## Special Issue

## Advanced Research and Applications of Coal-Derived Materials

## Message from the Guest Editors

This Special Issue will highlight recent advances in the conversion of coal into value-added products and their innovative applications across various sectors exploring the transformation of coal into solid, liquid, and gaseous products through pyrolysis, gasification, and hydrothermal processes, with an emphasis on sustainability and resource utilization. Coal-derived solid products such as char, carbon anodes, carbon fiber, and graphene oxide have, due to their unique properties, shown great promise in applications such as energy storage, catalysis, and environmental remediation. This Special Issue also seeks to highlight the roles played by coal-derived liquid products, which serve as potential feedstocks for chemicals, fuels, and industrial solvents, offering an alternative to petroleum-based resources. Moreover, coal-derived gas products like syngas and hydrogen can support clean energy initiatives and reduce carbon emissions when utilized efficiently. This collection of studies will promote circular economy approaches by unlocking the full potential of advanced technologies deploying coal resources while also addressing the related environmental and engineering challenges.

### **Guest Editors**

Dr. Hua Yu

Department of Civil and Construction Engineering and Management, University of Texas at Tyler, 3900 University Blvd, Tyler, TX 75799, USA

Prof. Dr. Kam Ng

Department of Civil and Architectural Engineering and Construction Management, University of Wyoming, 1000 E. University Ave., Laramie, WY 82071, USA

## Deadline for manuscript submissions

20 January 2026



# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/245365

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

mdpi.com/journal/applsci





# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



## **About the Journal**

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

## **Author Benefits**

## **Open Access:**

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

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

