Special Issue

Green Hydrogen Energy Production

Message from the Guest Editor

Green hydrogen energy production represents a transformative step towards a more sustainable and environmentally friendly future regarding energy use. The significance of green hydrogen lies in its potential to decarbonize various industries, from transportation to power generation. Unlike fossil fuel-derived hydrogen, green hydrogen offers a clean and renewable alternative. It can be stored and transported efficiently, enabling its use as a backup energy source or as a fuel for hydrogen-powered vehicles. The production of green hydrogen also contributes to the growth of renewable energy infrastructure. As more renewable energy sources are deployed to generate electricity for electrolysis, the overall dependency on fossil fuels decreases. This transition not only reduces carbon emissions but also promotes energy security and resilience. This Special Issue aims to present and disseminate the most recent advances related to the theory, design, modeling, application, policy, and security in the aspect of green hydrogen energy production.

Guest Editor

Dr. Bin Li

School of Safety Science and Engineering (School of Emergency Management), Nanjing University of Science and Technology, Nanjing, China

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

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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

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