



an Open Access Journal by MDPI

Molecular Biomimetics and Materials Design

Guest Editors:

Prof. Dr. Lyle Isaacs

Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742, USA

Prof. Dr. Kwang J. Kim

Department of Mechanical Engineering, University of Nevada, Las Vegas (UNLV), 4505 Maryland Parkway, Las Vegas, NV 89154, USA

Deadline for manuscript submissions: closed (30 November 2010)

Message from the Guest Editors

Dear Colleagues,

Nature is unquestionably the pre-eminent chemist. One must only consider the myriad chemical reactions and non-covalent interactions that are ongoing simultaneous with exquisite control in both space and time to be awe inspired. A large number of chemists and biochemists are involved in the dissection of these complex biological systems by understanding the precise chemical behavior of each Natural component. Another segment of the chemical and biochemical community aims to apply the understanding of natural systems to create man-made molecules, materials, machines, and systems with complex structure and function. This special issue is dedicated to the chemistry of such biomimetic systems at the molecular, macromolecular, and materials levels. As such this special issue encompasses a broad range of topics of contemporary interest in chemistry.

Prof. Dr. Lyle Isaacs Prof. Dr. Kwang J. Kim *Guest Editors*









an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

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

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. 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.

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 & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials_Mdpi