



# COMBUSTION AND FLAME

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

## AUTHOR INFORMATION PACK

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### DESCRIPTION

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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

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

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[1] A.L. Sánchez, E. Fernández-Tarrazo, F.A. Williams, The chemistry involved in the third explosion limit of H<sub>2</sub>O<sub>2</sub> mixtures, *Combust. Flame* 161 (2014) 111-117.

**Journal article in press:**

[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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[4] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281-304.

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[5] Y. Ju, G. Masuya, P.D. Ronney, Effects of radiative emission and absorption on the propagation and extinction of premixed gas flames, *Symp. (Int.) Combust.* 27 (1998) 2619-2626.

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**Internal Reports:**

[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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