

Relative contribution of gas dynamic and chemical factors to flame penetration through small openings in a closed cylindrical reactor

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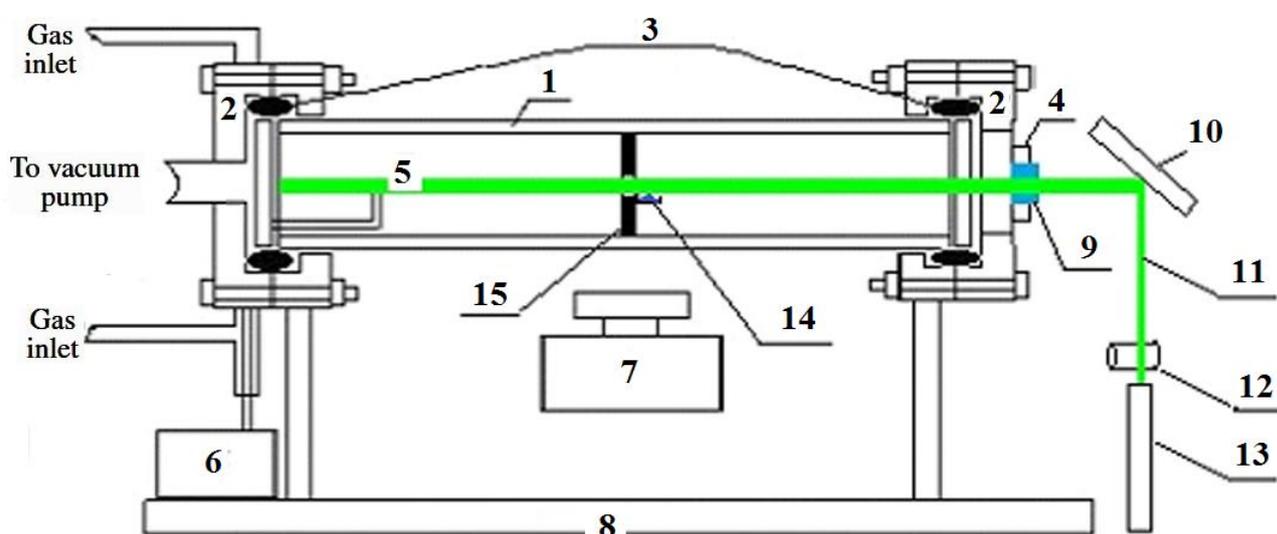


Figure S1 Experimental installation: (1) quartz reactor, (2) stainless steel gateway, (3) silicone laying, (4) stainless steel shutter, (5) spark electrodes, (6) power supply, (7) high speed color camera, (8) guard rail, (9) optical window, (10) rotary mirror, (11) laser sheet, (12) short-focus lens, (13) green laser (534 nm), (14) reservoir with fine powder, and (15) obstacle with a rectangular opening. A pressure gauge is placed on the shutter.