

# Dmitriy S Kosyakov

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/107107/dmitriy-s-kosyakov-publications-by-citations.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91  
papers

630  
citations

15  
h-index

19  
g-index

97  
ext. papers

837  
ext. citations

3  
avg, IF

4.43  
L-index

#	Paper	IF	Citations
91	Simultaneous determination of 1,1-dimethylhydrazine and products of its oxidative transformations by liquid chromatography-tandem mass spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2014</b> , 94, 1254-1263	1.8	34
90	Semi volatile organic compounds in the snow of Russian Arctic islands: Archipelago Novaya Zemlya. <i>Environmental Pollution</i> , <b>2018</b> , 239, 416-427	9.3	28
89	Negative ion mode atmospheric pressure ionization methods in lignin mass spectrometry: A comparative study. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30, 2099-108	2.2	27
88	Characterisation of oxidation products of 1,1-dimethylhydrazine by high-resolution orbitrap mass spectrometry. <i>Chemosphere</i> , <b>2017</b> , 174, 66-75	8.4	23
87	Optimization of sample preparation conditions in the study of lignin by MALDI mass spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2014</b> , 69, 1344-1350	1.1	22
86	Formation of low molecular weight oligomers from chitin and chitosan stimulated by plasma-assisted processes. <i>Carbohydrate Polymers</i> , <b>2017</b> , 163, 54-61	10.3	21
85	Determination of transformation products of 1,1-dimethylhydrazine by gas chromatography-tandem mass spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2015</b> , 70, 1553-1560	1.1	21
84	Spectrophotometric determination of hydrazine, methylhydrazine, and 1,1-dimethylhydrazine with preliminary derivatization by 5-nitro-2-furaldehyde. <i>Journal of Analytical Chemistry</i> , <b>2017</b> , 72, 171-177	1.1	20
83	Rapid determination of 1,1-dimethylhydrazine transformation products in soil by accelerated solvent extraction coupled with gas chromatography-tandem mass spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2015</b> , 95, 1321-1337	1.8	20
82	Effects of oxidant and catalyst on the transformation products of rocket fuel 1,1-dimethylhydrazine in water and soil. <i>Chemosphere</i> , <b>2019</b> , 228, 335-344	8.4	18
81	Direct determination of hydrazine, methylhydrazine, and 1,1-dimethylhydrazine by zwitterionic hydrophilic interaction liquid chromatography with amperometric detection. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2017</b> , 97, 313-329	1.8	16
80	Quantification of transformation products of rocket fuel unsymmetrical dimethylhydrazine in soils using SPME and GC-MS. <i>Talanta</i> , <b>2018</b> , 184, 332-337	6.2	16
79	Halogenated fatty amides - A brand new class of disinfection by-products. <i>Water Research</i> , <b>2017</b> , 127, 183-190	12.5	15
78	Solvatochromic polarity parameters for binary mixtures of 1-butyl-3-methylimidazolium acetate with water, methanol, and dimethylsulfoxide. <i>Russian Journal of Physical Chemistry A</i> , <b>2015</b> , 89, 1814-1820	8.7	15
77	Ionic liquid matrices for MALDI mass spectrometry of lignin. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 7429-7439	4.4	15
76	Determination of triterpenoids from birch bark by liquid chromatography-tandem mass spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2014</b> , 69, 1264-1269	1.1	14
75	Quantification of Transformation Products of Unsymmetrical Dimethylhydrazine in Water Using SPME and GC-MS. <i>Chromatographia</i> , <b>2017</b> , 80, 931-940	2.1	13

74	Peat burning - An important source of pyridines in the earth atmosphere. <i>Environmental Pollution</i> , <b>2020</b> , 266, 115109	9.3	13
73	Study of Products of the Alkaline Decomposition of Hydrolysis Lignin by Atmospheric Pressure Photoionization High-Resolution Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2017</b> , 72, 1396-1403 <sup>1,1</sup>	1.1	12
72	Modeling solid-phase microextraction of volatile organic compounds by porous coatings using finite element analysis. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1076, 73-81	6.6	11
71	Bioprospecting of Less-Polar Constituents from Endemic Brown Macroalga <i>J. Agardh</i> from the Adriatic Sea and Targeted Antioxidant Effects In Vitro and In Vivo (Zebrafish Model). <i>Marine Drugs</i> , <b>2021</b> , 19,	6	10
70	Rapid simultaneous determination of pentacyclic triterpenoids by mixed-mode liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , <b>2020</b> , 1609, 460458	4.5	10
69	Determination of 1,1-Dimethylhydrazine and its Transformation Products in Soil by Zwitterionic Hydrophilic Interaction Liquid Chromatography/Tandem Mass Spectrometry. <i>Chromatographia</i> , <b>2018</b> , 81, 891-900	2.1	9
68	Bio-Based Solvents and Gasoline Components From Renewable 2,3-Butanediol and 1,2-Propanediol: Synthesis and Characterization. <i>Molecules</i> , <b>2020</b> , 25,	4.8	8
67	Evaluation of temperature and pressure effects on retention in supercritical fluid chromatography on polar stationary phases. <i>Journal of Chromatography A</i> , <b>2020</b> , 1610, 460600	4.5	8
66	Arctic snow pollution: A GC-HRMS case study of Franz Joseph Land archipelago. <i>Environmental Pollution</i> , <b>2020</b> , 265, 114885	9.3	7
65	Specific features of sample preparation upon chromatographic determination of 1,1-dimethylhydrazine and N-nitrosodimethylamine in peaty soils. <i>Moscow University Chemistry Bulletin</i> , <b>2015</b> , 70, 63-68	0.5	7
64	Acidity of Guaiacol Derivatives in Water-Acetone Mixtures. <i>Russian Journal of Applied Chemistry</i> , <b>2005</b> , 78, 125-129	0.8	7
63	Carbon nanocoatings: A new approach to recording mass spectra of low-molecular compounds using surface-assisted laser desorption/ionization mass spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2016</b> , 71, 1221-1227	1.1	7
62	Identification of novel disinfection byproducts in pool water: Chlorination of the algacide benzalkonium chloride. <i>Chemosphere</i> , <b>2020</b> , 239, 124801	8.4	7
61	Simultaneous Determination of Hydrazine, Methylhydrazine, and 1,1-Dimethylhydrazine by High-Performance Liquid Chromatography with Pre- and Post-Column Derivatization by 5-Nitro-2-Furaldehyde. <i>Journal of Analytical Chemistry</i> , <b>2018</b> , 73, 497-503	1.1	7
60	Photolytic and photocatalytic degradation of doxazosin in aqueous solution. <i>Science of the Total Environment</i> , <b>2020</b> , 740, 140131	10.2	6
59	Characterization of Ionic Liquid Lignins Isolated from Spruce Wood with 1-Butyl-3-methylimidazolium Acetate and Methyl Sulfate and Their Binary Mixtures with DMSO. <i>Molecules</i> , <b>2020</b> , 25,	4.8	6
58	Migration and transformation of 1,1-dimethylhydrazine in peat bog soil of rocket stage fall site in Russian North. <i>Science of the Total Environment</i> , <b>2020</b> , 726, 138483	10.2	6
57	Studies of reaction products of hydrolytic lignin with nitric acid. <i>Russian Chemical Bulletin</i> , <b>2016</b> , 65, 237-244	2.4	6

56	Subcritical extraction of birch bark pentacyclic triterpenes. <i>Russian Chemical Bulletin</i> , <b>2017</b> , 66, 875-881	1.7	6
55	Characterization of Disinfection By-Products in Arkhangelsk Tap Water by Liquid Chromatography/High-Resolution Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2018</b> , 73, 1260-1268	1.1	6
54	Determination of natural aromatic acids using supercritical fluid chromatography. <i>Russian Journal of Physical Chemistry B</i> , <b>2016</b> , 10, 1062-1071	1.2	6
53	Fractionation of Wood with Binary Solvent 1-Butyl-3-methylimidazolium Acetate + Dimethyl Sulfoxide. <i>Russian Journal of Applied Chemistry</i> , <b>2018</b> , 91, 663-670	0.8	6
52	Determination of Ni, Co, and Cu in seawater by total external reflection X-ray fluorescence spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2017</b> , 72, 608-616	1.1	5
51	Depolymerization of Alkaline Lignin in the Medium of Supercritical 2-Propanol. <i>Russian Journal of Applied Chemistry</i> , <b>2020</b> , 93, 99-107	0.8	5
50	Protolytic properties of lignin in binary mixtures of water with aprotic solvents. <i>Russian Journal of Applied Chemistry</i> , <b>2013</b> , 86, 1064-1069	0.8	5
49	Supercritical fluid extraction of 1,1-dimethylhydrazine from peaty soils. <i>Russian Journal of Physical Chemistry B</i> , <b>2013</b> , 7, 880-884	1.2	5
48	Modification of sulfate lignin with sodium periodate to obtain sorbent of 1,1-dimethylhydrazine. <i>Russian Journal of Applied Chemistry</i> , <b>2017</b> , 90, 516-521	0.8	5
47	Transformation of Unsymmetrical Dimethylhydrazine in Supercritical Water. <i>Russian Journal of Physical Chemistry B</i> , <b>2019</b> , 13, 1103-1110	1.2	5
46	Study of Nettle ( <i>Urtica diŕta</i> ) Lignin by Atmospheric Pressure Photoionization Orbitrap Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2019</b> , 74, 1412-1420	1.1	5
45	Highly Sensitive Determination of Chlorophenols in Sea Water by Gas Chromatography Tandem Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2018</b> , 73, 991-998	1.1	5
44	A case of Z/E-isomers elution order inversion caused by cosolvent percentage change in supercritical fluid chromatography. <i>Journal of Chromatography A</i> , <b>2017</b> , 1479, 177-184	4.5	4
43	Study of the sedge ( <i>Cŕex</i> ) lignin by high-resolution mass spectrometry and NMR spectroscopy. <i>Russian Chemical Bulletin</i> , <b>2020</b> , 69, 2004-2012	1.7	4
42	Solvent effect on the acidity constants of lignin-related phenols in water-acetone and water-1,4-dioxane binary mixtures within the Kamlet-Taft formalism. <i>Russian Journal of General Chemistry</i> , <b>2012</b> , 82, 1909-1912	0.7	4
41	Using a Stationary Phase Based on Porous Graphitized Carbon for the Determination of 1,1-Dimethylhydrazine Transformation Products by Liquid Chromatography Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2020</b> , 75, 510-518	1.1	4
40	Study of the Products of Oxidation of 1,1-Dimethylhydrazine by Nitrogen Dioxide in an Aqueous Solution by High-Resolution Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2018</b> , 73, 1223-1228	1.1	4
39	Chitosan Plasma Chemical Processing in Beam-Plasma Reactors as a Way of Environmentally Friendly Phytostimulants Production. <i>Processes</i> , <b>2021</b> , 9, 103	2.9	4

38	One-Step Synthesis of Picric Acid from Phenol. <i>Organic Preparations and Procedures International</i> , <b>2017</b> , 49, 178-181	1.1	3
37	Synthesis of 2,4-dinitrophenol. <i>Russian Journal of Applied Chemistry</i> , <b>2012</b> , 85, 1577-1580	0.8	3
36	Application of analytical methods for estimating contamination of atmospheric air during launch of carrier rockets of different classes from the Plesetsk Cosmodrome. <i>Inorganic Materials</i> , <b>2010</b> , 46, 1627-1631	0.9	3
35	Solvatochromism and preferential solvation of para-derivatives of guaiacol in water-N,N-dimethylformamide mixtures. <i>Russian Journal of Physical Chemistry A</i> , <b>2007</b> , 81, 1076-1081	0.7	3
34	Transformation of resveratrol under disinfection conditions. <i>Chemosphere</i> , <b>2020</b> , 260, 127557	8.4	3
33	Occurrence of Volatile and Semi-Volatile Organic Pollutants in the Russian Arctic Atmosphere: The International Siberian Shelf Study Expedition (ISSS-2020). <i>Atmosphere</i> , <b>2021</b> , 12, 767	2.7	3
32	Dopant-assisted atmospheric pressure photoionization Orbitrap mass spectrometry - An approach to molecular characterization of lignin oligomers. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1179, 338836	6.6	3
31	Data on the spatial distribution of 1,1-dimethylhydrazine and its transformation products in peat bog soil of rocket stage fall site in Russian North. <i>Data in Brief</i> , <b>2020</b> , 30, 105614	1.2	2
30	The Properties of the Nucleodur HILIC Stationary Phase in Supercritical Fluid Chromatography. <i>Russian Journal of Physical Chemistry A</i> , <b>2018</b> , 92, 793-798	0.7	2
29	Simultaneous Determination of Anthraquinone and Bisphenol A in Pulp and Paper Products by High Performance Liquid Chromatography-Tandem Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2019</b> , 74, 1089-1095	1.1	2
28	Specific features of solvation of lignin related phenols in the binary mixtures of water with dimethyl sulfoxide, 1,4-dioxane, and acetonitrile. <i>Russian Chemical Bulletin</i> , <b>2014</b> , 63, 2045-2050	1.7	2
27	Some aspects of additives effects on retention in supercritical fluid chromatography studied by linear free energy relationships method.. <i>Journal of Chromatography A</i> , <b>2022</b> , 1665, 462820	4.5	2
26	Mass spectrometry in the study of air pollution in the Arctic <b>2020</b> , 13, 56-68		2
25	Quadrupole Ion Trap Time-of-Flight MALDI Mass Spectrometry: Hydration of Ions of Hydroxyl-Containing Compounds. <i>Journal of Analytical Chemistry</i> , <b>2019</b> , 74, 1390-1395	1.1	2
24	Application of Carbon Matrices to Screening Pentacyclic Triterpenoids in Plant Feedstock by MALDI Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2020</b> , 75, 1749-1757	1.1	2
23	Thermophysical properties of model compounds of the lignin structural unit. <i>Russian Chemical Bulletin</i> , <b>2016</b> , 65, 2504-2508	1.7	2
22	Promising Solvents for Lignin Depolymerization: Stability under Supercritical Conditions. <i>Russian Journal of Physical Chemistry B</i> , <b>2019</b> , 13, 1147-1149	1.2	2
21	Gas Chromatography-Mass Spectrometry Quantification of 1,1-Dimethylhydrazine Transformation Products in Aqueous Solutions: Accelerated Water Sample Preparation. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2

20	Polycyclic aromatic hydrocarbons in the snow cover of the northern city agglomeration. <i>Scientific Reports</i> , <b>2021</b> , 11, 19074	4.9	2
19	Rapid quantification and screening of nitrogen-containing rocket fuel transformation products by vortex assisted liquid-liquid microextraction and gas chromatography High-resolution Orbitrap mass spectrometry. <i>Microchemical Journal</i> , <b>2021</b> , 171, 106821	4.8	2
18	Antiviral drug Umifenovir (Arbidol) in municipal wastewater during the COVID-19 pandemic: Estimated levels and transformation. <i>Science of the Total Environment</i> , <b>2022</b> , 805, 150380	10.2	2
17	Thermochemical structural transformations of polyoxadiazoles. <i>Russian Journal of Applied Chemistry</i> , <b>2015</b> , 88, 1304-1310	0.8	1
16	An IR study of organosolvent lignin. <i>Russian Journal of Applied Chemistry</i> , <b>2004</b> , 77, 1536-1539	0.8	1
15	Comparative Analysis of Lignins of Various Plant Forms by 31P NMR Spectroscopy. <i>Russian Journal of Bioorganic Chemistry</i> , <b>2020</b> , 46, 1337-1342	1	1
14	Laser Desorption/Ionization of Low-Molecular-Weight Lignin Oligomers. <i>Journal of Analytical Chemistry</i> , <b>2020</b> , 75, 1814-1824	1.1	1
13	Application of Atmospheric Pressure Photoionization to the Determination of 1,1-Dimethylhydrazine Transformation Products by Liquid Chromatography/Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2020</b> , 75, 1700-1707	1.1	1
12	Acidity Constants of Lignin Model Compounds in the Electronically Excited State in Water/N,N-Dimethylformamide Mixtures. <i>Russian Journal of Physical Chemistry A</i> , <b>2020</b> , 94, 1587-1595	0.7	1
11	Screening and semi-quantitative determination of pentacyclic triterpenoids in plants by liquid chromatography-tandem mass spectrometry in precursor ion scan mode. <i>Phytochemical Analysis</i> , <b>2021</b> , 32, 252-261	3.4	1
10	Study of the Composition of Volatile By-Products, Formed by Dissolution of Wood in Ionic Liquids Based on 1-Butyl-3-Methylimidazolium. <i>Russian Journal of Applied Chemistry</i> , <b>2021</b> , 94, 337-346	0.8	0
9	Study of Lignin by Atmospheric Pressure Photoionization Orbitrap Mass Spectrometry: Effect of Spectral Resolution. <i>Journal of Analytical Chemistry</i> , <b>2021</b> , 76, 1610-1617	1.1	0
8	Supercritical Fluid Chromatography/Mass-Spectrometry of Nitrogen-Containing Compounds: Atmospheric Pressure Ionization. <i>Journal of Analytical Chemistry</i> , <b>2021</b> , 76, 1624-1634	1.1	0
7	Polycyclic aromatic hydrocarbons in the Siberian Arctic seas sediments. <i>Marine Pollution Bulletin</i> , <b>2022</b> , 180, 113741	6.7	0
6	A study of the photometric reaction of phenol nitrosation. <i>Russian Journal of Applied Chemistry</i> , <b>2013</b> , 86, 836-840	0.8	
5	Nitration of phenol in 1,4-dioxane. <i>Russian Journal of Applied Chemistry</i> , <b>2015</b> , 88, 1783-1787	0.8	
4	The Study of Water Sorption with Hydrolysis Lignin by Solid-State NMR Spectroscopy. <i>Eurasian Chemico-Technological Journal</i> , <b>2019</b> , 21, 325	0.8	
3	Thermophysical Properties of Ionic Liquids with 1-Butyl-3-methylimidazolium Cation. <i>Russian Journal of Physical Chemistry A</i> , <b>2020</b> , 94, 1756-1760	0.7	

2 Lignopolyurethane foam based on hydrolytic lignin. *Russian Journal of Applied Chemistry*, **2016**, 89, 155-159

1 Transformation of Vanillin in Sub- and Supercritical Propanol-2 Media. *Russian Journal of Physical Chemistry B*, **2021**, 15, 1113-1119

1.2