Ivan Plyushchenko

PhD, postdoctoral research fellow

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📍 Chemistry Department, Lomonosov Moscow State University

🏠 orcid.org/0000-0003-3883-4695

✉ plyushchenko.ivan@gmail.com

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Education

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

Grants and awards

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

Current journal roles

Biomedical Chromatography	Peer Reviewer

Professional Certificates

2017	Metabolomics 202: Approaches, Applications and Challenges MSACL EU 2017 16 hrs	
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 Laboratory Data Manipulation and Modeling 16 hrs	MSACL EU 2019
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 task   4th 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

2022   Deep learning for retention time prediction in reversed-phase liquid chromatography   ES Fedorova, DD Matyushin, IV Plyushchenko, AN Stavrianidi, AK Buryak

Journal of Chromatography A

Citations: 3

2021   Fused 1,2-Diboraoxazoles Based on closo-Decaborate Anion–Novel Members of Diboroheterocycle Class   VV Voinova, NA Selivanov, IV Plyushchenko, MF Vokuev, AY Bykov, …

Molecules

Citations: 11

2021   Development of ELISA formats for polymyxin B monitoring in serum of critically ill patients   MA Burkin, IA Galvidis, YA Surovoy, IV Plyushchenko, IA Rodin, …

Journal of Pharmaceutical and Biomedical Analysis

Citations: 6

2021   Omics Untargeted Key Script: R-Based Software Toolbox for Untargeted Metabolomics with Bladder Cancer Biomarkers Discovery Case Study IV Plyushchenko, ES Fedorova, NV Potoldykova, KA Polyakovskiy, …

Journal of Proteome Research

Citations: 2

2021   Untargeted and targeted analysis of sarin poisoning biomarkers in rat urine by liquid chromatography and tandem mass spectrometry   MF Vokuev, TM Baygildiev, IV Plyushchenko, YA Ikhalaynen, …

Analytical and Bioanalytical Chemistry

Citations: 0

2020   Monoammonium phosphate effects on glyphosate in soils: mobilization, phytotoxicity, and alteration of the microbial community NA Kulikova, AD Zhelezova, MG Voropanov, OI Filippova, …

Eurasian Soil Science

Citations: 6

2020   Algorithm of combining chromatography mass spectrometry-untargeted profiling and multivariate analysis for identification of marker-substances in samples of complex composition   IV Plyushchenko, DG Shakhmatov, IA Rodin

Industrial laboratory. Diagnostics of materials

Citations: 3

2020   An approach for feature selection with data modelling in LC-MS metabolomics   I Plyushchenko, D Shakhmatov, T Bolotnik, T Baygildiev, PN Nesterenko, …

Analytical Methods

Citations: 3

2020   The Degradation of Glyphosate and Its Effect on the Microbial Community of Agro-Sod–Podzolic Soil under Short-Term Model Experiment Conditions   NA Kulikova, AD Zhelezova, OI Filippova, IV Plyushchenko, IA Rodin

Moscow University Soil Science Bulletin

Citations: 2

2019   Use of chemometric methods of data analysis for the identification and typification of petroleum and petroleum products   TA Bolotnik, YV Timchenko, IV Plyushchenko, VV Levkina, AV Pirogov, …

Journal of Analytical Chemistry

Citations: 4

2018   Identification of spillages of semi-volatile hydrocarbon fuels in soils by gas chromatography–mass spectrometry   TA Bolotnik, IV Plyushchenko, AD Smolenkov, AV Pirogov, MV Popik, …

Journal of Analytical Chemistry

Citations: 1
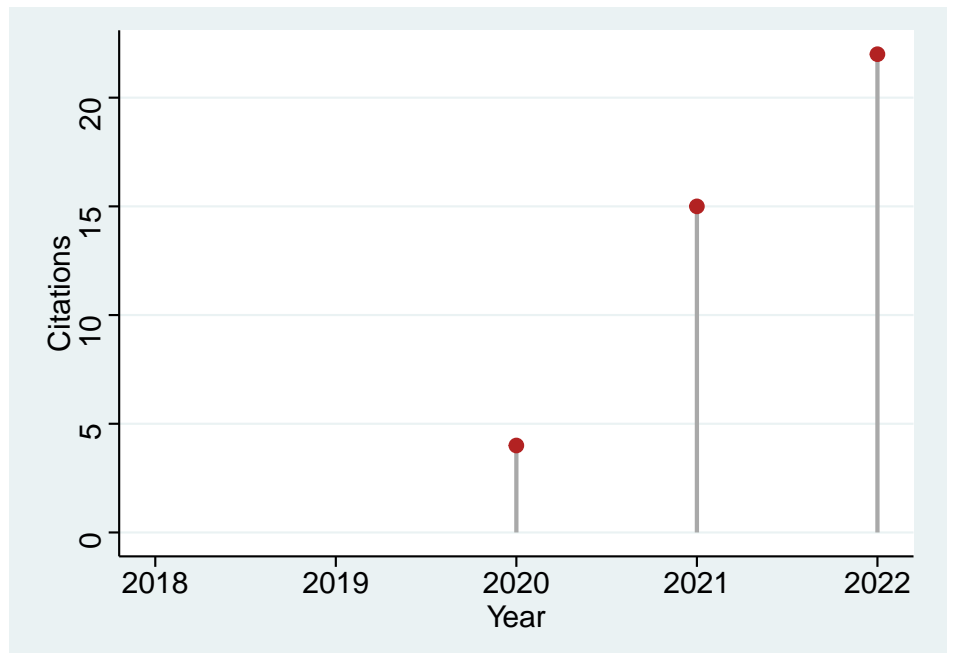
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