





Special Issue Reprint

### **Novel ZnO-Based Nanostructures**

www.mdpi.com/books/reprint/7092

Edited by Yamin Leprince-Wang Guangyin Jing Basma El Zein

ISBN 978-3-0365-7134-8 (Hardback) ISBN 978-3-0365-7135-5 (PDF)



Zinc oxide (ZnO) nanostructure, one of most famous nanomaterials in past decades, provides extensive and adaptive applications to wide communities include material, physics, daily-use chemical industry and medical societies. Controlled synthesis, advancing characterization tools, and endless healthcare from materials, drive rapid evolution of understanding and engineering on ZnO nanomaterials. Here, in this reprint, novel research articles and mini reviews are included with the focus on the novel synthesis, applications on the air and liquid purifications by using the photocatalytic merits of ZnO. Additionally, antibacterial performance from the ZnO nanostructures were demonstrated by these original contributions, which directs the new possibility from ZnO towards medical usage.





MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



#### **Open Access**

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



#### **Author Focus**

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



## **High Quality & Rapid Publication**

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



## **High Visibility**

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



# **Print on Demand and Multiple Formats**

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.

MDPI AG St. Alban-Anlage 66 4052 Basel Switzerland Tel: +41 61 683 77 34 www.mdpi.com/books books@mdpi.com

