

**Избранные публикации официального оппонента
Борщева Олега Валентиновича**

доктора химических наук, заведующего Лабораторией функциональных материалов для органической электроники и фотоники ФГБУН Институт синтетических полимерных материалов им. Н.С. Ениколопова Российской академии наук
по тематике защищаемой диссертации

1. Levkov L. L. et al. Three Isomeric Dioctyl Derivatives of 2, 7-Dithienyl [1] benzo-thieno [3, 2-b][1] benzothiophene: Synthesis, Optical, Thermal, and Semiconductor Properties/ L. L. Levkov, N. M. Surin, **O. V. Borshchev**, Y. O. Titova, N. O. Dubinets, E. A. Svidchenko, P. A. Shaposhnik, A. A. Trul, A. Z. Umarov, D. V. Anokhin, M. Rosenthal, D. A. Ivanov, V. V. Ivanov, S. A. Ponomarenko //Materials. – 2025. – V. 18. – №. 4. – P. 743.
2. Crystals of isomers of thiophene-phenyl-benzothiadiazole oligomers with terminal trimethylsilyl substituents: Growth from solutions, structure and fluorescent properties/ V. A. Postnikov, N. I. Sorokina, G. A. Yurasik, A. A. Kulishov, T. A. Sorokin, M. S. Lyasnikova, **O. V. Borshchev**, M. S. Skorotetsky, E. A. Svidchenko, N. M. Surin, S. A. Ponomarenko //Optical Materials. – 2025. – V. 160. – P. 116764.
3. Dual Optoelectronic Organic Field-Effect Device: Combination of Electroluminescence and Photosensitivity/ V. A. Trukhanov, A. Y. Sosorev, D. I. Dominskiy, R. S. Fedorenko, V. A. Tafeenko, **O. V. Borshchev**, S. A. Ponomarenko, D. Y. Paraschuk //Molecules. – 2024. – V. 29. – №. 11. – P. 2533.
4. Novel organic luminophores with benzene-1, 3, 5-triyl branching units/ L. L. Levkov, **O. V. Borshchev**, S. A. Pisarev, Y. V. Fedorov, E. A. Svidchenko, N. M. Surin, S. A. Ponomarenko //Mendeleev Communications. – 2024. – V. 34. – №. 2. – P. 170-173.
5. Crystals of Diphenyl-Benzothiadiazole and Its Derivative with Terminal Trimethylsilyl Substituents: Growth from Solutions, Structure, and Fluorescence Properties/ V. A. Postnikov, N. I. Sorokina, A. A. Kulishov, G. A. Yurasik, T. A. Sorokin, M. S. Lyasnikova, **O. V. Borshchev**, M. S. Skorotetsky, S. A. Pisarev, E. A. Svidchenko, N. M. Surin, S. A. Ponomarenko //ACS omega. – 2024. – V. 9. – №. 13. – P. 14932-14946.
6. The influence of terminal alkyl groups on the structure, and electrical and sensing properties of thin films of self-assembling organosilicon derivatives of benzothieno [3, 2-b][1] benzothiophene/ M. S. Polinskaya, A. A. Trul, **O. V. Borshchev**, M. S. Skorotetsky, V. P. Gaidarzh, S. K. Toirov, D. S. Anisimov, A. V. Bakirov, S. N. Chvalun, E. V. Agina, S. A. Ponomarenko //Journal of Materials Chemistry C. – 2023. – V. 11. – №. 5. – P. 1937-1948.
7. Strongly polarized surface electroluminescence from an organic light-emitting transistor/ V. A. Trukhanov, A. V. Kuevda, D. I. Dominskiy, A. L. Mannanov, T. V. Rybalova, V. A. Tafeenko, A. Yu. Sosorev, V. G. Konstantinov, M. S. Kazantsev, **O. V. Borshchev**, S. A. Ponomarenko, M. S. Pshenichnikov, D. Yu. Paraschuk //Materials Chemistry Frontiers. – 2023. – V. 7. – №. 2. – P. 238-248.
8. Polarity Switching in Organic Electronic Devices via Terminal Substitution of Active-Layer Molecules/ D. I. Dominskiy, O. G. Kharlanov, V. A. Trukhanov, A. Yu. Sosorev, N. I. Sorokina, M. S. Kazantsev, E. F. Lazneva, N. B. Gerasimova, V. S. Sobolev, A. S. Komolov, **O. V. Borshchev**, S. A. Ponomarenko, D. Yu. Paraschuk //ACS Applied Electronic Materials. – 2022. – V. 4. – №. 12. – P. 6345-6356.
9. Luminescent High-Mobility 2D Organic Semiconductor Single Crystals/ R. S. Fedorenko, A. V. Kuevda, V. A. Trukhanov, V. G. Konstantinov, A. Yu. Sosorev, A. A. Sonina, M. S. Kazantsev, N. M.

Surin, S. Grigorian, **O. V. Borshchev**, S. A. Ponomarenko, D. Yu. Parashuk //Advanced Electronic Materials. – 2022. – V. 8. – №. 7. – P. 2101281.

10. Synthesis, characterization and organic field-effect transistors applications of novel tetrathienoacene derivatives/ **O. V. Borshchev**, M. S. Skorotetcky, V. A. Trukhanov, R. S. Fedorenko, N. M. Surin, E. A. Svidchenko, A. Yu. Sosorev, M. S. Kazantsev, D. Yu. Parashuk, S. A. Ponomarenko //Dyes and Pigments. – 2021. – V. 185. – P. 108911.