Special Issue

Advances of Solid Oxide Fuel Cells

Message from the Guest Editors

Solid oxide fuel cells (SOFCs) use solid, ceramic materials to effectively achieve high efficiency without the requirement of costly metals. A single unit consists of cathode, electrolyte, anode, and their interconnections, whereby the electrolyte can be oxygen ion-conducting or proton-conducting. SOFCs are more fuel-flexible compared to other types of fuel cells and tolerate some impurities from fossil fuels, such as natural gas. They are promising for use in a variety of stationary power applications and auxiliary power units for heavy-duty trucks. For this Special Issue, we are seeking submissions of research on the topics of new synthesis, structures, and characterization of electrolytes, electrodes, and catalysts. Submissions focused on new concepts regarding cell/stack design and theoretical calculations are also of interest, as are those dealing with any other topic that falls within the theme of the Special Issue.

Guest Editors

Dr. Fengyu Shen

Energy Storage & Distributed Resources Division, Lawrence Berkeley National Laboratory, Berkeley, CA 94720, USA

Dr. Yucun Zhou

School of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA

Deadline for manuscript submissions

closed (30 September 2023)

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/si/99912

Crystals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
crystals@mdpi.com

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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