



Porous Ceramics: Structure Analysis and Applications

Guest Editor:

Dr. Xin Liu

School of Engineering, College of
Health and Science, University of
Lincoln, Brayford Pool, Lincoln
LN6 7TS, UK

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Message from the Guest Editor

This Special Issue aims to showcase the latest advancements in relevant research on the production of advanced porous ceramics, with a focus on tailoring pore structures and properties for specific applications. Emphasis will be placed on the fabrication processes responsible for determining pore structures, geometries, surface chemistry, and their potential to reduce the overall carbon footprint in porous ceramic production (such as additive manufacturing techniques), emerging as a promising method for producing components of porous ceramics. This Special Issue also seeks to underscore the potential applications of advanced porous ceramics in energy and environmental contexts such as energy storage and conversion, water purification, the degradation of pollutants, and hydrogen production. Research areas includes but are not limited to:

- (1) the fabrication, functionalization, and characterization of porous ceramic materials with desired pore configuration and geometry;
- (2) the exploration of correlations between process, structure, and properties;
- (3) circular porous ceramic materials;
- (4) the application of porous ceramics in environmental- and energy-related scenarios.





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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, St. Alban-Anlage 66
4052 Basel, Switzerland

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