Special Issue

Modelling of Combustion and Detonation of Hydrogen

Message from the Guest Editor

Numerical modelling is currently one of the most advanced scientific and engineering tools and is still undergoing development. Combustion processes involving complex flows, turbulence, and chemical kinetics remain a challenge of using this approach. One interesting direction involves combining combustion modelling with the acoustics and dynamics of construction. Hydrogen fuel is systematically introduced in transportation and power generation as a safe and sustainable energy carrier. The introduction and commercialisation of hydrogen as an energy carrier of the future places great demands on all aspects related to its safe storage, distribution, and use. Technologies and applications allowing the use of hydrogen in combustors or fuel cells should provide at least the same level of safety, reliability, and comfort as today's fossil energy carriers. These issues are the subject of numerous research efforts.

Guest Editor

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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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