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:

1. Fundamental Aerosol Science:
   a. Cluster Science; Nucleation and Growth
   b. Aerosol Transport Phenomena, Kinetics, and Deposition
   c. Aerosol-Light Interactions; Radiative absorption and emission by particles
   d. Particle-Particle Interactions and Aggregation
   e. Particle-Fluid Interactions in Flowing Systems
   f. Particle-Ion Interactions, Charging and Ionization
   g. Aerosolization, including Mechanical Aerosolization, Atomization, and Sprays
   h. Deposition (Dry and Wet) & Resuspension
   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)
   c. Drug Delivery & Medical Applications of Aerosols
   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  
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j. Aerosols in Urban Environments

3. Instrumentation & Measurement Methods  
a. Mobility Analysis: New Instruments and New Applications  
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c. Light Scattering and Spectroscopic Techniques  
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e. Condensation Particle Counter Developments  
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h. Portable Aerosol Instrumentation  
i. Low Cost, High Quality Sensors  
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k. Innovative Data Analysis Methods; Machine Learning in Aerosol Science

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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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