



Flame Dynamics and Combustion Instability

Guest Editor:

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submissions:

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Message from the Guest Editor

Dear Colleagues,

Unsteadiness in chemically reacting flows is ubiquitous. In many practical cases, the appearance of combustion instabilities is undesirable, and obtaining physical insights into their mechanisms is scientifically important and challenging. Our understanding of flame dynamics, intrinsic instabilities in premixed and nonpremixed flames, and the effects of coupling with other system instabilities has advanced in recent years. This Special Issue of *Fluids* invites the submission of contributions on new developments in our fundamental understanding of these unsteady phenomena, novel CFD-based and/or data-driven modeling of flame dynamics and combustion instabilities, and advanced techniques for diagnostics and control.

Dr. Sili Deng
Guest Editor





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Message from the Editor-in-Chief

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