

Establishment of features of unstable flames propagation using 3D optical spectroscopy and color speed cinematography

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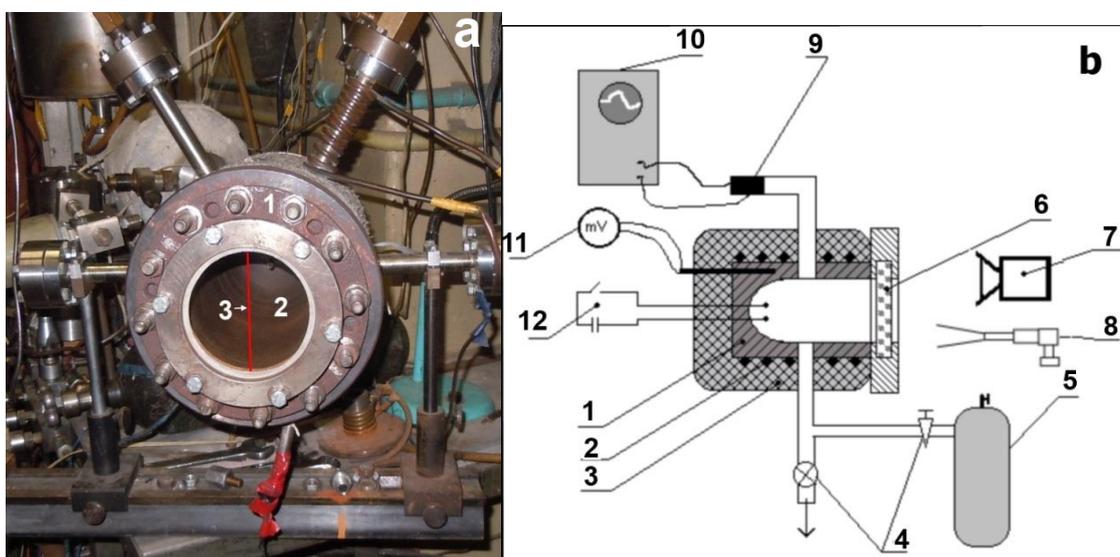


Figure S1 (a) The installation: 1 – stainless steel reactor, 2- quartz optical glass, 3 - strip on which 3D spectral recording was carried out. The width of the strip is about 1 mm.

(b) The scheme of experimental installation: 1 - reactor, 2 - electric heater, 3 - thermal insulation, 4 - valves, 5 - mixer, 6 - optical window, 7 - digital movie camera, 8 - 3D spectrometer (hyper spectrometer), 9 - pressure gauge, 10 - registration system, 11 - digital millivoltmeter, 12 - spark igniter.