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Metal-Organic Frameworks with Environmental and Biomedical Applications

Guest Editor:

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Deadline for manuscript submissions:

closed (31 January 2023)

Message from the Guest Editor

MOFs have witnessed a vast development in recent years due to an intense focus on the discovery of efficient materials for technological, biomedical and environmental applications. MOFs display appealing structural features, such as high porosity, large surface area, flexible and tuneable structures, and are suitable for encapsulating a large variety of guest molecules with a wide range of applications. Among others, MOFs are suitable candidates for addressing major contemporary challenges in the environmental and biomedical fields. Concerning the latter, the use of MOFs in drug delivery, drug purification, imaging, photodynamic therapy, targeted drug therapy, etc., could improve fundamental issues in drug development and therapeutic processes. Furthermore, the application of MOFs as adsorbents and sensors for toxic species could be beneficial for environmental challenges, including the greenhouse effect, the pollution of the air and the aquatic ecosystems. This Special Issue aims to present research that focuses on the biomedical environmental applications of MOFs, and identify and review the recent developments and breakthroughs in these fields













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Message from the Editor-in-Chief

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