

Список наиболее важных публикаций с 2018 по 2022 год

1. I. V. Basalov, A. A. Kissel, A. A. Trifonov et al. «2-Imino-2,3-dihydrobenzoxazole—a useful platform for designing rare- and alkaline earth complexes with variable di- and trianionic O,N,N, ligands» *Dalton Trans.*, **2022**, 51, 1995-2004
2. V. A. Kirkina, A. A. Kissel, A. N. Selikhov et al. «Amine-boranes reactions promoted by lanthanide(II) ions» *Chem. Commun.*, **2022**, 58, 859-862
3. V. B. Kharitonov, D. V. Muratov, D. A. Loginov «Cyclopentadienyl complexes of group 9 metals in the total synthesis of natural products» *Coord. Chem. Rev.* **2022**, 471, 214744
4. M. A. Arsenov, Y. V. Fedorov, D. V. Muratov et al. «Synthesis of isocoumarins and PAHs with electron-withdrawing substituents: impact of the substituent nature on the photophysical behavior» *Dyes and Pigments*. **2022**, 206, 110653
5. G. B. Shul'pin, L. S. Shul'pina «Oxidation of Organic Compounds with Peroxides Catalyzed by Polynuclear Metal Compounds, A Review» *Catalysts*, **2021**, 11, 186-223
6. Shvydkiy N., Petrushina T. N., Perekalin D. S. «Cyclobutadiene rhodium complexes as catalysts for the synthesis of amides from electron-rich arenes, tosyl azide and co» *ChemCatChem*, **2021**, 13, 2873-2878
7. K. Biriukov, M. M. Vinogradov, O. I. Afanasyev et al. «Carbon monoxide-driven osmium catalyzed reductive amination harvesting WGS power» *Catal. Sci. Technol.*, **2021**, 11, 4922-4930
8. V. B. Kharitonov, S. A. Runikhina, Y. V. Nelyubina et al. «Easy access to versatile catalytic systems for C-H activation and reductive amination based on tetrahydrofluorenyl rhodium(III) complexes» *Chem. Eur. J.*, **2021**, 27, 10903-10912
9. A. N. Selikhov, E. N. Boronin, A. V. Cherkasov et al. «Tris(benzhydryl) and cationic bis(benzhydryl) Ln(III) complexes: Exceptional thermostability and catalytic activity in olefin hydroarylation and hydrobenzylation with substituted pyridines» *Adv. Synth. Catal.* **2020**, 362, 5432-5443
10. A. P. Molotkov, M. A. Arsenov, D. A. Kapustin et al. «Effect of Cp-ligand methylation on Rh(III)-catalyzed annulations of aromatic carboxylic acids with alkynes: Synthesis of isocoumarins and PAHs for organic light-emitting devices» *ChemPlusChem*, **2020**, 85, 334-345
11. M. M. Vinogradov, O. I. Afanasyev, Y. V. Nelyubina et al. «Osmium catalysis in the reductive amination using carbon monoxide as a reducing agent» *Molecular catalysis*, **2020**, 498, 111260
12. N. V. Shvydkiy, E. A. Dlin, K. V. Ivanov et al. «Synthesis and reactivity of cyclobutadiene nickel bromide» *Dalton Trans.*, **2020**, 49, 6801-6806.
13. G. A. Gurina, A. A. Kissel, D. M. Lyubov et al. «Bis(alkyl) scandium and yttrium complexes coordinated by an amidopyridinate ligand: synthesis, characterization and catalytic performance in isoprene polymerization, hydroelementation and carbon dioxide hydrosilylation» *Dalton Trans.*, **2020**, 49, 638-650
14. V. B. Kharitonov, E. Podyacheva, Y. V. Nelyubina et al. «Fluorene complexes of group 9 metals: Fluorene effect and application for reductive amination» *Organometallics*, **2019**, 38, 16, 3151–3158
15. D. A. Loginov, L. S. Shul'pina, D. V. Muratov, G. B. Shul'pin «Cyclopentadienyl cobalt(III) complexes: synthetic and catalytic chemistry» *Coord. Chem. Rev.*, **2019**, 387, 1–31.

16. N. V. Shvydkiy, O. Vyhivskiy, Y. Nelyubina, D. Perekalin «Design of manganese phenol pi-complexes as Shvo-type catalysts for transfer hydrogenation of ketones» *ChemCatChem*, **2019**, 11, 1602-1605
17. V.B. Kharitonov, M. V. Makarova, M.A. Arsenov, et al. «Indenyl Rhodium Complexes with Arene Ligands: Synthesis and Application for Reductive Amination» *Organometallics*, **2018**, 37, 2553–2562
18. E. A. Trifonova, N. M. Ankudinov, D. S. Perekalin «A Planar-Chiral Rhodium(III) Catalyst with a Sterically Demanding Cyclopentadienyl Ligand and Its Application in the Enantioselective Synthesis of Dihydroisoquinolones» *Angew. Chem. Int. Ed.* **2018**, 57, 7714-7718
19. A. A. Kissel, A. A. Trifonov «N-Containing Ligands as Universal Coordination Environments for Rare-Earth Alkyl and Bis(alkyl) Complexes» *INEOS OPEN*, **2018**, 1, 1-38
20. D. V. Vorobyeva, M. M. Vinogradov, Y. V. Nelyubina, et al. «Rhodium(III)-catalyzed CF₃-Carbenoid C-H Functionalization of 6-Arylpurines» *Org. Biomol. Chem.*, **2018**, 16, 2966-2974
21. D. A. Loginov, V. E. Konoplev «Oxidative coupling of benzoic acids with alkynes: catalyst design and selectivity» *JOMC*, **2018**, 867, 14–24.