Special Issue

Advances in Chitosan Biomaterials

Message from the Guest Editor

Chitosan, one of the natural biomaterials derived from crab or shrimp shells, hosts unique free amino groups, which endow it with pH responsive ability, metal ion chelation, and active chemical modification sites. Chitosan also has a lot of advantages which are beneficial for biomaterials, such as excellent biocompatibility, biodegradation via lysozymes, hemostatic and antibacterial ability, and modulation reactive oxygen species. To overcome the barriers to basic research and translation from bench to bedside of chitosan biomaterials and promote chitosan application in biomaterials fields, this Special Issue of *Materials* on "Advances in Chitosan Biomaterials" invites review and research articles related to chitosan biomaterials. The topics of interest include chitosan and chitosan derivation, UV cross-linkable chitosan, chitosan nanofibers, chitosan hydrogel, injectable chitosan hydrogel, tough double network hydrogel, and their versatile biomedical applications, such as tissue engineering and regeneration, drug delivery, wound dressing, and hemostatic dressing.

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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