Special Issue

Nanomaterials for Energy and Environment Applications

Message from the Guest Editors

Establishing current clean energy resources is essential for developing renewable, sustainable, economic, and eco-friendly strategies to tackle the impending energy crisis. Recently, the potential developments in the design of nanomaterials and their synthesis procedures have been focused on to cater to clean energy needs. This Special Issue aims to present research articles that showcase the development of the new and modular synthesis of the nanomaterials that enhance the pollution-free aspect of the green energy race. Research analysis fused with theory, simulation, and experiment is desired to work out the challenges the green energy race faces that are bound to the electrochemical (EC) and photo-electrochemical (PEC) systems. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Nanomaterials for energy conversion and storage systems;
- Photocatalysis;
- Electrocatalysis;
- Organic and Inorganic Photovoltaics;
- Fuel Cells;
- Metal-gas (O2/N2/CO2) Batteries;
- Solar Cells;
- Energy technologies for sustainable environment.

Guest Editors

Prof. Dr. Uk Sim

Department of Materials Science and Engineering, Chonnam National University, Gwangju 61186, Republic of Korea

Dr. Subramani Surendran

Hydrogen Energy Technology Laboratory, Korea Institute of Energy Technology (KENTECH), 200 Hyeoksin-ro, Naju, Jeonnam 58330, Republic of Korea

Deadline for manuscript submissions

closed (31 October 2022)

AppliedChem

an Open Access Journal by MDPI

CiteScore 2.9
Tracked for Impact Factor

mdpi.com/si/98764

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

mdpi.com/journal/appliedchem

AppliedChem

an Open Access Journal by MDPI

CiteScore 2.9
Tracked for Impact Factor

mdpi.com/journal/appliedchem

About the Journal

Message from the Editor-in-Chief

Impactful chemistry often arises from the marriage of disparate chemical themes and fundamental concepts to focus on an important application and can feature collaborations across the sciences, industry, and beyond. This open access journal, *AppliedChem*, has been created to provide a new home for chemistry research that affords wide-ranging and substantive solutions to current and future global challenges. The broad scope of the journal will enable the best collaborative and targeted chemistry to be exhibited and new applications to be revealed.

Editor-in-Chief

Prof. Dr. Jason Love
School of Chemistry, University of Edinburgh, Edinburgh EH9 3FJ, UK

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within ESCI (Web of Science), Scopus, CAPlus / SciFinder, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20.5 days after submission; acceptance to publication is undertaken in 5.6 days (median values for papers published in this journal in the first half of 2025).

MDPI