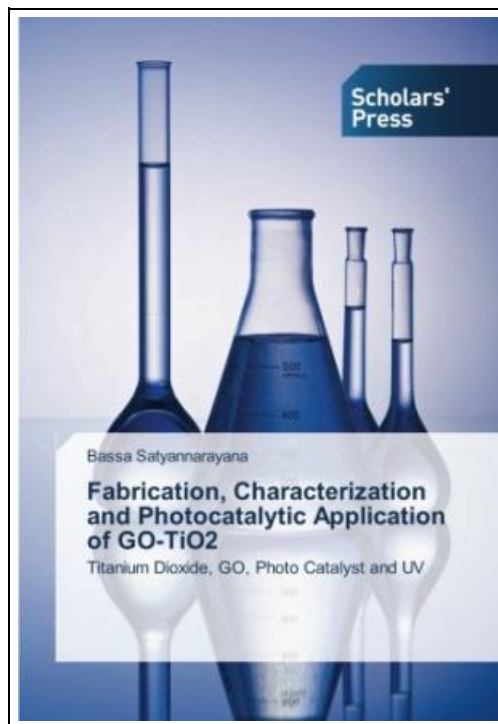


Fabrication, Characterization and Photocatalytic Application of GO-TiO₂



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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 photocatalytic 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 photocatalytic degradation of methylene blue (MB). The resultant GO-supported TiO₂ (GO-TiO₂) samples were 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 TiO₂ Nano particles had effectively anchored to the GO surface. In photocatalytic degradation of MB, GO-TiO₂ composites exhibited remarkably enhanced photocatalytic efficiency. | Format: Paperback | Language/Sprache: english | 80 pp.

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