

Приложение

**Сведения о ведущей организации**

**по диссертации Художиткова Александра Эдуардовича**

**«Исследование молекулярной подвижности углеводородов в микропористых металл-органических каркасах методом  $^2\text{H}$  ЯМР спектроскопии» по специальности 01.04.17 – «химическая физика, горение и взрыв, физика экстремальных состояний вещества» на соискание ученой степени кандидата физико-математических наук.**

1.	Название организации полное и сокращённое	Федеральное государственное бюджетное учреждение науки Институт неорганической химии им. А.В. Николаева Сибирского отделения Российской академии наук (ИНХ СО РАН)
2.	Структурное подразделение	лаборатория химии полиядерных металлоорганических соединений
3.	Адрес	Российская Федерация, 630090, г. Новосибирск, проспект Академика Лаврентьева, д. 3
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Список основных публикаций работников организации по теме рецензируемой диссертации за последние 5 лет:

- [1] Y. Qu, S. P. Babailov, Azo-Linked High-Nitrogen Energetic Materials. *J. Mater. Chem. A.*, 2017, 6, 1915–1940.
- [2] S.P. Babailov, Lanthanides as NMR/MRI Temperature Sensors and Probes of Moderately Fast Molecular Dynamics in Aqueous Medium: A Dependence of Activation Energy of Racemization in Complexes of Diethylenetriaminepentaacetat on Lanthanide Ion, *Sensors & Actuators: B. Chemical*, 2017, 251, 108–111.
- [3] Babailov S.P., Peresypkina E.V., Journaux Y., Vostrikova K.E., Nickel(II) complex of a biradical: Structure, magnetic properties, high NMR temperature sensitivity and moderately fast molecular dynamics.// *Sensors & Actuators: B. Chemical*, 2017, B 239, 405–412.

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- [7] **S.P. Babailov**, E.N. Zapolotsky, E.S. Fomin, Ya. Qu, Molecular Structure and Paramagnetic Properties of Bisdiisobutylidithiophosphinate Complexes of Europium(III), Ytterbium(III) and Lutetium(III) with 2, 2-bipyridyl Using NMR. // *Polyhedron*, 2017, 134, 316-318
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- [9] **S.P. Babailov**, P.A. Stabnikov, I.V. Korolkov, N.V. Pervukhina, O.S. Koshcheeva, I.P. Chuikov, Structure and paramagnetic properties of tris-pivaloyltrifluoracetone thulium(III) complexes with 18-crown-6 by X-ray analysis and NMR // *Polyhedron*, 2016, 105, pp. 178-185.
- [10] **S.P. Babailov**. Holmium Complex with DOTA as NMR Super-Sensitive Temperature Sensor Reagent for Spectroscopic and Tomography Monitoring of Aqueous Systems. *Macroheterocycles* // 2016, 9, 277-281
- [11] **S.P. Babailov**, E.N. Zapolotsky, A new approach to determining the structure of lanthanide complexes in solution according to the Curie-spin contribution to the paramagnetic spin-spin relaxation rate enhancements: Ho-DOTA.// *Polyhedron*, 2020, 182, 114487
- [12] **S.P. Babailov**, E.N. Zapolotsky, A.I. Kruppa, P.A. Stabnikov, I.A. Godovikov, E.V. Bocharov, E.S. Fomin, Two types of conformational dynamics and thermo-sensor properties of praseodymium-DOTA by <sup>1</sup>H/<sup>13</sup>C NMR, *Inorganica Chimica Acta*, 486 (2018), 340-344 .
- [13] O. Yu. Selyutina, P. A. Kononova , **S. P. Babailov**, Complex of praseodymium with lipid as NMR temperature sensor and probe of liposome states, *New J. Chem.*, 2020, DOI: 10.1039/D0NJ03707A.

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