



Empowering Safe and Sustainable Hydrogen Energy Systems: Challenges, Innovations, and Emerging Frontiers

Guest Editor:

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Message from the Guest Editor

Through this collaborative effort, we aim to foster knowledge exchange, spur innovation, and pave the way for a hydrogen-powered sustainable future.

Potential topics related to hydrogen include the following:

1. Advanced hydrogen production technologies (e.g., electrolysis, reforming, biomass conversion);
2. Hydrogen storage materials and techniques (e.g., solid-state storage, chemical storage);
3. Hydrogen transportation and distribution infrastructure;
4. Safety standards and risk assessment in hydrogen handling and storage;
5. Hydrogen fuel cells: efficiency, durability, and cost reduction strategies;
6. Life cycle assessment of hydrogen production and utilization systems;
7. Hybrid energy systems: integration of hydrogen with renewable energy sources;
8. Hydrogen applications in industry and power generation;
9. Policy frameworks and regulatory mechanisms to promote hydrogen adoption;
10. Socio-economic impacts and public acceptance of hydrogen technologies.





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Message from the Editor-in-Chief

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