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Advances in Turbulent Combustion

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Message from the Guest Editors

Turbulent combustion of gaseous and liquid fuels is widely used for energy conversion in stationary power generation , aviation, land and maritime transport, and the construction industry.Yet, our understanding of the fundamentals of turbulent burning and capabilities for predicting its major characteristics are still limited. There are numerous unresolved issues relevant to turbulent flames and both fundamental and applied studies of these issues are still relevant and highly necessary. This necessity is especially urgent due to the threat of global warming, which poses new challenges for combustion science. To adequately respond to challenges, both classical and new, combustion science and technology should rapidly be advanced by adopting all available research tools, combining experiments, theory, and numerical simulations and taking new opportunities. Accordingly, this Special Issue is intended to provide an international forum for researchers from industry and academia to present their ideas and the latest developments the field of turbulent combustion, including developments of new research methods, both experimental and numerical.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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