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- ▶ Heat Transfer Research, Volume 41, Issue 1 (Published date: **January 01, 10**)
- ▶ Journal of Automation and Information Sciences, Volume 41, Issue 1, Published date: **January 30, 09**
- ▶ Journal of Automation and Information Sciences, Volume 41, Issue 1, Published date: **January 30, 09**
- ▶ Critical Reviews™ in Physical and Rehabilitation Medicine, Volume 41, Issue 1, Published date: **December 21, 09**
- ▶ Telecommunications and Radio Engineering, Volume 68, Issue 207 Published date: **December 16, 09**

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Upcoming conferences

- ▶ 20th National and 9th International ISHMT-ASME Heat and Mass Transfer Conference 4-6 January, 2010, Bombay, India
- ▶ 48th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition 4-7 January, 2010, Orlando, FL, USA
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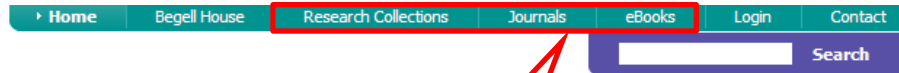


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Large Particle Transport in Porous Media: Effect of Pore Plugging on the Macroscopic Transport Properties

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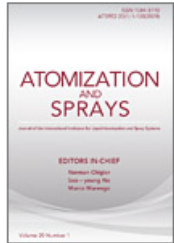
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ATOMIZATION AND SPRAYS



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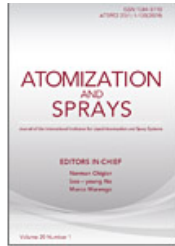
Aims and Scope

The application and utilization of sprays is not new, and in modern society, it is extensive enough that almost every industry and household uses some form of sprays. What is new is an increasing scientific interest in atomization - the need to understand the physical structure of liquids under conditions of higher shear rates and interaction with gaseous flow. This need is being met with the publication of Atomization and Sprays, an authoritative, international journal presenting high quality research, applications, and review papers.

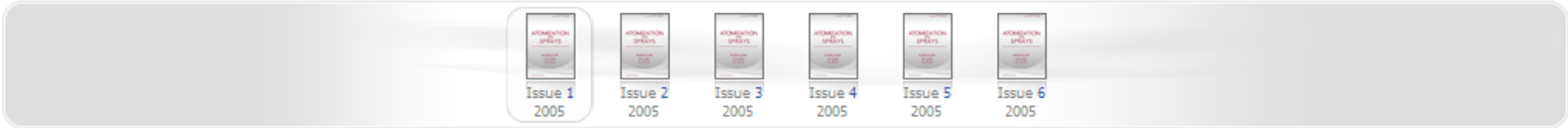
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ING THE "STABILIZED COOL FLAME"

M. A. Founti

Laboratory of Heterogeneous Mixtures and Combustion Systems, School of Mechanical Engineering, National Technical University of Athens, Heron Polytechniou 9, Polytechniupoli Zografou, 15780 Athens, Greece

作者介绍

School of Mechanical Engineering, National Technical University of Athens, Heron Polytechniou 9,

D. I. Kolaitis

Laboratory of Heterogeneous Mixtures and Combustion Systems, Thermal Engineering Department, School of Mechanical Engineering, National Technical University of Athens, Heron Polytechniou 9, Polytechniupoli Zografou, 15780 Athens, Greece

ABSTRACT

文摘信息

An alternative approach to enhance conventional liquid fuel atomization is presented in this work. The atomization process is modeled using a stochastic approach, based on the solution of the RANS equations. Such a reactor exploits the "stabilized cool flame" phenomenon, augmenting local evaporation rates and leading to a partially oxidised mixture that can be subsequently burnt. A Eulerian-Lagrangian formulation is adopted for the description of the gas field and droplet motion equations, respectively, and a stochastic approach is implemented to account for the effects of turbulence on the droplet motion. Droplet evaporation is modeled with the use of

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Breast Cancer Bone Disease. CRE Vol. 19, Issue 1.

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Publication Date: January 1, 2007
Authors: Brewster M. Quinn; Begley S. M.
Research Collections: The Engineering Research Collection
DOI: 10.1615/IntJEnergeticMaterialsChemProp.v6.i1.80

This paper describes theory and practice of determining optical or thermal radiative properties of nano-energetic materials using light scattering theory and measurement techniques. First, the theory and applicability of particle light-scattering to nano-materials are discussed, proceeding from single-scattering behavior to multiple scattering and from independent scattering to dependent scattering. Finally, the application of light scattering to nano-molybdenum trioxide (MoO₃) and nano-aluminum is discussed.

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