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Descrizione fisica	1 online resource (XVIII, 732 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 309
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Soggetti	Geophysics Condensed matter Air pollution Geophysics/Geodesy Condensed Matter Physics Atmospheric Protection/Air Quality Control/Air Pollution
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Nota di contenuto	Contents: Formation and Characteristics of Atmospheric Aerosols: Particle Formation and Gas - Particle - Reactions. Measurements and Characterization of Atmospheric Aerosols. Dynamics of Ultrafine Aerosol Particles, Coagulation. Fractal Properties, Aerosol Characterization. Physico-chemical Properties of Aerosol Particles. Aerosol Measurement Techniques. Background Aerosols. Marine Aerosols -- Fundamental Nucleation Processes -- Cloud Droplet Nucleation -- Ice Nucleation -- Author Index.
Sommario/riassunto	These proceedings give a rather complete overview of the most recent research in the areas of fundamental processes and phase transitions, cloud droplet and ice nucleation in the atmosphere, and aerosol formation and aerosol characteristics in the atmosphere. Nine review papers on topics of special importance are supplemented by about 200 summaries on topics of greatest current importance. The volume

should be of interest to scientists working in the atmospheric and environmental sciences, in chemistry and in physics, as well as to engineers working in these areas.
