Special Issue

Hydrogel Composites for Bioengineering Applications

Message from the Guest Editors

This Special Issue aims at understanding, evaluating, and reviewing the complexity of hydrogel composites and their remarkable potential to provide new, exciting solutions and opportunities in bioengineering applications. Thanks to their unique properties, hydrogels represent elective materials in the biomedical field. Their hydrophilicity, biocompatibility, different macromolecular structures, and sensitivity to stimuli have ensured their growing expansion in regenerative medicine, tissue engineering, and drug delivery. The use of composite hydrogels, but also nano- and microgel composites, with superior mechanical and biological properties, has emerged as effective to stimulate or modulate specific responses. This Special Issue of *Applied Sciences*, seeks high-quality works focusing on the following topics:

- Identification of new trends and manufacturing technologies;
- Advancements in the synthesis and characterization;
- Advantages for tissue engineering, biofabrication, and drug delivery;
- Exploitation for cell encapsulation and dynamic culture (e.g., in organs-on-chips).

For further reading, please visit the ***Special Issue website.***

Guest Editors

Dr. Marta Tunesi

Department of Chemistry, Materials, and Chemical Engineering "G. Natta", Politecnico di Milano, Piazza Leonardo da Vinci 32, I-20133 Milan, Italy

Dr. Teresa Russo

Institute of Polymers, Composites and Biomaterials, National Research Council of Italy, V.le J.F. Kennedy 54 - Pad. 20 Mostra d'Oltremare, 80125 Naples, Italy

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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