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06-09-99

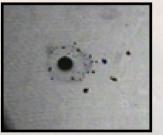


Droplet Combustion Investigations

- Study of small, spherical individual droplets
- Provide data on the fundamental aspects of droplet combustion that will provide a basis for comparison to theoretical predictions of burning droplet behaviors.
- Reflight of the Droplet Combustion Experiment flown on MSL-1
 - Methanol droplets burning in an oxygen/nitrogen environment
- Bi-Component Droplet Combustion
 - Study liquid species diffusivities and volatility differences
 - Heptane hexadecane mixtures
 - Measure flame and droplet diameters and sooting behaviors.



Visible flame image



Backlit image



Intensified OH image

MICROGRAVITY SCIENCE DIVISION SPACE DIRECTORATE