



an Open Access Journal by MDPI

Modeling of the Structure, Properties, Processes and Surface of Materials

Guest Editor:

Prof. Dr. Sebastian Stach

Institute of Biomedical Engineering, Faculty of Science and Technology, University of Silesia in Katowice, Katowice, Poland

sebastian.stach@us.edu.pl

Deadline for manuscript submissions: **31 July 2021**

Message from the Guest Editor

Dear Colleagues,

The aim of this Special Issue is to publish original scientific papers describing research work devoted to designing the structure, properties, surface and material processes of all kinds of modern engineering materials, with a particular emphasis on computer modelling techniques, such as, for example, finite element method, finite volume method, Monte Carlo method, molecular dynamics, DFT, etc., but also other computer methods aimed at improving the functionality and application of materials.

However, it must be clear that it concerns application in science or engineering and practical use of the results of the designed and tested materials. The focus can be on developing new methods, mathematical models and numerical methods, or using the existing ones, which will help to formulate new conclusions after experimental verification, or after comparison with other methods.









an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

James McGill Professor, Professor of Biomedical Engineering, Professor of Bioengineering, Professor of Experimental Surgery, Department of Biomedical Engineering, Faculty of Medicine/Faculty of Dentistry, Duff Medical Science Building, 3775 University Street, Montreal, QC, H3A 2B4, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers fourteen comprehensive topics: Biomaterials; Energy Materials; Composites; Structure Analysis; Porous Materials; Manufacturing Processes; Advanced Nanomaterials; Smart Materials; Thin Films; Catalytic Materials; Carbon Materials; Materials Chemistry; Materials Physics; Optics and Photonics; Corrosion; Building Materials. The distinguished and dedicated editorial board and our strict peer-review process ensure the highest degree of scientific rigor and review of all published articles.

Materials provides an unique opportunity to contribute high quality articles and to take advantage of its large readership.

Author Benefits

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

High Visibility: indexed by the Science Citation Index Expanded (Web of Science), Ei Compendex and other databases. Citations available in PubMed, full-text archived in PubMed Central.

CiteScore (2019 Scopus data): **3.5**, which equals rank 173/460 in 'General Materials Science'.

Contact Us

Materials MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 Fax: +41 61 302 89 18 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com ♥@Materials Mdpi