

Call for Papers
Oil & Gas Science and Technology - Revue d'IFP Energies nouvelles
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Topical Issue

**“Selected Papers from 7th International Symposium on Hydrogen Energy,
Renewable Energy and Materials (HEREM), 2021”**

Guest Editor

Professor Mohan Lal Kolhe,
Professor in Smart Grid & Renewable Energy,
Faculty of Engineering & Science,
University of Agder
PO Box 422, NO 4604, Kristiansand, Norway

In order to develop a smart and energy efficient decentralized power network, electro-chemical energy storage can play an important role for increasing penetration of renewable energy systems. Hydrogen offers a promising alternative for long-term energy storage. The role of hydrogen in the energy transition is emphasized; as hydrogen is a versatile, clean, and safe energy carrier that can be used as fuel for power or in industry as feedstock. Hydrogen based energy systems can be utilized in distributed combined and heat and power generation, chemical and fertilizer industries, transportation, and in long-term energy storage. Materials are essential part in endowing energy technologies. Electro-chemical-mechanical energy conversion processes are materials-intensive systems and they require precious materials, and there is strong requirement of sustainable life-cycle materials optimization process.

The 7th International Symposium on Hydrogen Energy, Renewable Energy and Materials (HEREM), will be organized in Shanghai (China) on 22–23 October 2021. The HEREM 2021 will be one of the most recognizable conferences in hydrogen energy systems and renewable energy technologies. The HEREM 2021 is going to encompass the advancements in integration of various energy technologies with electro-chemical energy storage, energy conversion technologies, energy materials, etc. The key aspects of electro-chemical energy storage including hydrogen production and utilization processes are also going to be covered. The role of catalysis for greenhouse gas conversion into fuels, materials advancement in milling tools, advancements in power conditioning devices for renewable energy integration, energy efficient hydro-carbon processes, etc. are the key themes of HEREM 2021.

From the very beginning, the HEREM has been a unique platform for publishing and sharing the progressions in hydrogen energy, energy processes and materials technologies. It is expected that hydrogen economy is going to progress exponentially, and hence the HEREM 2021 is going to aim on providing an excellent occasion to the energy scientists, academicians, entrepreneurs, policymakers, to highlight their novel contributions in hydrogen energy systems. The HEREM 2021

is particularly aimed at hosting scientific contributions presented by young researchers and PhD students who meet each other, as well as with experienced researchers and professors, to discuss their research lines and to highlight their novel hydrogen energy technologies with integration of renewable energy systems. In this Topical Issue of 'Oil & Gas Science and Technology - Revue d'IFP Energies nouvelles', (e-ISSN: 1953-8189), we invite investigators to contribute both original research articles and review articles that will explore as many aspects as possible to demonstrate the applications and progressions in hydrogen and energy technologies along with advancements in energy materials systems. The journal (e-ISSN: 1953-8189) articles are indexed in well-established databases / archives (SCI, Scopus, etc.).

Topics of interest for publication include, but are not limited to:

- Hydrogen Energy Technologies (e.g. Electrolyzers, Fuel cells, etc.)
- Electro-Chemical Energy Conversion Processes
- Electro-Mechanical Energy Conversion Processes
- Energy Materials
- Role of Hydrocarbon Systems in Energy Transition
- Alternative Energy Technologies
- Hydrocarbon Energy Economics and Policies

Prospective authors are invited to submit full length and original research papers (which is NOT submitted / published / under consideration anywhere in any other conferences / journals). This topical issue also welcomes extended papers from the HEREM2021 conference proceedings based on recommendations of the technical committee, and extended paper must be sufficiently different from the conference proceeding paper.

Important dates:

Open for submission: April 01, 2021

Submission deadline: September 20, 2021

Final decisions on: December 31, 2021

Suggestions for the preparation of full papers:

Manuscripts must be prepared according to the instructions of the "Guide for authors" of the journal available at:

https://ogst.ifpenergiesnouvelles.fr/images/stories/instructions/ogst_instructions-en.pdf

Online submission tutorial: <https://ogst.ifpenergiesnouvelles.fr/submit-an-article>

Note: Please select our special issue title when you submit your manuscript. All papers will be peer-reviewed by at least two independent reviewers.

Interested contributors are requested to visit herem.org for further information.

Prof. Dr. Mohan Lal Kolhe

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