Ivan Plyushchenko

Junior Researcher

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Chemistry Department, Lomonosov Moscow State University

orcid.org/0000-0003-3883-4695

plyushchenko.ivan@gmail.com

plyush1993

Education

2011-17 Specialist in Chemistry (equivalent to MSc) Lomonosov Moscow State University
Moscow, Russia

2017-22 Postgraduate academic and pedagogical training (Chemistry) Lomonosov Moscow State University
Moscow, Russia

2017-22 Doctor of Philosophy (Chemistry) Lomonosov Moscow State University
Moscow, Russia

Publications

1. Bolotnik, T., Plyushchenko, I., Smolenkov, A., Pirogov, A., Popik, M., & Shpigun, O. (2018). Identification of spillages of semi-volatile hydrocarbon fuels in soils by gas chromatography–mass spectrometry. *Journal of Analytical Chemistry*, *73*(6), 570–575.
2. Bolotnik, T., Timchenko, Y. V., Plyushchenko, I., Levkina, V., Pirogov, A., Smolenkov, A., Popik, M., & Shpigun, O. (2019). Use of chemometric methods of data analysis for the identification and typification of petroleum and petroleum products. *Journal of Analytical Chemistry*, *74*(13), 1336–1340.
3. Plyushchenko, I., Shakhmatov, D., Bolotnik, T., Baygildiev, T., Nesterenko, P. N., & Rodin, I. (2020). An approach for feature selection with data modelling in LC-MS metabolomics. *Analytical Methods*, *12*(28), 3582–3591.
4. Plyushchenko, I., Shakhmatov, D., & Rodin, I. (2021). Algorithm of combining chromatography–mass spectrometry untargeted profiling and multivariate analysis for identification of marker substances in samples of complex composition. *Inorganic Materials*, *57*(14), 1397–1403.
5. Kulikova, N., Zhelezova, A., Voropanov, M., Filippova, O., Plyushchenko, I., & Rodin, I. (2020). Monoammonium phosphate effects on glyphosate in soils: Mobilization, phytotoxicity, and alteration of the microbial community. *Eurasian Soil Science*, *53*(6), 787–797.
6. Kulikova, N., Zhelezova, A., Filippova, O., Plyushchenko, I., & Rodin, I. (2020). The degradation of glyphosate and its effect on the microbial community of agro-sod–podzolic soil under short-term model experiment conditions. *Moscow University Soil Science Bulletin*, *75*(3), 138–145.
7. Vokuev, M., Baygildiev, T., Plyushchenko, I., Ikhalaynen, Y., Ogorodnikov, R., Solontsov, I., Braun, A., Savelieva, E., Rybalchenko, I., & Rodin, I. (2021). Untargeted and targeted analysis of sarin poisoning biomarkers in rat urine by liquid chromatography and tandem mass spectrometry. *Analytical and Bioanalytical Chemistry*, *413*(28), 6973–6985.
8. Plyushchenko, I. V., Fedorova, E. S., Potoldykova, N. V., Polyakovskiy, K. A., Glukhov, A. I., & Rodin, I. A. (2021). Omics untargeted key script: R-based software toolbox for untargeted metabolomics with bladder cancer biomarkers discovery case study. *Journal of Proteome Research*, *21*(3), 833–847.
9. Burkin, M. A., Galvidis, I. A., Surovoy, Y. A., Plyushchenko, I. V., Rodin, I. A., & Tsarenko, S. V. (2021). Development of ELISA formats for polymyxin b monitoring in serum of critically ill patients. *Journal of Pharmaceutical and Biomedical Analysis*, *204*, 114275.
10. Voinova, V. V., Selivanov, N. A., Plyushchenko, I. V., Vokuev, M. F., Bykov, A. Y., Klyukin, I. N., Novikov, A. S., Zhdanov, A. P., Grigoriev, M. S., Rodin, I. A.others. (2021). Fused 1, 2-diboraoxazoles based on closo-decaborate anion–novel members of diboroheterocycle class. *Molecules*, *26*(1), 248.
11. Fedorova, E. S., Matyushin, D. D., Plyushchenko, I. V., Stavrianidi, A. N., & Buryak, A. K. (2022). Deep learning for retention time prediction in reversed-phase liquid chromatography. *Journal of Chromatography A*, *1664*, 462792.