

**Список основных публикаций официального оппонента по теме
диссертации за последние 5 лет**

1. Novikova K., Kuriganova A., Leontyev I., Gerasimova E., Maslova O., Rakhmatullin A., Smirnova N., Dobrovolsky Yu. Influence of Carbon Support on Catalytic Layer Performance of Proton Exchange Membrane Fuel Cells // *Electrocatalysis* – 2017. – P. 1–9
2. Леонтьев И.Н.; Кульбаков А.А., Алликс М., Рахматуллин А., Куриганова А.Б., Маслова О.А., Смирнова Н.В. Thermal expansion coefficient of carbon-supported Pt nanoparticles: In-situ X-ray diffraction study // *Physica status solidi (B): Basic solid state physics* – 2017. – V. 254. – P. 1–4.
3. Куриганова А.Б. Леонтьев И.Н., Александрин А.С., Маслова О.А., Рахматуллин А., Смирнова Н.В. Electrochemically synthesized Pt/TiO₂-C catalysts for direct methanol fuel cell applications // *Mendeleev Communications* – 2017. – V. 27, Is. 1. – P. 67–69.
4. Kuriganova A.B., Leontyeva D.V., Ivanov S., Bund A., Smirnova N.V. Electrochemical dispersion technique for preparation of hybrid MOx-C supports and Pt/MOx-C electrocatalysts for low-temperature fuel cells // *J Appl Electrochem.* 2016. – V. 46. – P. 1245–1260.
5. Kuriganova A.B., Vlaic C.A., Ivanov S., Leontyeva, D.V., Bund A., Smirnova N.V. Electrochemical dispersion method for the synthesis of SnO₂ as anode material for lithium ion batteries // *J Appl Electrochem.* 2016. – V. 46. – P. 527–538.
6. Герасимова Е. В., Куриганова А. Б., Новикова К. С., Смирнова Н. В. О роли морфологии углеродного носителя в формировании каталитического слоя твердополимерного топливного элемента // *Электрохимия*. 2013. – Т. 50. – № 9. – С. 999–1003.
7. Куриганова А.Б., Смирнова Н.В. Pt/SnOx-C composite material for electrocatalysis // *Mendeleev Communications*. – 2014. – V. 24. – P. 351–352.
8. Smirnova, N.V., Kuriganova, A.B., Leont'Eva, D.V., Leont'Ev, I.N., Mikheikin, A.S. Structural and electrocatalytic properties of Pt/C and Pt-Ni/C catalysts prepared by electrochemical dispersion // *Kinetics and Catalysis*. – 2013. – V. 54. – P. 265–272.
9. I. N. Leontyev, A. B. Kuriganova, N. G. Leontyev, L. Hennet, A. Rakhmatullin, N. V. Smirnova, V. Dmitriev Size dependence of the lattice parameters of carbon supported platinum nanoparticles: X-ray diffraction analysis and theoretical considerations // *RSC Advances*. – 2014. – V. 4. – P. 35959–35965.
10. Mikheykin A. S., Dmitriev, V. P., Chagovets, S. V., Kuriganova, A. B., Smirnova, N. V., Leontyev, I. N.
The compressibility of nanocrystalline Pt // *Applied Physics Letters*. – 2012. – V. 101. – P. 2035–2039.
11. Leontyev I., Kuriganova A., Kudryavtsev Y., Dkhil B., Smirnova N. New life of a forgotten method: Electrochemical route toward highly efficient Pt/C catalysts for low-temperature fuel cells // *Applied Catalysis A: General*. – 2012. – V. 431-432. – P. 120– 125