Special Issue

Ionic Interfaces in Smart Polymer Nanomaterials, Volume II

Message from the Guest Editors

Materials sciences have a major role in meeting the current global challenges such as environmental stewardship; the production, storage, and conversion of energy; and cost-effective transportation, leading the research towards designing advanced polymer materials that consider both their shelf- and end-of-life. Through the concept “function through structural design”, the development of easy and new production methods is crucial for preparing innovative polymer materials solutions and thus ensures a sustainable future. 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, et al. 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

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Deadline for manuscript submissions

closed (30 September 2023)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/151565

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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.

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