Special Issue

Ionic Interfaces in Smart Polymer Materials

Message from the Guest Editors

In recent years, the polymer materials community has put a great deal of effort into designing innovative polymer materials that are engineered to be multifunctional or task-specific, presenting enhancement in properties such as ionic conductivity, chemical and thermal stability, mechanical performance, fire retardancy, barrier properties, self-healing ability, and shape memory behavior. This can be effectively achieved by altering the interphase behavior of these polymer systems, both via chemical modification or incorporating additives/fillers such as block copolymers, ionomers, organic–inorganic hybrid materials, or inorganic-rich nano-objects. Among these, the application of (poly)ionic liquids, eutectic solvents, and eutectic molecular liquids have presented many new opportunities within the last decade, since small amounts of these compounds can impart dramatic interphase modifications to polymer materials due the production of vast physical interphase bonding, including the formation of ionic bonding.

Guest Editors

Dr. Sébastien Livi

Dr. Ricardo Keitel Donato

Dr. Hynek Beneš

Deadline for manuscript submissions

closed (31 January 2022)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/44438

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

mdpi.com/journal/nanomaterials

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/journal/nanomaterials

MDPI

About the Journal

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)