

# Characterization of Local Temperature and Molecular Concentration of Burning Jets

Raman scattering of burning jets can be used for local temperature and molecular concentration measurements. An ICCD with short gate time is used to acquire the Raman signal against the dark flame background. Researchers around Vladimir Dulin from Russia use wide field filters to acquire Raman images of burning jets.

**Featured Paper/ Publication:** [Planar Spontaneous Raman-Scattering Spectroscopy for Reacting Jet-Flow Diagnostics Using Lyot–Ehman Tunable Filter](#), Technical Physics Letters, 2018

**Reference Lab:** Vladimir Dulin, Kutateladze Institute of Thermophysics, Russia

**Products used:** [PI-MAX](#)