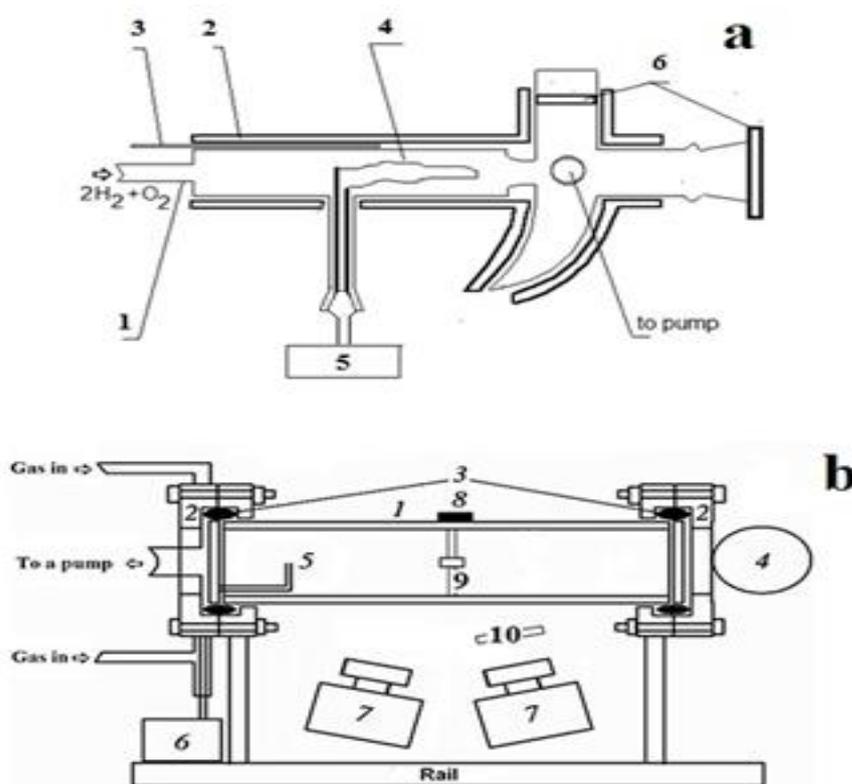


## Catalytic activity of Pt and Pd in gaseous reactions of H<sub>2</sub> and CH<sub>4</sub> oxidation at low pressures

Nikolai M. Rubtsov, Victor I. Chernysh, Georgii I. Tsvetkov, Kirill Ya. Troshin and Alexander P. Kalinin



**Figure S1** (a) Experimental setup for the study of the dark reaction under static conditions, where (1) quartz reactor of 4 cm in diameter and 30 cm long heated up in the electric furnace, (2) heater, (3) thermocouple, (4) Pd wire, (5) vacuum gauge VDG-1, and (6) optical window are shown. (b) Experimental setup for the study of initiated combustion, where (1) quartz cylindrical reactor, (2) stainless steel gateway, (3) silicone laying, (4) stainless steel shutter, (5) spark electrodes, (6) power supply, (7) movie Casio Exilim F1 Pro cameras, (8) sensitive microphone 'Ritmix', (9) Pt/Pd cylinder of 3 cm in length inserted into a planar obstacle 14 cm in diameter, and (10) interference filter (430 nm) are shown.