

Special Issue

Titanium Oxide Films for Energy Applications

Message from the Guest Editors

TiO₂ is a material with high chemical stability and strong catalytic activity, which has been applied in promising energy technologies, including dye-sensitized solar cells, supercapacitors, rechargeable batteries, photocatalysts, and gas sensors. It is of high importance to tailor the intrinsic properties and chemical stoichiometry of TiO₂ for optimum performance in any energy related application. Substantial progress has been seen and continues to see the light toward the development and optimization of novel and efficient synthesis methods of TiO₂, as well as the development of state-of-the-art energy related devices. In this Special Issue of *Metals*, we invite investigators to contribute original research and review articles that will stimulate the continuing efforts to understand the electronic and optical properties of TiO₂ films and their crucial role in achieving highly efficient energy related devices. We are particularly interested in articles that aim to clarify the influence of the metal oxide component on the device performance.

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About the Journal

Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editor-in-Chief

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