Special Issue

Advances in Extraction and Utilization of Coal and Shale Gas

Message from the Guest Editor

Coal and shale gas are fundamental pillars of the world's energy supply. The exploration, extraction, and utilization of coal and shale gas constitute a complex process involving evaluation, drilling, fracturing, production, and processing. Moreover, the widespread coexistence of coalbed methane and shale gas in overlapping geological formations globally makes their synergistic co-extraction not only cost-effective but also conducive to improving overall development efficiency. The large-scale and efficient extraction of deep coal and shale gas is currently constrained by technologies for reservoir stimulation and enhanced recovery. In addition, the rapid advancement and widespread application of artificial intelligence technologies hold significant potential for enhancing the efficiency of coal and shale gas development and utilization. This Special Issue aims to present and disseminate the most recent advances related to the exploration, extraction, and utilization of coal and shale gas.

Guest Editor

Dr. Rui Li
State Key Laboratory of Coal Mine Disaster Dynamics and Control, Chongqing University, Chongqing 400044, China

Deadline for manuscript submissions

25 September 2026

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/261773

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, 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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)

MDPI