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Modelling of Combustion and Detonation of Hydrogen

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Message from the Guest Editor

Dear Colleagues,

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.



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Special Issue



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Message from the Editor-in-Chief

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