



Production and Exploitation of Energy Carriers from Solar-Driven Thermochemical Processes

Guest Editors:

Dr. Roberto Solimene

Dr. Gianluca Landi

Dr. Claudio Tregambi

Dr. Maurizio Troiano

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submissions:

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Message from the Guest Editors

Dear Colleagues,

The aim of this Special Issue is to contribute to the widespread diffusion of the scientific and technological knowledge on the production and exploitation of energy carriers obtained by solar-driven thermochemical processes. The topics of interest include but are not limited to:

- Thermal energy storage as sensible or latent heat from concentrated solar radiation;
- Solar-assisted thermochemical cycles for the production of green fuels (e.g. H₂, CO, syngas) or solid materials for long-term and/or long-duration energy storage;
- Advanced materials for thermochemical cycles showing improved redox properties (thermodynamics, kinetics, etc.);
- Solar-assisted biomass thermoconversion: reactor design, operation and performance;
- Advanced structured reactors with improved energy and mass transfer efficiency under concentrated sunlight;
- Stationary and mobile thermoconversion of solar-derived fuels;
- Catalytic-assisted solar thermoconversion of solids: development of highly effective catalysts.





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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

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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