Special Issue

Novel Physics Condensed Matter

Message from the Guest Editors

Condensed matter physics is an area with a high impact on the material sciences and material technologies. A field with strong future perspectives is the application of the fundamental principles of condensed matter physics to the development of “smart” materials. The progress in solvation and complex formation research is the basis for a better understanding of the complex problems of condensed matter physics at the nanoscale level. On the other hand, studying the new developments in nanotechnology opens new horizons in the physical chemistry of solvation and complex formation. Despite the evident success of modern materials science, the structure of molecular fluids and polymers confined in nanopores, and the effect of external stimuli and state parameters on the structure, the dynamics and conformational properties of molecules have not yet been studied well. This Special Issue will contribute to solving problems of solvation and complex formation that occur as a result of the action of external stimuli, such as nanopores and any other confinement, electromagnetic fields, high and low parameters of state, and co-solvent concentration.

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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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