

**Список публикаций сотрудников ФГБУН Новосибирский институт
органической химии им. Н.Н. Ворожцова СО РАН**

1. Koskin, I. P. Selectively fluorinated furan-phenylene co-oligomers pave the way to bright ambipolar light-emitting electronic devices / I.P. Koskin, Ch.S. Becker, A.A. Sonina, V.A. Trukhanov, N.A. Shumilov, A.D. Kuimov, Yu.S. Zhuravleva, Yu.O. Kiseleva, I.K. Shundrina, P.S. Sherin, D.Yu. Paraschuk, M.S. Kazantsev // *Advanced Functional Materials* – 2021 – V.31 – N 48 – №2104638.
2. Tretyakov, E. V. Platform for high-spin molecules: a verdazyl-nitronyl nitroxide triradical with quartet ground state / E.V. Tretyakov, P.V. Petunin, S. Zhivetyeva, D.E. Gorbunov, N.P. Gritsan, M.V. Fedin, D.V. Stass, R.I. Samoiloa, I.Yu. Bagryanskaya, I.K. Shundrina, A.S. Bogomyakov, M.S. Kazantsev, P.S. Postnikov M. E. Trusova, V.I. Ovcharenko // *Journal of the American Chemical Society* – 2021 – V. 143 – P. 8164-8176.
3. Schieman, O. Benchmark test and guidelines for DEER/PELDOR experiments on nitroxide-labeled biomolecules / O. Schieman, C.A. Heubach, D. Abdullin, K. Ackermann, M. Azarkh, E.G. Bagryanskaya, M. Drescher, B. Endeward, J.H. Freed, L. Galazzo, D. Goldfarb, T. Hett, L.E. Hofer, L.F. Ibanez, E.J. Hustedt, S. Kucher, I. Kuprov, J.E. Lovett, A. Meyer, Sh. Ruthstein, S. Saxena, S. Stoll, Ch.R. Timmel, M.D. Valentin, H.S. Mchaourab, T.F. Prisner, B.E. t Bode, E. Bordignon, M. Bennati, G. Jeschke // *Journal of the American Chemical Society* – 2021 – V. 143 – P. 17875-17890.
4. Kruchinina, M. P-15 Diagnostic potential of erythrocyte and serum fatty acids in spotting adenomatous polyps and identifying the early stages of colorectal cancer depending on tumor localization / M. Kruchinina, A. Gromov, V. Kruchinin, M. Shashkov, A. Sokolova, I. Yakovina, A. Shestov // *Annals of Oncology* – 2021 – V. 32 – № S3 – P. S101.
5. Kruchinina, M. V. Perturbation of fatty acids of erythrocyte membranes and blood serum in patients with colorectal cancer: new opportunities for diagnostics / M.V. Kruchinina, A.A. Gromov, Ya.I. Prudnikova, M.V. Shashkov, A.S. Sokolova, V.N. Kruchinin, I.N. Yakovina, N.A. Bannova // *Annals of Oncology* – 2019 – V. 30 – № S4 – P. 109.
6. Tretyakov, E. V. Ferromagnetically coupled $S = 1$ chains in crystals of verdazyl-nitronyl nitroxide diradicals / E.V. Tretyakov, S.I. Zhivetyeva, P.V. Petunin, D.E. Gorbunov, N.P. Gritsan, I.Yu. Bagryanskaya, A.S. Bogomyakov, P.S. Postnikov, M.S. Kazantsev, M.E. Trusova, I.K. Shundrina, E.V. Zaytseva, D.A. Parkhomenko, E.G. Bagryanskaya, V. Ovcharenko // *Angewandte Chemie International Edition* – 2020 – V. 59 – N 46 – P. 20704-20710.
7. Polyukhov, D. Precise measurement and controlled tuning of effective window sizes in zif-8 framework for efficient separation of xylenes / D. Polyukhov, A.S. Poryvaev, S.A. Gromilov, M.V. Fedin // *Nano Letters* – 2019 – V. 19 – N 9 – P. 6506-6510.

8. Froba, M. Blatter radical-grafted mesoporous silica as prospective nanoplatform for spin manipulation at ambient conditions / M. Froba, E. Gjuzi, F. Hoffmann, A.S. Poryvaev, M.V. Fedin, D.M. Polyukhov // *Angewandte Chemie International Edition* – 2021 – V.60 – P. 8683-8688.
9. Krumkacheva, O. A. Triplet fullerenes as prospective spin labels for nanoscale distance measurements by pulsed dipolar EPR / O.A. Krumkacheva, I.O. Timofeev, L.V. Politanskaya, Yu.F. Polienko, E.V. Tretyakov, O.Yu. Rogozhnikova, D.V. Trukhin, V.M. Tormyshev, A.S. Chubarov, E.G. Bagryanskaya, M.V. Fedin // *Angewandte Chemie International Edition* – 2019 – V. 58 – N 38 – P. 13271-13275.
10. Slota, M. Magnetic edge states and coherent manipulation of graphene nanoribbons / M. Slota, A. Keerthi, W.K. Myers, E. Tretyakov, M. Baumgarten, A. Ardavan, H. Sadeghi, C.J. Lambert, A. Narita, K. Müllen, L. Bogani // *Nature* – 2018 – V. 557 – N 7707 – P. 691-695.
11. Stoyanov, E. S. Features of protonation of the simplest weakly basic molecules, SO₂, CO, N₂O, CO₂, and others, by solid carborane superacids / E.S. Stoyanov, I.V. Stoyanova // *Angewandte Chemie International Edition* – 2018 – V. 57 – N 17 – P. 4516-4520.
12. Malygin, A. A. / Structural rearrangements in mRNA upon its binding to human 80S ribosomes revealed by EPR spectroscopy / A.A. Malygin, D.M. Graifer, M.I. Meschaninova, A.G. Venyaminova, I.O. Timofeev, A.A. Kuzhelev, O.A. Krumkacheva, M.V. Fedin, G.G. Karpova, E.G. Bagryanskaya // *Nucleic Acids Research* – 2018 – V. 46 – N 2 – P. 897-904.
13. Gruber, D. R. Oxidative damage to epigenetically methylated sites affects DNA stability, dynamics and enzymatic demethylation / D.R. Gruber, J.J. Toner, H.L. Miears, A.V. Shernyukov, A.S. Kiryutin, A.A. Lomzov, A.V. Endutkin, I.R. Grin, D.V. Petrova, M.S. Kupryushkin, A.V. Yurkovskaya, E.C. Johnson, M. Okon, E.G. Bagryanskaya, D.O. Zharkov, S.L. Smirnov // *Nucleic Acids Research* – 2018 – V.46 – N 20 – P. 10827-10839.
14. Joseph, B. Selective High-Resolution Detection of Membrane Protein–Ligand Interaction in Native Membranes using Trityl-Nitroxide PELDOR / B. Joseph, V.M. Tormyshev, O.Yu. Rogozhnikova, D. Akhmetzyanov, E.G. Bagryanskaya, T.F. Prisner // *Angewandte Chemie International Edition* – 2016 – V. 55 – N. 38 – P. 11538-11542.
15. Fedin, M. V. Electron paramagnetic resonance of switchable copper-nitroxide-based molecular magnets: An indispensable tool for intriguing systems / M.V. Fedin, S.L. Veber, E.G. Bagryanskaya, V.I. Ovcharenko // *Coordination Chemistry Reviews* – 2015 – V. 289–290 – P. 341-356.