

Special Issue Reprint

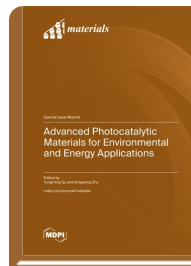
Advanced Photocatalytic Materials for Environmental and Energy Applications

www.mdpi.com/books/reprint/8406

Edited by
Tongming Su
Xingwang Zhu

ISBN 978-3-0365-9649-5 (Hardback)

ISBN 978-3-0365-9648-8 (PDF)



With the development of modern society, environmental pollution and energy shortages have become the focus of attention worldwide. Most of the global energy supplies are generated from fossil fuel, which gives rise to environmental pollution and climate change. Photocatalysis technology, which can directly convert solar energy into high value-added fuel and chemical materials or degrade a wide range of organic pollutants into easily degradable intermediates or less toxic small molecular substances, is regarded as one of the most important ways to solve the global energy shortage and environmental pollution problem. This Special Issue focuses on advanced photocatalytic materials, including but not limited to photocatalytic materials for the treatment of indoor air, photocatalytic bacterial inactivation, photocatalytic hydrogen evolution, photocatalytic oxygen evolution, photocatalytic CO₂ reduction, photocatalytic hazardous pollutant removal, the photothermal decomposition of pollutants, photoelectrochemical water splitting, etc. This Special Issue provides a platform for scientists to present their original research on “Advanced Photocatalytic Materials for Environmental and Energy Applications”.

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.