

Избранные публикации официального оппонента д.х.н. Кеткова Сергея Юлиевича

по тематике защищаемой диссертации

1. S.Y. Ketkov, E.A. Rychagova, S.Y. Tzeng, W.B. Tzeng. Td Dft Insights into Unusual Properties of Excited Sandwich Complexes: Structural Transformations and Vibronic Interactions in Rydberg-State Bis(Eta(6)-Benzene)Chromium. *Phys Chem Chem Phys*, **2018**, *20*, 23988-23997.
2. D.M. Lyubov, A.V. Cherkasov, G.K. Fukin, K.A. Lyssenko, E.A. Rychagova, S.Y. Ketkov, A.A. Trifonov. Rare-Earth Metal-Mediated Phcu N Insertion into N, N-Bis(Trimethylsilyl) Naphthalene-1,8-Diamido Dianion - a Synthetic Approach to Complexes Coordinated by Ansa-Bridged Amido-Amidinato Ligand. *Dalton T.*, **2018**, *47*, 438-451.
3. M. Olaru, M.F. Hesse, E. Rychagova, S. Ketkov, S. Mebs, J. Beckmann. The Weakly Coordinating Tris(Trichlorosilyl)Silyl Anion. *Angew Chem Int Edit*, **2017**, *56*, 6490-16494.
4. S.Y. Ketkov, S.Y. Tzeng, P.Y. Wu, G.V. Markin, W.B. Tzeng. Dft-Supported Threshold Ionization Study of Chromium Biphenyl Complexes: Unveiling the Mechanisms of Substituent Influence on Redox Properties of Sandwich Compounds. *Chem-Eur J*, **2017**, *23*, 13669-13675.
5. R. Sanyal, S. Ketkov, S. Purkait, F.A. Mautner, G. Zhigulin, D. Das. Nuclearity Dependent Solvent Contribution to the Catechol Oxidase Activity of Novel Copper(II) Complexes Derived from Mannich-Base Ligand Platforms: Synthesis, Crystal Structure and Mechanism. *New J Chem*. **2017**, *41*, 8586-8597.
6. K.V. Kremlev, M.A. Samsonov, G.S. Zabrodina, A.V. Arapova, P.A. Yunin, D.A. Tatarsky, P.E. Plyusnin, M.A. Katkova, S.Y. Ketkov. Copper(II)-cerium(III) 15-metallacrown-5 based on glycinehydroxamic acid as a new precursor for heterobimetallic composite materials on carbon nanotubes. *Polyhedron*, **2016**, *114*, 96-100.
7. S.Y. Ketkov, G.V. Markin, S.Y. Tzeng, W.B. Tzeng, Fine Substituent Effects in Sandwich Complexes: A Threshold Ionization Study of Monosubstituted Chromium Bisarene Compounds. *Chem.- Eur. J.*, **2016**, *22*, 4690-4694.
8. R. Kather, E. Rychagova, C.P. Sanz, S.E. Ashbrook, J.D. Woollins, L. Robben, E. Lork, S. Ketkov, J. Beckmann. Increasing the Bronsted acidity of Ph<sub>2</sub>PO<sub>2</sub>H by the Lewis acid B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>. Formation of an eight-membered boraphosphinate ring [Ph<sub>2</sub>POB(C<sub>6</sub>F<sub>5</sub>)<sub>2</sub>O]<sub>2</sub>. *Chem Commun (Camb)*, **2016**, *52*, 10992-10995.
9. T.G. Do, E. Hupf, A. Nordheider, E. Lork, A.M.Z. Slawin, S.G. Makarov, S.Y. Ketkov, S. Mebs, J.D. Woollins, J. Beckmann, Intramolecularly Group 15 Stabilized Aryltellurenyl Halides and Triflates. *Organometallics*, **2015**, *34*, 5341-5360.