

Special Issue

Properties and Applications of Porous Materials

Message from the Guest Editor

Today's world is fast approaching the biggest energy crisis seen in recorded history. "Dirtier" energy sources, such as fossil fuels, are still dominating the market, but their detrimental impact on the environment and public health are demanding a shift towards "cleaner" and renewable alternatives. With these aims, the implementation of reusable gases as fuel sources becomes particularly compelling, as it would build upon existing infrastructure and contribute to the management of the otherwise produced waste. For this to become a reality, the current popular energy-intensive cryogenic gas separation and purification processes would have to be superseded, and safer storage achieved. This Special Issue aims to cover the recent developments in porous materials research for adsorption-based gas storage and separation processes. keywords

- porous materials
- gas and vapor adsorption
- metal organic frameworks
- zeolites
- activated carbons
- porous polymers

Guest Editor

Dr. Jon Grahame Bell

Swiss Federal Laboratories for Materials Science and Technology,
Dübendorf, Switzerland

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