

Ignition of hydrogen–air mixtures over Pt at atmospheric pressure

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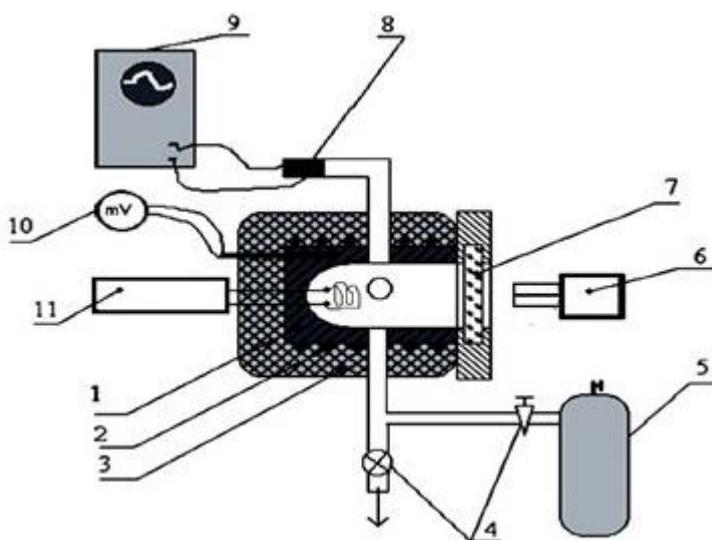


Figure S1 Schematic diagram of the experimental setup:(1) reactor, (2) electric heater, (3) thermal insulation, (4) valves, (5) mixer, (6) digital video camera (or pyrometer in the case of Pt foil) (7) optical window, (8) pressure transducer, (9) ADC–computer based data acquisition system, (10) digital voltmeter, and (11) measurement bridge, Pt wire is a bridge arm.



Figure S2 Registration of the initiation of ignition of 40% H₂ + air with Pt foil with a two-beam color pyrometer indicating temperature values in °C. An ignition center on the foil is shown with a white circle in the frames 25 , 40. $P = 1$ atm. $T_0 = 300$ °C.