

## СВЕДЕНИЯ

об официальном оппоненте по диссертации Терещенко Константина  
Алексеевича «Физико-химические закономерности формирования  
и функционирования полицентровых металлокомплексных  
каталитических  
систем на примере процессов полимеризации»

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4. Место основной работы, должность: г. Новосибирск, Федеральное государственное бюджетное учреждение науки «Федеральный исследовательский центр Институт катализа им. Г.К. Борескова Сибирского отделения Российской академии наук», должность – главный научный сотрудник лаборатории каталитической полимеризации

5. Ученая степень: доктор химических наук по специальности 02.00.15 – «Химическая кинетика и катализ».

6. Ученое звание: профессор по специальности 02.00.04 «Физическая химия».

7. Основные работы, опубликованные в рецензируемых научных журналах за последние 5 лет.

1. Zdanovich A.A., Semikolenova N.V., Kuznetsov V.L., Matsko M.A., Moseenkov S.I., Zakharov V.A. Formation of Ziegler-type Catalytic Systems on the Surface of Multi-Walled Carbon Nanotubes for the Production of Composite Materials by in situ Polymerization. *Journal of Applied Polymer Science*. 2019.48212:1-9.

2. . Huang C., Zakharov V.A., Semikolenova N.V., Matsko M.A., Mahmood Q., Talsi E.P., Sun W-H. Comparisons Between Homogeneous and Immobilized 1-(2,6-dibenzhydryl-4-nitrophenylimino)-2-mesityliminoacenaphthylnickel Bromide as a Precatalyst in Ethylene Polymerization. *Journal of Catalysis*. 2019. V.372. P.103-108.

3. Sukulova V.V., Barabanov A.A., Matsko M.A., Zakharov V.A., Mikenas T.B. Kinetic Features of Ethylene Copolymerization with 1-Hexene over Titanium-Magnesium Ziegler-Natta Catalysts: Effect of Comonomer on the Number of Active Centers and the Propagation Rate Constant. *Journal of Catalysis*. 2019. V.369. P.276-282.

4. Huang C., Zakharov V.A., Semikolenova N.V., Matsko M.A., Solan G.A., Sun W-H. A Comparative Kinetic Study of Ethylene Polymerization Mediated by Iron, Cobalt and Chromium Catalysts Bearing the Same N,N,N-bis(imino)trihydroquinoline. *Journal of Catalysis*. 2019. V.369. P.1-9.
5. Echevskaya L., Zakharov V., Matsko M., Nikolaeva M. 1-Hexene Polymerization over Supported Titanium-Magnesium Catalyst: The Effect of Composition of the Catalytic System and Polymerization Conditions on Temperature Dependence of the Polymerization Rate. *Macromolecular Reaction Engineering*. 2018. V. 12. N 1. 1700045.
6. Sukulova V.V., Barabanov A.A., Mikenas T.B., Matsko M.A., Zakharov V.A. Effect of Hydrogen on the Number of Active Centers and the Propagation Rate Constant at Ethylene Polymerization over Titanium-Magnesium Ziegler-Natta Catalysts. *Molecular Catalysis*. 2018. V. 445. P. 299-306.
7. Nikolaeva M., Matsko M., Zakharov V. Comparative Study of Distribution of Active Sites According to Their Stereospecificity in Propylene Polymerization over the Traditional  $TiCl_3$  and Supported Titanium-Magnesium Catalysts with Different Composition. *Macromolecular Chemistry and Physics*. 2018. V. 219. N 5. 1700488.
8. Echevskaya L., Zakharov V., Matsko M., Nikolaeva M. Regulation of Molecular Weight Characteristics and Microtacticity of Polyhexene Produced over Highly Active Supported Titanium-Magnesium Catalysts. *Macromolecular Reaction Engineering*. 2018. 1700064.
9. Nikolaeva M., Matsko M., Zakharov V. Propylene Polymerization over Supported Ziegler-Natta Catalysts: Effect of Internal and External Donors on Distribution of Active Sites According to Stereospecificity. *Journal of Applied Polymer Science*. 2018. V. 135. N 23. 46291.
10. Semikolenova N.V., Sun W-H., Soshnikov I.E., Matsko M.A., Kolesova O.V., Zakharov V.A., Bryliakov K.P. Origin of "Multisite-like" Ethylene Polymerization Behavior of the Single-Site Nonsymmetrical Bis(imino)pyridine Iron(II) Complex in the Presence of Modified Methylaluminoxane. *ACS Catalysis*. 2017. V. 7. N 4. P. 2868-2877.
11. Mikenas T.B., Koshevoy E.I., Zakharov V.A. Effect of the Structure of Titanium-Magnesium Catalysts on the Morphology of Polyethylene Produced. *Journal of Polymer Science, Part A: Polymer Chemistry*. 2017. V. 55. N 14. P. 2298-2308.
12. Chumachenko N.N., Zakharov V.A., Sergeev S.A., Cherepanova S.V. Effect of the Synthesis Conditions of Titanium-Magnesium Catalysts on the Composition, Structure and Performance in Propylene Polymerization. *Polyolefins Journal*. 2017. V. 4. N 1. P. 111-122.
13. Koshevoy E.I., Mikenas T.B., Zakharov V.A., Shubin A.A., Barabanov A.A. Electron Paramagnetic Resonance Study of the Interaction of Surface Titanium Species with  $AlR_3$  Cocatalyst in Supported Ziegler-Natta Catalysts with a Low Titanium Content

The Journal of Physical Chemistry C. 2016. V. 120. N 2. P. 1121-1129.

14. Mikenas T.B., Koshevoy E.I., Cherepanova S.V., Zakharov V.A. Study of the Composition and Morphology of New Modifications of Titanium-Magnesium Catalysts with Improved Properties in Ethylene Polymerization. Journal of Polymer Science, Part A: Polymer Chemistry. 2016. V. 54. N 16. P. 2545-2558.

15. Nikolaeva M., Mikenas T., Matsko M., Zakharov V. Effect of  $AlEt_3$  and an External Donor on the Distribution of Active Sites According to Their Stereospecificity in Propylene Polymerization over  $TiCl_4/MgCl_2$  Catalysts with Different Titanium Content. Macromolecular Chemistry and Physics. 2016. V. 217. N 12. P. 1384-1395.

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