Special Issue

TiO2-Based Nanostructures, Composites and Hybrid Photocatalysts

Message from the Guest Editors

Titanium dioxide (TiO2) is nowdays one of the most widely used photocatalytic materials due to its ability to oxidatively decompose organic pollutants, low cost, durability and corrosion resistance. It has wide applications in the energy and environmental fields. The scope of interests includes but is not limited to the following topics:

- Fundamental properties of TiO2 nanostructures;
- Synthesis of bulk TiO2 crystals, TiO2 nanoparticles and thin films;
- Modification of TiO2 nanostructures through doping, including non-metal doping and metal doping;
- Self-doped TiO2 nanostructures: oxygen vacancies, black titania, etc.;
- Composites and hybrid photocatalysts based on TiO2 and carbon nanomaterials or on TiO2 and inorganic materials;
- Applications including water remediation, degradation of dyes and/or farmaceuticals, CO2 reduction, hydrogen evolution, fuels production, plasmonic photocatalysis, gas sensors, biomedical applications, etc. It is our pleasure to invite you to submit a manuscript for this Special Issue.

Guest Editors

Dr. Stefano Lettieri

National Research Council of Italy, Institute of Applied Sciences and Intelligent Systems "Eduardo Caianiello" (ISASI-CNR), Pozzuoli, Italy

Prof. Dr. Michele Pavone

Department of Chemical Sciences, University of Napoli "Federico II", 80131 Naples, Italy

Deadline for manuscript submissions

closed (30 June 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/22307

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

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)