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Design, Synthesis and Applications of Organic Framework Materials

Guest Editor:

Dr. Jianhua Zhang
Department of Polymer Science and Engineering, School of Chemical Engineering and Technology, Tianjin University, Tianjin, China

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Message from the Guest Editor

As a new kind of key material, porous organic polymer materials merging multiple features of polymers and porous materials have promptly obtained widespread interest. Especially, porous polymer materials such as covalent organic frameworks (COFs), hydrogen-bonded organic frameworks (HOFs), metal organic frameworks (MOFs), polymers of intrinsic microporosity (PIMs), conjugated microporous polymers (CMPs), hypercrosslinked polymers (HCPs) and macroporous polymers from high-internal-phase emulsions (HIPEs) have been widely exploited as promising materials for electrochemistry, electronic devices, gas sorption, storage and separation, organic molecules adsorption, optoelectronics, sensing, pollutant removal, heterogeneous catalysis, environmental remediation and water treatment. Although great progress has been made, this field of research is still in its early stages. Therefore, new strategies for the design and synthesis of these above-mentioned porous polymer materials are urgently needed. This Special Issue plans to give an overview of the most recent advances in the field of porous organic polymer materials.

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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𝕏@Materials_Mdpi