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Recent Advances in Ionogels

Guest Editors:

Dr. Giao T.M. Nguyen

Laboratoire de Physicochimie
des Polymères et des Interfaces,
Institut des Matériaux, CY Cergy
Paris Université, Cergy-Pontoise,
France

Prof. Dr. Jean Le Bideau

Institut des Matériaux de Nantes
Jean Rouxel, IMN, Nantes
Université, CNRS, F-44000
Nantes, France

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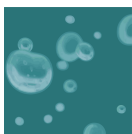
Message from the Guest Editors

Ionogels are biphasic materials consisting of an ionic liquid confined in a solid network. This solid network can be organic or inorganic. The greatest component of ionogels is an ionic liquid, and ionogels present a bicontinuous solid and liquid interface. The latter confers to the ionogel a solid state with potentially good mechanical properties. By a reasoned choice of the nature and of the respective proportions of their components, the properties of ionogels can be optimized. Moreover, the confinement of ionic liquids can lead to an advantageous modification of their properties, particularly their phase change temperature. These different properties make ionogels attractive for a wide range of applications where ionic transport, solid-state processing, extreme operating conditions (high temperature, low pressure, large electrochemical window, etc.) are desirable: energy storage devices (supercapacitors, batteries), sensors, actuators, ionics, drug delivery, etc.



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Special Issue



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Editor-in-Chief

Prof. Dr. Esmail Jabbari

Biomimetic Materials and Tissue Engineering Laboratory,
Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, USA

Message from the Editor-in-Chief

Gels (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

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Contact Us

Gels Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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