


[DOWNLOAD](#)


## Fabrication, Characterization and Photocatalytic Application of GO-TiO<sub>2</sub>

By Satyanarayana, Bassa

Condition: New. Publisher/Verlag: Scholar&apos;s Press | Titanium Dioxide, GO, Photo Catalyst and UV | Titanium dioxide-Graphene oxide (TiO<sub>2</sub>-GO) composites with different concentrations of GO to TiO<sub>2</sub> 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 TiO<sub>2</sub>-GO composites. Unlike unmodified TiO<sub>2</sub>, the TiO<sub>2</sub>-GO composites showed a light-absorbance shift into the longer wavelength regions, indicating "Band-gap narrowing". A simple method of depositing titanium dioxide (TiO<sub>2</sub>) Nano particles onto Graphene oxide (GO) as a catalytic support was devised for photo catalytic degradation methylene blue (MB). The resultant GO-supported TiO<sub>2</sub> (GO-TiO<sub>2</sub>) 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 TiO<sub>2</sub> Nano particles had effectively anchored to the GO surface. In photo degradation of MB, GO-TiO<sub>2</sub> composites exhibited remarkably enhanced photo catalytic efficiency. | Format: Paperback | Language/Sprache: english | 80 pp.



[READ ONLINE](#)  
[ 3.85 MB ]

### Reviews

*A top quality publication and also the font employed was interesting to learn. It is really simplistic but excitement within the fifty percent from the book. Its been designed in an remarkably basic way in fact it is only following i finished reading this pdf where in fact changed me, modify the way i believe.*

-- Rachel Stiedemann

*It is great and fantastic. Better then never, though i am quite late in start reading this one. Its been written in an extremely simple way and is particularly only right after i finished reading this ebook where actually changed me, affect the way i really believe.*

-- Orin Blick

## Related Books



### **My Best Bedtime Bible: With a Bedtime Prayer to Share**

Lion Hudson Plc. Paperback. Book Condition: new. BRAND NEW, My Best Bedtime Bible: With a Bedtime Prayer to Share, Sophie Piper, Claudine Gevry, This heartwarming collection of ten Bible stories is ideal for reassuring and comforting toddlers at the end of the...



### **Hands Free Mama: A Guide to Putting Down the Phone, Burning the To-Do List, and Letting Go of Perfection to Grasp What Really Matters!**

ZONDERVAN, United States, 2014. Paperback. Book Condition: New. 211 x 137 mm. Language: English . Brand New Book. Rachel Macy Stafford s post The Day I Stopped Saying Hurry Up was a true phenomenon on The Huffington Post, igniting countless conversations online...



### **Get Up and Go**

Puffin. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 10.0in. x 7.7in. x 0.3in. We all come in different shapes and sizes, and it doesnt matter if you are tall, short, skinny, or round. Your body is your own, and you need to...



### **Nie Weiping Go the temple entry Exercises registered(Chinese Edition)**

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date: Unknown in Publisher: Book Sea Press Information Original Price: \$ 25.00 Author: Publisher: Book Sea Press ISBN: 9787805508979...



### **Read Write Inc. Phonics: Green Set 1 Non-Fiction 3 Let s Go!**

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 215 x 88 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books is carefully levelled to match childrens growing...



### **Trouble Free Travel with Children Over 700 Helpful Hints for Parents of the Go by Vicki Lansky 2003 Paperback**

Book Condition: Brand New. Book Condition: Brand New.