

Special Issue

Solvated Metal Ions: From Solution to Solid

Message from the Guest Editor

Solvated metal ions play a crucial role in different fields. They are present in natural and industrial waters, brines, biological liquids, and in different solids including functional materials like sorbents, catalysts, etc. The study of metal-solvent bonding and its dependence on the properties of interacting particles (metal ion size and charge, solvent donor number, softness of the components) is essential for the development of new methods of metal extraction from the ores, its recovery from the industrial wastes, the production of new sorbents and catalysts with optimized properties and also for the solution of some medical problems closely related to metal ion transformation both in liquids (blood, lymph) and in solids (bones).

Guest Editor

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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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