



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.

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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

2015: 4.168 © Thomson Reuters Journal Citation Reports 2016

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

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[3] P. Prasad, Propagation of a curved shock and nonlinear ray theory, Longman Scientific & Technical, Harlow, U.K., 1993. You may also include the page or page range (optional).

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[6] A. Attili, F. Bisetti, M.E. Mueller, H. Pitsch, Damköhler number effects on soot formation and growth in turbulent premixed flames, *Proc. Combust. Inst.* 35 (2015) 1215-1223.

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[8] A.S. Johnson, F.W. Adams, Use of laser diagnostics in supersonic flows, Report No. SAND87-8003, Sandia National Laboratories, Livermore, CA, USA, 1987. Authors must ensure that these references are publicly available.

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AFTER ACCEPTANCE

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