applied sciences

IMPACT FACTOR 2.5

CITESCORE 5.3

an Open Access Journal by MDPI

Metal Organic Frameworks: Design, Synthesis and Application

Guest Editors:

Prof. Dr. Mpitloane Joseph Hato
Nanotechnology Research Lab, Department of Chemistry, University of Limpopo, Polokwane, Sovenga 0727, South Africa

Prof. Dr. Richard Moutloali
Institute for Nanotechnology and Water Sustainability, University of South Africa (Florida Science Campus), Johannesburg, South Africa

Deadline for manuscript submissions:
closed (25 February 2022)

Message from the Guest Editors

Dear Colleagues,

Metal–organic frameworks (MOFs) have attracted a great deal of attention for a variety of applications owing to their high adsorption capacities relative to other porous materials. By use of different organic and inorganic constituents, MOFs can be synthesised in a variety of sizes, morphologies, and with different porosities and surface functionalities. Accordingly, MOFs and their derivatives have been employed in many applications such as clean energy storage (e.g., batteries, catalysis, supercapacitors) and water remediation. Similar to that on other technologies, research on MOFs in the upcoming two or three decades will move towards the direction where MOF materials can deliver societal benefits by solving real-world challenges. Taking technology from laboratory to applications is always a mammoth task to deal with. This Special Issue brings together the scattered literature and experimental observations that address the design, production, and the use of MOF materials in a variety of applications.

Prof. Dr. Mpitloane Joseph Hato
Prof. Dr. Richard Moutloali
Guest Editors

applied sciences

IMPACT FACTOR 2.5

CITESCORE 5.3

an Open Access Journal by MDPI

Editor-in-Chief

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
𝕏@Applsci