

### Избранные публикации

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1. Parshina E.K., Deriabin K.V., Kolesnikov I.E., Novikov A.S., Kocheva A.N., Golovenko E.A., Islamova R.M. Iridium(III)-incorporating self-healing polysiloxanes as materials for light-emitting oxygen sensors // *Macromolecular Rapid Communications*. 2024. V. 45(21). 2400450. DOI: 10.1002/marc.202400450.
2. Kocheva A.N., Deriabin K.V., Volkov A.I., Levin O.V., Islamova R.M. Cobaltocenium-containing polysiloxanes: catalytic synthesis, structure and properties // *ACS Applied Polymer Materials*. 2024. V. 6(19). P. 12112–12122. DOI: 10.1021/acsapm.4c02238.
3. Deriabin K.V., Kocheva A.N., Golovenko E.A., Kirichenko S.O., Islamova R.M. Anionic ring-opening polymerization of ferrocenylcyclsiloxanes: a comprehensive structural study // *Reactive and Functional Polymers*. 2024.106029. DOI: 10.1016/j.reactfunctpolym.2024.106029.
4. Deriabin K.V., Vereshchagin A.A., Kirichenko S.O., Rashevskii A.A., Levin O.V., Islamova R.M. Self-cross-linkable ferrocenyl-containing polysiloxanes as flexible electrochromic materials // *Materials Today Chemistry*. 2023. V. 29. 101399. DOI: 10.1016/j.mtchem.2023.101399.
5. Deriabin K.V., Golovenko E.A., Antonov N.S., Baykov S.V., Boyarskiy V.P., Islamova R.M. Platinum-macrocatalyst for heterogeneous Si–O dehydrocoupling // *Dalton Transactions*. 2023. V. 52. 5854–5858. DOI: 10.1039/D3DT00651D.
6. Filippova S.S., Deriabin K.V., Perevyazko I.Yu., Islamova R.M. Metal and peroxide-free silicone rubbers with antibacterial properties obtained at room temperature // *ACS Applied Polymer Materials*. 2023. V. 5(7). P. 5286–5296. DOI: 10.1021/acsapm.3c00697.
7. Deriabin K.V., Filippova S.S., Islamova R.M. Self-healing silicone materials: looking back and moving forward // *Biomimetics*. 2023. V. 8(3). P. 286. DOI: 10.3390/biomimetics8030286.
8. Rashevskii A.A., Deriabin K.V., Parshina E.K., Regina M. Islamova. Self-healing redox-active coatings based on ferrocenyl-containing polysiloxanes // *Coatings*. 2023. V. 13(7). P. 1282. DOI: 10.3390/coatings13071282.

9. Baeva M., Miroshnichenko A.S., Kenesbay R., Mitin D.M., Gets D.S., Krasnikov D.V., Nasibulin A.G., Makarov S., Mukhin I.S., Islamova R.M. Enhancing CsPbBr<sub>3</sub> PeLEC properties by PDMS/PMHS double-layer polymer encapsulation and high relative humidity stress-aging // *J. of Materials Chemistry C*. 2023.V. 11. P. 15261–15275. DOI: 10.1039/D3TC01370G.
10. Miroshnichenko A., Deriabin K.V., Dobrynin M.V., Baranov A., Neplokh V., Mitin D., Kolesnikov I.E., Parshina E.K., Mukhin I.S., Islamova R.M. Lanthanide(III)-incorporating polysiloxanes as materials for light-emitting devices // *ACS Applied Polymer Materials*. 2022. V. 4. P. 2683–2690. DOI: 10.1021/acsapm.2c00017.
11. Dobrynin M.V., Sokolova E.V., Kinzhalov M.A., Smirnov A.S., Starova G.L., Kukushkin V.Yu., Islamova R.M. Cyclometalated Platinum(II) Complexes Simultaneously Catalyze the Cross-linking of Polysiloxanes and Function as Luminophores with a Controllable Emission Spectrum in Formed Silicone Rubbers // *ACS Applied Polymer Materials*. 2021. V. 3(2). P. 857–866. DOI: 10.1021/acsapm.0c01190.
12. Dobrynin M.V., Kukushkin V.Yu., Islamova R.M. Cellulose-based Hybrid Glycosilicones via Grafted-to Metal-catalyzed Hydrosilylation: “When Opposites Unite” // *Carbohydrate Polymers*. 2020. V. 241. 116327. DOI: <https://doi.org/10.1016/j.carbpol.2020.116327>.
13. Deriabin K.V., Dobrynin M.V., Islamova R.M. A metal-free radical technique for cross-linking of polymethylhydrosiloxane or polymethylvinylsiloxane using AIBN // *Dalton Transactions*. 2020.V. 49. P.8855–8858. DOI: 10.1039/d0dt01061h.
14. Deriabin K.V., Lobanovskaya E.K., Kirichenko S.O., Barshutina M.N., Musienko P.E., Islamova R.M. Synthesis of ferrocenyl-containing silicone rubbers via platinum-catalyzed Si–H self-cross-linking // *Applied Organometallic Chem*. 2020. V. 34. e5300. DOI: 10.1002/aoc.5300.