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DESCRIPTION

Founded in 1970, the Journal of Aerosol Science considers itself the prime vehicle for the publication of original work as well as reviews related to fundamental and applied aerosol research, as well as aerosol instrumentation. Its content is directed at scientists working in engineering disciplines, as well as physics, chemistry, and environmental sciences.

The editors welcome submissions of papers describing recent experimental, numerical, and theoretical research related to the following topics:

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   a. Cluster Science; Nucleation and Growth
   b. Aerosol Transport Phenomena, Kinetics, and Deposition
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   e. Particle-Fluid Interactions in Flowing Systems
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   i. Chemical and Physical Transformations in Aerosols; Gas-to-Particle Conversion
   j. Single Particle and Droplet Thermodynamics, Phase Changes within Aerosol Particles
   m. Multiscale Modeling of Aerosol Properties and Behavior (e.g. Molecular Dynamics coupled with Continuum Models)

2. **Applied Aerosol Science:**
   a. Aerosol based Manufacturing (including aerosol jet printing & additive manufacturing), Aerosol based Materials Synthesis, and Aerosol based Materials Processing
   b. Aerosol Control Technology (personal protection, indoor environments, industrial control technology)
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   d. Bioaerosols
   e. Industrial Aerosols, Workplace Exposure, Accidental Aerosol Release
   f. Combustion (including Engine Emissions) and High Temperature Aerosol Dynamics
g. Atmospheric Aerosol Science; Secondary Organic Aerosols; Aerosols & Climate;
h. Indoor Aerosols: Source Characterization, Chemical Transformation, and Transport
i. Aerosol based Disease Transmission
j. Aerosols in Urban Environments

3. Instrumentation & Measurement Methods
a. Mobility Analysis: new instruments and new applications
b. Hyphenated techniques, including tandem mobility analysis and mobility analysis coupled with mass spectrometry
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h. Portable Aerosol Instrumentation
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j. Aerosol Instrumentation at Multiple Scales; Instrumentation Integration and Networking
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Beside originality, a very important criterion for acceptance of a submission is its ability to communicate conclusions of general relevance to a given field.

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AUDIENCE

Physicists, Chemists, Biologists, Mathematicians, Engineers, Environmental and Industrial Hygienists and all others with an interest in aerosols.

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