

**Избранные публикации официального оппонента**  
**доктора химических наук, профессора РАН**  
**БРЫЛЯКОВА Константина Петровича**  
**по тематике защищаемой диссертации**

1. **Bryliakov K.P.** Bioinspired non-heme Mn catalysts for regio- and stereoselective oxyfunctionalizations with H<sub>2</sub>O<sub>2</sub> / R.V. Ottenbacher, A.A. Bryliakova, V.I. Kurganskii, P.V. Prikhodchenko, A.G. Medvedev, **K.P. Bryliakov** // Chemistry - A European Journal. 2023. Vol. 29, № 66. P. e202302772.
2. **Bryliakov K.P.** Why non-heme Mn complexes of amino 2-quinolylmethyl ligands are inactive in oxidation catalysis? An insight from X-ray data / R.V. Ottenbacher, A.G. Medvedev, A.A. Nefedov, **K.P. Bryliakov** // Inorganic Chemistry Communications. 2023. Vol. 156. P. 111282.
3. **Bryliakov K.P.** New Ni(II)-Ni(II) dinuclear complex, a resting state of the ( $\alpha$ -diimine)NiBr<sub>2</sub>/AlMe<sub>3</sub> catalyst system for ethylene polymerization / I.E. Soshnikov, N.V. Semikolenova, A.A. Bryliakova, A.A. Antonov, **K.P. Bryliakov**, E.P. Talsi // Catalysts. 2023. Vol. 13, №2. P. 333.
4. **Bryliakov K.P.** Direct regio- and stereoselective mono- and polyoxyfunctionalization of estrone derivatives at C(sp<sup>3</sup>)-H bonds / R.V. Ottenbacher, D.G. Samsonenko, A.A. Nefedov, **K.P. Bryliakov** // Journal of Catalysis. 2022. Vol. 415. P. 12-18.
5. **Bryliakov K.P.** Reactivity vs. selectivity of biomimetic catalyst systems of the Fe(PDP) family through the nature and spin state of the active iron-oxygen species / A.M. Zima, O.Y. Lyakin, A.A. Bryliakova, D.E. Babushkin, **K.P. Bryliakov**, E.P. Talsi // Chemical Record. 2022. Vol. 22, №5. P. e202100334.
6. **Bryliakov K.P.** Palladium-aminopyridine catalyzed C–H oxygenation: probing the nature of metal based oxidant / D.P. Lubov, A.A. Bryliakova, D.G. Samsonenko, D.G. Sheven, E.P. Talsi, **K.P. Bryliakov** // ChemCatChem. 2021. Vol. 13, № 24. P. 5109-5120.
7. **Bryliakov K.P.** Aerobic asymmetric oxygenation catalysis: a well forgottenis... future? / **K.P. Bryliakov** // Mendeleev Communications. 2021. Vol. 31, № 1. P. 8-13.

8. **Bryliakov K.P.** Highly enantioselective undirected catalytic hydroxylation of benzylic CH<sub>2</sub> groups with H<sub>2</sub>O<sub>2</sub> / R.V. Ottenbacher, E.P. Talsi, **K.P. Bryliakov** // Journal of Catalysis. 2020. Vol. 390. P. 170-177.
9. **Bryliakov K.P.** Enantioselective benzylic hydroxylation of arylalkanes with H<sub>2</sub>O<sub>2</sub> in fluorinated alcohols in the presence of chiral Mn aminopyridine complexes / R.V. Ottenbacher, E.P. Talsi, T.V. Rybalova, **K.P. Bryliakov** // ChemCatChem. 2018. Vol. 10, 22. P. 5323-5330.
10. **Bryliakov K.P.** Catalytic asymmetric oxygenations with the environmentally benign oxidants H<sub>2</sub>O<sub>2</sub> and O<sub>2</sub> / **K.P. Bryliakov** // Chem. Rev. 2017. Vol. 117, № 17. P. 11406–11459.