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Titanium Oxide Films for Energy Applications

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Deadline for manuscript submissions:
closed (30 April 2019)

Message from the Guest Editors

TiO_2 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 TiO_2 for optimum performance in any energy related application. Substantial progress has seen and continues to see the light toward the development and optimization of novel and efficient synthesis methods of TiO_2, 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 TiO_2 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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Message from the Editorial Board

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.

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Journal Rank: JCR - Q2 (*Metallurgy and Metallurgical Engineering*) / CiteScore - Q1 (Metals and Alloys)

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