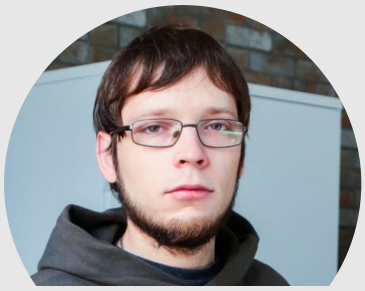

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October 2022

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Education

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

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 DataCamp
n/a

2018 R Basics - R Programming Language Introduction Udemy
4 hrs

2019 Data Science 201: Going Further With R: Tackling Clinical Laboratory Data Manipulation and Modeling MSACL EU 2019
16 hrs

2019 Introduction to programming in R Dataquest
n/a

2019 Intermediate R programming Dataquest
n/a

2019 Data visualization in R Dataquest
n/a

2019 Data analyst in R Dataquest
n/a

2019 Data cleaning in R Dataquest
n/a

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: 5

2022 Hopomics: Humulus lupulus Brewing Cultivars Classification Based on LC-MS Profiling and Nested Feature Selection YA Ikhalaynen, IV Plyushchenko, IA Rodin
Metabolites
Citations: 0

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: 4

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: 8

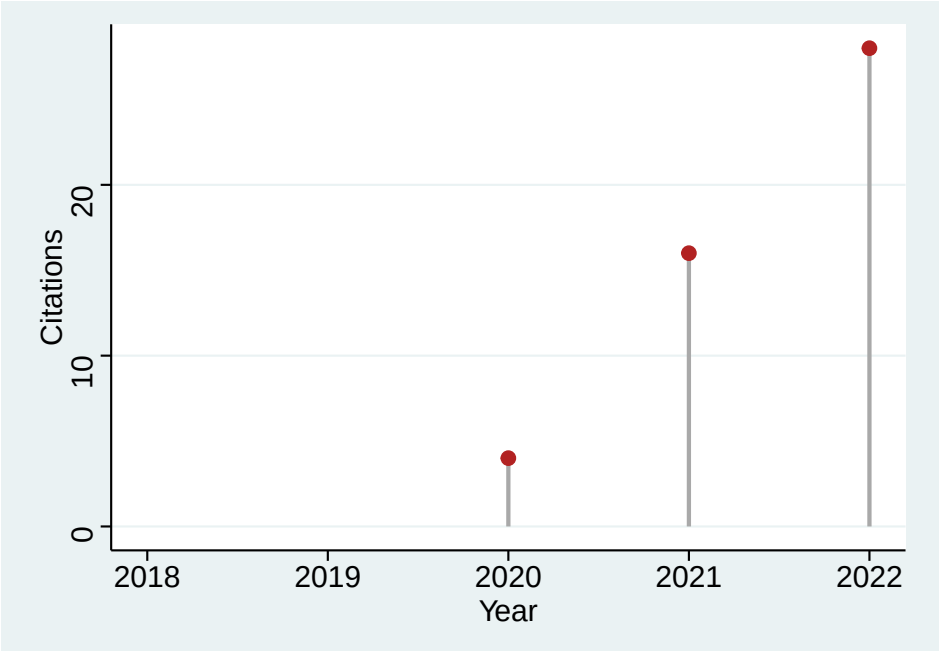
2020 Algorithm of combining chromatography mass spectrometry-untargeted profiling and multivariate analysis for identification of marker-substances in samples of complex composition IV Plyushchenko, DG Shakhmatov, IA Rodin
Industrial laboratory. Diagnostics of materials
Citations: 4

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: 5

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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