

Special Issue

Advanced Hydrogels for the Repair of Cartilage Defects

Message from the Guest Editors

Osteoarthritis (OA) is a degenerative disease that causes pain and disability of millions of people worldwide. Cartilage defects are one of the leading causes and a common symptom of OA. This Special Issue on “Advanced Hydrogels for the Repair of Cartilage Defects” is dedicated to recent developments from theoretical, fundamental, experimental and applicable aspects to the synthesis and characterization of hydrogels that are potential for cartilage defects repair, cartilage tissue engineering, and cartilage regeneration. Within this context, a broad range of subjects, including hydrogel design, hydrogel with stem cells or chondrocytes, in vivo animal studies, and clinical trials will be discussed. We look forward to the submission of new concepts and results of hydrogels used for the repair of cartilage. Reviews that summarize the recent developments of advanced hydrogels for cartilage regeneration are also welcome. It is hoped that this Special Issue will stimulate new research and discoveries in the field of hydrogels and cartilage tissue engineering.

Guest Editors

Prof. Dr. Wei Wei

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Dr. Huitang Xia

Deadline for manuscript submissions

closed (31 March 2022)



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About the Journal

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.

Editor-in-Chief

Prof. Dr. Esmail Jabbari

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