



COMBUSTION AND FLAME

The official journal of the [Combustion Institute](#)

AUTHOR INFORMATION PACK

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DESCRIPTION

The mission of the journal is to publish high quality work from experimental, theoretical, and computational investigations on the fundamentals of **combustion** phenomena and closely allied matters. While submissions in all pertinent areas are welcomed, past and recent focus of the journal has been on:

Development and validation of reaction kinetics, reduction of reaction mechanisms and modeling of combustion systems, including: Conventional, alternative and surrogate fuels; Pollutants; Particulate and aerosol formation and abatement; Heterogeneous processes.

Experimental, theoretical, and computational studies of laminar and turbulent combustion phenomena, including: Premixed and non-premixed flames; Ignition and extinction phenomena; Flame propagation; Flame structure; Instabilities and swirl; Flame spread; Multi-phase reactants.

Advances in diagnostic and computational methods in combustion, including: Measurement and simulation of scalar and vector properties; Novel techniques; State-of-the art applications.

Fundamental investigations of combustion technologies and systems, including: Internal combustion engines; Gas turbines; Small- and large-scale stationary combustion and power generation; Catalytic combustion; Combustion synthesis; Combustion under extreme conditions; New concepts.

Note: Manuscripts on **combustion technologies and systems** need to include research approaches and results that address fundamental combustion problems of relevance to a specific application. Manuscripts of clearly applied nature that include device-specific results will be rejected without review.

AUDIENCE

Mechanical and chemical engineers and Researchers in the field of combustion.

IMPACT FACTOR

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[2] H. Terashima, M. Koshi, Mechanisms of strong wave generation in end-gas autoignition during knocking combustion, *Combust. Flame* (2014), <https://doi.org/10.1016/j.combustflame.2014.12.013>.

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