

## Сведения о научном руководителе диссертации

### «Деактивация цеолитных катализаторов структурного типа MFI в ходе олигомеризации бутиленов»

(соискатель – Ефимов Андрей Владимирович)

**Научный руководитель:** Попов Андрей Геннадиевич

**Учёная степень:** кандидат химических наук

**Учёное звание:** без звания

**Должность:** ведущий научный сотрудник

**Место работы:** МГУ имени М.В. Ломоносова, химический факультет, кафедра физической химии

**Адрес места работы:** 119991, Москва, Ленинские горы, д. 1, стр. 3

**Тел.:** +7 (495) 939-20-54

Список основных научных публикаций по специальности **1.4.14 – Кинетика и катализ** за 5 лет:

1. **Попов А.Г.**, Nikiforov A.I., Sushkevich V.L., Tyablikov I.A., Ivanova I.I. Using the  $^{33}\text{S}$  nuclide for determining the particle size of the molybdenum disulfide phase supported on mesoporous silica // *Petroleum Chemistry*. — 2019. — Vol. 59, no. 7. — P. 756–760.
2. **Попов А.Г.**, Efimov A.V., Ivanova I.I. Influence of localization of acid sites on deactivation of zeolite MFI in oligomerization process of light alkenes // *Petroleum Chemistry*. — 2019. — Vol. 59, no. 7. — P. 691–694.
3. Boretskaya A., Il'yasov I., Lamberov A., **Попов А.** Identification of amorphous and crystalline phases in alumina entity and their contribution to the properties of the palladium catalyst // *Applied Surface Science*. — 2019. — Vol. 496. — P. 143635.
4. **Попов А.Г.**, Efimov A.V., Kleimenov A.V., Kuznetsov S.E., Ivanova I.I. Determination of the service life of zeolite oligomerization catalysts by accelerated deactivation testing // *Petroleum Chemistry*. — 2019. — Vol. 59, no. 8. — P. 903–909.
5. Boretskaya A., Il'yasov I., Egorova S., **Попов А.**, Lamberov A. Modification of a phase-inhomogeneous alumina support of a palladium catalyst. Part I: effect of the amorphous phase on the textural and acidic characteristics of alumina and methods for controlling its phase homogeneity // *Materials Today Chemistry*. — 2020. — Vol. 18. — P. 100371.
6. Ponomareva O.A., Maltseva A.A., **Попов А.Г.**, Dobryakova I.V., Kasyanov I.A., Ivanova I.I. Acetone conversion to isobutylene over magnesium-containing micro-mesoporous MOR zeolites // *Petroleum Chemistry*. — 2020. — Vol. 60, no. 4. — P. 516–524.
7. Abmetko I.V., Chernysheva M.G., Kulikova N.A., Konstantinov A.I., **Попов А.Г.**, Badun G.A., Perminova I.V. Tritium labelling to study humic substance-nanodiamond composites // *Environmental Research*. — 2021. — Vol. 193. — P. 110396.
8. Kulikova N.A., Chernysheva M.G., Badun G.A., Filippova O.I., Kholodov V.A., Volikov A.B., **Попов А.Г.** Retention of detonation nanodiamonds by soil: usage of tritium labeled nanoparticles and a key role for water-extractable Fe and Si // *Environmental Science-Nano*. — 2021. — Vol. 8. — P. 3001–3014.

9. Boretskaya A., Il'yasov I., **Popov A.**, Lamberov A. Modification of a phase-inhomogeneous alumina support of a palladium catalyst. Part II: the effect of palladium dispersion on the formation of hydride forms, electronic state, and catalytic performance in the reaction of partial hydrogenation of unsaturat // *Materials Today Chemistry*. — 2021. — Vol. 19. — P. 100387.

10. Gorbunov V.S., Bryzhin A.A., **Popov A.G.**, Tarkhanova I.G. Immobilized acid catalysts in the oxidation of sulfur-containing compounds with hydrogen peroxide // *Petroleum Chemistry*. — 2021. — Vol. 61, no. 12. — P. 1260–1269.

11. Shkuropatov A.V., **Popov A.G.**, Ivanova I.I. Alkylation of benzene with propylene on hierarchical MWW zeolites prepared by recrystallization // *Petroleum Chemistry*. — 2021. — Vol. 61, no. 8. — P. 908–915.

12. Kasyanov I.A., Efimov A.V., **Popov A.G.**, Grachev A.L., Dobryakova I.V. Nanocrystalline materials of MFI structure: Synthesis in a fluorinated surfactant medium and acidity characterization // *Petroleum Chemistry*. — 2022. — Vol. 62, no. 8. — P. 835–842.

13. Vorobkalo V.A., Bachurina D.O., **Popov A.G.**, Efimov A.V., Ivanova I.I. Influence of the crystal size on the catalytic properties of MEL and MFI zeolites in *n*-hexadecane dewaxing // *Petroleum Chemistry*. — 2022. — Vol. 62, no. 8. — P. 879–885.

14. Ponomareva O.A., Shaposhnik P.A., Nazarova V.I., Zasukhin D.S., **Popov A.G.**, Efimov A.V., Ivanova I.I. Effects of ion exchange degree on the physicochemical and catalytic properties of CsNaY // *Petroleum Chemistry*. — 2022. — Vol. 62, no. 3. — P. 301–309.

15. Ponomareva O.A., Rodionova L.I., Shaposhnik P.A., Nazarova V.I., Zasukhin D.S., Dobryakova I.V., **Popov A.G.**, Ivanova I.I. Alkylation of aniline with methanol over CsNaY zeolites with different crystal sizes // *Petroleum Chemistry*. — 2022. — Vol. 62, no. 8. — P. 924-932.

Учёный секретарь диссертационного совета МГУ.014.3(МГУ.02.04)  
к.х.н., доцент Шилина Марина Ильинична

