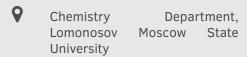
Ivan Plyushchenko

PhD, postdoctoral search fellow

August 2022



orcid.org/0000-0003-3883-4695

plyushchenko.ivan@gmail.com

plyush1993

Education

2017

2011-17	Specialist in Chemistry (equivalent to MSc) Lomonosov Moscow State University
	Moscow, Russia
2017-21	Postgraduate academic and pedagogical training (Chemistry) Lomonosov Moscow State University Moscow, Russia
2017-22	Doctor of Philosophy (Chemistry) Lomonosov Moscow State University Moscow, Russia

Grants and awards

Salzburg, Austria	MSACL EU 2017 Travel Grant	2017
Florence, Italy	IMSC 2018 Fellowship	2018
Salzburg, Austria	MSACL EU 2019 Travel Grant	2019

MSACL EU 2017 Travel Grant

Biomedical Chromatography Peer Reviewer

Professional Certificates

2017	Metabolomics 202: Approaches, Applications and C MSACL EU 2017 16 hrs	Challenges
2018	Introduction to R Course n/a	DataCamp
2018	R Basics - R Programming Language Introduction 4 hrs	Udemy
2019	Data Science 201: Going Further With R: Tackling Clinical tory Data Manipulation and Modeling MSA 16 hrs	al Labora- ACL EU 2017
2019	Introduction to programming in R n/a	Dataquest
2019	Intermediate R programming n/a	Dataquest
2019	Data visualization in R n/a	Dataquest
2019	Data analyst in R n/a	Dataquest
2019	Data cleaning in R n/a	Dataquest

Conferences

- 2016 Complexation of sulfo-ß-cyclodextrin with fenoterol. Electrophoretic and spectroscopic study VIIIth International Symposium Design and Synthesis of Supramolecular Architectures, Kazan, Russia
- 2017 Simple & Robust Approach in Urinary Metabolomics Based on UPLC-MS for Preoperative Colorectal Cancer Diagnostics MSACL 2017 EU, Salzburg, Austria
- 2018 Typical LC-MS metabolomics workflow for profiling urine samples of patients with colorectal cancer XXII International Mass Spectrometry Conference, Florence, Italy
- 2019 Comparison of the kinetics of dyes degradation of handwritten strokes subjected to different types of artificial aging and studied using chromatography mass-spectrometry and statistical data processing 48th International Symposium on High-Performance Liquid Phase Separations and Related Techniques, Milan, Italy
- 2019 Bioassay Classification Study via LC-MS and Machine Learning in Conjunction with Dimensionality Reduction MSACL 2019 EU, Salzburg, Austria
- 2020 Humulus lupulus LC-MS untargeted profiling study for geographic origin classification task4th International Symposium on Phytochemicals in Medicine and Food, Xi'an, China
- 2021 Describing metabolome diversity between Humulus lupulus genetic origin groups using UHPLC-MS/MS The 69th Annual Conference on Mass Spectrometry of MSSJ, Japan
- 2022 Application of gradient boosting machine for signal processing in LC-MS metabolomics 13th Winter Symposium on Chemometrics, Russia
- 2022 Untargeted metabolomics study of Humulus lupulus brewing cultivars, for genetic origin classification task 13th Winter Symposium on Chemometrics, 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.
- 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.
- 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.
- 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.