X-ray diffraction, SEM and EDAX. The particle size was found to be around 20nm from X-ray diffraction. SEM and EDAX reaffirmed that the size were in the same range. The details about the functional groups present in the synthesized samples were analyzed using FTIR. Optical absorption properties were recorded using UV spectral analysis it was inferred that the prepared doped nanocrystalline powders were an optical material with high band gap values and this confirmed that doped Lithium Aluminate were optical material. The frequency dependence of the dielectric constant and dielectric loss at selected temperature for the materials was also recorded. | Format: Paperback | Language/Sprache: english | 84 pp.

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