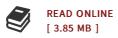




# Fabrication, Characterization and Photocatalytic Application of GO-TiO2

By Satyannarayana, Bassa

Condition: New. Publisher/Verlag: Scholar's Press | Titanium Dioxide, GO, Photo Catalyst and UV | Titanium dioxide-Graphene oxide (TiO2-GO) composites with different concentrations of GO to TiO2 were synthesized using a colloidal blending process and evaluated for their heterogeneous photo catalytic degradation of methylene blue for removal of pollutants .Both SEM and FTIR demonstrated the presence of a carbon component in the as-prepared TiO2-GO composites. Unlike unmodified TiO2, the TiO2-GO composites showed a light-absorbance shift into the longer wavelength regions, indicating "Band-gap narrowing". A simple method of depositing titanium dioxide (TiO2) Nano particles onto Graphene oxide (GO) as a catalytic support was devised for photo catalytic degradation methylene blue(MB) .The resultant GO-supported TiO2 (GO-TiO2) samples was characterized by scanning electron microscope(SEM),X-Ray Diffraction (XRD) , Fourier transform infrared spectroscopy(FTIR) and ultra violet visible near infrared spectrophotometer (UV-VIS-NIRSPECTROPHOTOMETER) measurements revealing that the anatase TiO2Nano particles had effectively anchored to the GO surface. In photo degradation of MB, GO-TiO2 composites exhibited remarkably enhanced photo catalytic efficiency. | Format: Paperback | Language/Sprache: english | 80 pp.



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