Special Issue

Physical Chemistry of Colloids

Message from the Guest Editor

I am delighted to invite you to submit works that advance the field of fabrication and characterization of colloidal materials for this Special Issue. The search for new colloidal materials starts from the synthesis of novel microscopic and nanoscopic building blocks. For instance, particles of complex geometries and surface functionalities may self-assemble into fascinating two- and three-dimensional architectures, whereas their material composition might be used to introduce responsiveness to external fields (e.g., magnetic fields). Then, it is paramount to characterize the structural properties of the colloidal assemblies using numerical models or experimental techniques, such as microscopy or light scattering. The next step is to investigate, and eventually control, the dynamical and mechanical response to external fields, local forces, and shear flows. Finally, the last two decades have witnessed a growing demand for active soft materials which can sustain their own motion without manpower due to the self-propulsion of the colloidal units. I look forward to receiving your manuscript. Full papers, communications, and mini reviews are all welcome.

Guest Editor

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Deadline for manuscript submissions

closed (20 December 2022)

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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.

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