Special Issue

Advanced Nanomaterials and Biomaterials from Self-Assembling Peptides

Message from the Guest Editor

Self-assembling peptides are potential scaffolds to construct hybrid nanomaterials for optical and electronic devices that involve light harvesting system. Nanostructures of self-assembling peptides have also received a great deal of attention as scaffolds for mineralization of metallic/inorganic nanomaterials including silica, hydroxyapatite, semiconductor and metal oxides. In another instance, the assembled structures of designed peptides, such as networked-nanofibers, are expected to be artificial extracellular matrices for cell culture, tissue engineering and regenerative medicine. Networked-nanofibers form hydrogel materials that can give similar environment to natural hydrogels composed of extracellular matrices. In addition, biomaterials fabricated from SAPs are also attractive for biomedical applications, such as drug delivery systems and antibacterial materials. This Special Issue will focus on the self-asssembling peptides as nanomaterials and biomaterials. New entries of self-assembling peptides with various nanostructures and properties are welcomed. Prof. Dr. Hiroshi Tsutsumi

Guest Editor

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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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