

Сведения о ведущей организации:

полное наименование и сокращенное наименование

Федеральное государственное бюджетное учреждение науки Институт проблем химической физики Российской академии наук (ИПХФ РАН)

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список основных публикаций работников ведущей организации по теме диссертации за последние 5 лет (не более 15 публикаций)

1. Ukshe, A., Glukhov, A., Dobrovolsky, Y., Percolation model for conductivity of composites with segregation of small conductive particles on the grain boundaries // Journal of Materials Science – 2020.- V. 55- P. 6581-6587.
2. Tarasov A., Hu Z-Yi, Meledina M., Trusov G., Goodilin E., Van Tendeloo G., Dobrovolsky Yu., One-Step Microheterogeneous Formation of Rutile@Anatase Core–Shell Nanostructured Microspheres Discovered by Precise Phase Mapping // J. Phys. Chem. C - 2017. - V.121. - P. 4443–4450.
3. Kabachkov, E.N., Kurkin, E.N., Vershinin, N.N., Balikhin, I.L., Berestenko, V.I., Shul'ga, Y.M. Surface State of Catalysts of CO Oxidation, Obtained by Depositing Platinum on Powder of Plasma-Chemical Titanium Nitride // Russian Journal of Physical Chemistry A. – 2020. – V. 94.- P. 538-543.
4. Savchenko, V.I., Nikitin, A.V., Ozerskii, A.V., Zimin, Y.S., Sedov I.V., Arutyunov V.S., Effect of Hydrogen, Carbon Monoxide, Synthesis Gas, and Steam Additives on the Characteristics of Matrix Conversion of Rich Methane–Oxygen Mixtures. // Pet. Chem. – 2020. - V. 60. – P. 818–826.
5. 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. 2018. – V.9. - P. 22–30.
6. Mugtasimova, K. R., Melnikov, A. P., Galitskaya, E. A., Kashin, A. M., Dobrovolskiy, Y. A., Don, G. M., Likhomanov, V.S., Sivak, A.V. Sinitsyn, V. V., Fabrication of Aquivion-type membranes and optimization of their elastic and transport characteristics.// Ionics. –2018. –V.24. –P. 3897-3903.
7. Kuznetsov, D. A., Konev, D. V., Sokolov, S. A., & Fedyanin, I. V., Cobalt Oxide Materials for Oxygen Evolution Catalysis via Single Source Precursor Chemistry // Chemistry–A European Journal. –2018–V.24. – P.13890-13896.
8. Martsinkevich, E. M., Bruk, L. G., Dashko, L. V., Afaunov, A. A., Flid, V. R., & Sedov, I. V., Catalytic Reactions of Homo-and Cross-Condensation of Ethanal and Propanal // Petroleum Chemistry. –2018. –V.58. –P.1032-1035.

9. Didenko, L. P., Sementsova, L. A., Chizhov, P. E., & Dorofeeva, T. V.. Steam Reforming of Methane and Its Mixtures with Propane in a Membrane Reactor with Industrial Nickel Catalyst and Palladium–Ruthenium Foil // *Petroleum Chemistry*. –2019. –V.59. – P. 394-404.
10. Didenko, L. P., Dorofeeva, T. V., Sementsova, L. A., Chizhov, P. E., Knerel'man, E. I., & Davydova, G. I., The Dehydrogenation of Propane on Platinum–Tin Glass-Fiber Woven Catalysts // *Kinetics and Catalysis*. –2018. –V.59. – P. 472-480.
11. Didenko, L. P., Babak, V. N., Sementsova, L. A., Chizhov, P. E., Dorofeeva, T. V. Effect of Pd–Ru alloy membrane thickness on H₂ flux from steam reforming products // *Petroleum Chemistry*. –2017. –V. 57. – P. 935-946.
12. Didenko, L. P., Sementsova, L. A., Chizhov, P. E., Babak, V. N., Savchenko, V. I., Separation performance of foils from Pd–In (6%)–Ru (0.5%), Pd–Ru (6%), and Pd–Ru (10%) alloys and influence of CO₂, CH₄, and water vapor on the H₂ flow rate through the test membranes // *Russian Chemical Bulletin*. –2016. –V. 65. –P. 1997-2003.