

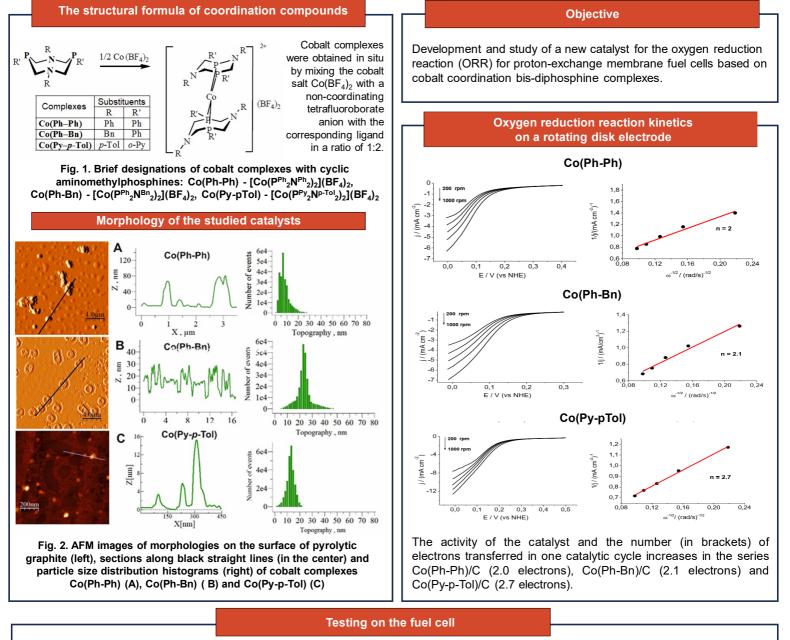
Cathode Catalysts on Cobalt Coordination Bis-Diphosphine Complexes



2023, 3-7 July

<u>Nizameeva G.R.^{1,2},</u> Nizameev I.R.^{1,2}, Kadirov D.M.², Strel'nik I.D.¹, Kadirov M.K.^{1,2}, Budnikova Yu.H.¹, Karasik A.A.¹, Sinyashin O.G.¹

¹ Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center of RAS, Kazan, Russia; ² Kazan National Research Technological University, Kazan, Russia;



Increase the number of electrons transferred in one catalytic cycle also correlates with the increase in the maximum power density observed in the diagnostic characteristics of proton-exchange membrane fuel cell (PEMFC) with cathodes based on Co (Ph-Ph) (5.69 mW), Co(Ph-Bn) (9.01 mW) and Co(Py - p-Tol) (10.17 mW) on carbon black (Vulcan XC-72) and Pt anodes on carbon black (Fig. 3).

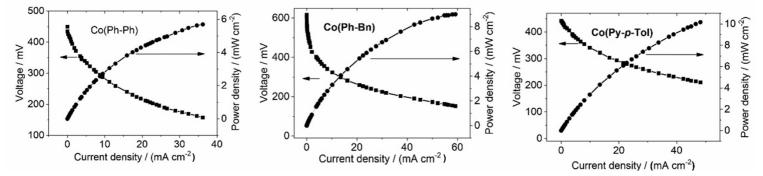


Fig. 3. Diagnostic curves of PEMFC with cathodes based on Co (Ph-Ph) (A), Co(Ph-Bn) (B) and Co(Py - p-Tol) (C) on carbon black (Vulcan XC-72) and anodes on Pt on carbon black