

Special Issue

CO₂ Reduction and H₂ Promotion Techniques in Energies

Message from the Guest Editors

This [Special Issue](#) invites papers using a wide range of techniques for hydrogen production and CO₂ capture and storage. The main source of CO₂ is sustainable energy sources such as coal and biomass combustions. For CO₂ reduction, gasification and pyrolysis techniques were used to capture and store CO₂ emission. However, researchers still face certain limitations, such as the huge energy demands of CO₂ capture, which leads to the high cost of these operations. Additionally, different techniques are still needed for CO₂ reduction and enhancing hydrogen production. This Special Issue invites papers covering not only gasification and pyrolysis techniques but also CO₂ capture and storage and controllable solutions for air pollutants. Papers focusing on socio- and economic analysis of the whole IGCC system and how biomass and coal can be used as clean energy for sustainable energy are welcome, as are papers using a wide range of techniques for CO₂ reduction and H₂ promotion in energies.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2023)



Energies

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Impact Factor 3.9
CiteScore 8.3



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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.

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