

Track 9:

Integrated Hydrogen Energy Systems

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DESCRIPTION OF THE TRACK

WHEC-2022 is a multidisciplinary international conference hosted by the International Association of Hydrogen Energy. The conference will offer both onsite and online presentations and exhibitions. In this track, authors are cordially invited to submit their extended abstracts in the field of Integrated Hydrogen Energy Systems. Some key topics are listed here as a guide for the authors. The authors should submit their extended abstracts with a choice for either oral or poster presentations.

KEY TOPICS

(Topics include but not limited to the following)

- Hydrogen utilization
- Integrated fuel cell-gasification cycles
- Combined hydrogen energy systems
- Hydrogen storage integration to renewables
- Integration of hydrogen carriers to energy systems
- Renewable energy storage via hydrogen
- Thermodynamic analysis of integrated hydrogen energy systems
- Life cycle assessment of hydrogen energy systems
- Exergoeconomic analysis of hydrogen energy systems
- Exergoenvironmental analysis of hydrogen energy systems
- Optimization of hydrogen energy systems
- Reversible fuel cell integrated energy systems
- Cascaded hydrogen energy systems
- Hybrid hydrogen energy systems
- Cleaner natural gas-to-hydrogen systems
- Decarbonization of hydrocarbons via hydrogenization
- Integration of hydrogen and carbon dioxide conversion systems

Important Dates

Extended abstract due:

December 15, 2021

Notification of abstract acceptance:

February 15, 2022

WHEC2022 Tracks

- Track 1: Hydrogen Production: Thermochemical and Photonic Methods
- Track 2: Hydrogen Production: Electrolysis
- Track 3: Hydrogen Production: Biological Methods and Biohydrogen
- Track 4: Hydrogen Production: Nuclear
- Track 5: Hydrogen Separation and Purification
- Track 6: Hydrogen Storage
- Track 7: Fuel Cells: PEMFC
- Track 8: Fuel Cells: SOFC and other types
- Track 9: Integrated Hydrogen Energy Systems
- Track 10: Power to Gas
- Track 11: Hydrogen Safety
- Track 12: Codes, Standards and Regulations
- Track 13: Strategies and Policies
- Track 14: Hydrogen Industry, Commercialization and Marketing, Applications
- Track 15: Hydrogen Economy, Logistics, Infrastructure
- Track 16: Environmental Impact and Sustainable Development
- Track 17: Social Dimensions

