



## Ceramic Membranes for Fuel Cell Applications and Hydrogen Production

Guest Editor:

**Dr. Sandrine Ricote**

Department of Mechanical  
Engineering, Colorado School of  
Mines, 1500 Illinois Street,  
Golden, CO 80401, USA

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### Message from the Guest Editor

You are warmly invited to submit your original work or a review article to this Special Issue of *Membranes* entitled “Ceramic Membranes for Fuel Cell Applications and Hydrogen Production”.

Over the last few decades, researchers have investigated two types of fuel cells based on ceramic membranes: Solid Oxide Fuel Cells (SOFCs) and Protonic Ceramic Fuel Cells (PCFCs). The progress has led to a decrease in the operating temperature, from 1000 to below 700 °C, a significant improvement in performance, as well as a noteworthy increase in lifetime. Ceramic-based membranes have also been developed for hydrogen production using electrolysis or gas separation. The aim of this Special Issue is to provide an overview of the latest results obtained in the field and to highlight possible research directions to further advance the development of these technologies.

### Keywords

- gas separation
- fuel cell
- ceramic membrane
- electrolysis
- oxygen transport membrane
- hydrogen transport membrane





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## Editor-in-Chief

**Prof. Dr. Spas D. Kolev**

School of Chemistry, The  
University of Melbourne,  
Melbourne, VIC 3010, Australia

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Membranes Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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