

Special Issue

Emerging Trends in TiO₂ Photocatalysis and Applications

Message from the Guest Editors

Titanium dioxide (TiO₂) is one of the well established and renowned photocatalyst that explored for various possible photocatalytic applications. However, along with the suitable band edge positions, an efficient photocatalyst should also have (i) the narrow band gap energy as to absorb visible light energy, (ii) ... As to enable these requirements in a photocatalyst, several modifications strategies have been developed, which broadly include doping, composite, plasmon sensitization, co-catalyst loading, etc. As the TiO₂ is being a pioneering material for any developments in the field of photocatalysis, this special issue is going to be focused on the “Emerging trends in TiO₂ photocatalysis and applications”, featuring their state-of-the-art in the field. The research findings focusing the fundamental exploration on the syntheses, characterizations and applications in the technological and industrial scale development of TiO₂ in the field of photocatalysis are prime importance of this special issue. Above all, we glad to highlight that **Prof. Akira Fujishima will be contributing a review paper in this Special Issue.**

Guest Editors

Prof. Dr. Trong-On Do

Department of Chemical Engineering, Laval University, Quebec, QC G1V 0A6, Canada

Dr. Sakar Mohan

Centre for Nano and Material Sciences, Jain University, Bangalore 562112, India

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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