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## Production and Utilization of Hydrogen and Future Aspects

Guest Editors:

### **Prof. Dr. Udishnu Sanyal**

Chemical & Biological Processing  
Group, Energy & Environmental  
Science Directorate, Pacific  
Northwest National Laboratory,  
PO Box 999, MSIN: K2-57,  
Richland, WA 99352, USA

### **Dr. Katherine Koh**

Pacific Northwest National  
Laboratory, MSIN: K2-57, PO Box  
999, Richland, WA 99352, USA

### **Dr. Abhishek Kumar**

Applied Chemistry and Eng,  
Pacific Northwest National  
Laboratory, Richland, WA, USA

Deadline for manuscript  
submissions:

**closed (30 November 2022)**

### **Message from the Guest Editors**

Dear Colleagues,

This research topic is primarily to gain insights into the latest developments of sustainable hydrogen production and applications in both academia and industry, and to understand the challenges that are associated with its large-scale deployment as technologies. This research topic covers but is not limited to the following concepts:

- Hydrogen production from water splitting, using technologies such as photoelectrolysis, proton exchange membranes, intermediate and high temperature electrolysis cells, solar thermochemical hydrogen production;
- Hydrogen production from the biomass;
- Hydrogen carriers such as ammonia, methane, methanol and liquid organic hydrogen carriers (LOHC);
- Catalyst developments, component designs, and system innovations for sustainable hydrogen production;
- Technoeconomic and life-cycle analysis of the societal impacts of sustainable hydrogen production;
- Analysis and evaluation of hydrogen-based economics.



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Dr. Katherine Koh  
Dr. Abhishek Kumar  
*Guest Editors*

# Special Issue



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## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## 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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*Energies* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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