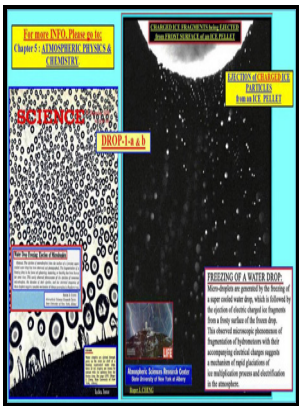
Charge separation associated with the collision of supercooled droplets on ice surfaces.

- - Electrostatic charging of jumping droplets



Description: -
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Physics ThesesCharge separation associated with the collision of supercooled droplets on ice surfaces.
-Charge separation associated with the collision of supercooled droplets on ice surfaces.
Notes: Thesis (M.Sc), Dept. of Physics, University of Toronto
This edition was published in 1971

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Rain Enhancement and Fog Elimination by Seeding with Charged Droplets. Part I: Theory and Numerical Simulations in: Journal of Applied Meteorology and Climatology Volume 43 Issue 10 (2004)

These values vary from almost zero for interactions of large drops among themselves to a value close to unity for interactions of very small drops with large ones. If you are the author of this article you still need to obtain permission to reproduce the whole article in a third party publication with the exception of reproduction of the whole article in a thesis or dissertation.

Mechanism for electric charge separation by ejection of charged particles from an ice particle growing by riming

Experimental apparatus The custom environmental chamber used for this work Kurt J. The high-speed and SLR cameras were used to image the droplet motion between the plates. Initially, the liquid nitrogen cold trap was filled to about half capacity.

Cloud Formation and the Possible Significance of Charge for Atmospheric Condensation and Ice Nuclei

This reduction in surface area of the nucleus reduces the height of the barrier to nucleation and so speeds nucleation up exponentially.

Electrostatic charging of jumping droplets

Scale bar, 20 μm b Long exposure time image 50 ms of jumping-droplet condensation on a nanostructured CuO tube showing droplet—droplet interactions and droplet return to the bottom surface against gravity see. The output power of the resistive heater lines was controlled by a voltage regulator Variac. The WISDOM setup introduces several advantages of microfluidics to the atmospheric ice nucleation field.

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