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# Recent Advances in Multifunctional Hydrogel and Its Application

Guest Editors:

### Dr. Yushi Liu

School of Civil Engineering, Harbin Institute of Technology, Harbin, China

## Dr. Shuang Pan

The First Affiliated Hospital of Harbin Medical University, School of Stomatology, Harbin Medical University, Harbin, China

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## **Message from the Guest Editors**

Hydrogel is a three-dimensional network polymer formed by chemical and/or physical crosslinking in aqueous solution. Modified hydrogels have many other functions. As a result, multifunctional hydrogel shows a significant and rapidly expanding role in many research areas. Hydrogels can be used as functional coatings, envelope structures, energy storage media, soil conservation, adsorption of harmful ions, and other applications in architecture, energy, and environment. Moreover, in the field of biomedicine and pharmacy, hydrogels can serve as drug carriers, wound healing dressing, tissue engineering scaffold, and other applications. Therefore, the design of novel hydrogels and their multifunctional applications present broad research prospects and need to be studied urgently.

This Special Issue fits into this framework and aims to gather research papers and review articles exploring novel multifunctional hydrogels and their application areas. The collected research topics include but are not limited to preparation and design of hydrogel, characterization, multifunctional evaluation, applications, numerical simulation, etc.







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## **Editors-in-Chief**

#### Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

## Dr. Emerson Coy

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

## **Message from the Editorial Board**

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