symmetry

an Open Access Journal by MDPI

IMPACT FACTOR 2.2

CITESCORE 5.4

Heterogeneous Catalysis: Topics and Advances

Guest Editors:

Dr. Bozhidar Stefanov
Department of Chemistry, Faculty of Electronic Engineering and Technologies, Technical University of Sofia, Sofia, Bulgaria

Dr. İlknur Bayrak Pehlivan
Department of Materials Science and Engineering, Solid State Physics, Uppsala University, Box 35, 751 03 Uppsala, Sweden

Prof. Dr. Silvia Todorova
Institute of Catalysis, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria

Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editors

Dear Colleagues,

Heterogeneous catalysis has seen a surge in academic interest due to its important applications, such as renewable-energy conversion, environmental remediation, organic products synthesis and transformations, green catalysis, and many others. Although unnoticed on its own, symmetry and its implications is often a main topic of research in the field of catalysis. Hence, this Special Issue of *Symmetry* is dedicated to the theme "Heterogeneous Catalysis: Topics and Advances."

The issue is open to submissions covering any aspects of heterogeneous catalysis, fundamental or practical. Special attention will be paid to research, focused on the the implications of symmetry in catalysis, such as (but not limited to): effects of crystallographic structure, shape and orientation on catalytic activity; effects of substrate symmetry in catalysis; symmetric/asymmetric activity and reaction pathways in catalysts; effects of support morphology and structure on catalytic activity (e.g., photonic effects in photocatalysts supported on highly-ordered substrate), etc.

symmetry

IMPACT FACTOR 2.2

CITESCORE 5.4

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/symmetry
symmetry@mdpi.com
𝕏@Symmetry_MDPI