

# Dmitriy S Kosyakov

## List of Publications by Year in descending order

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96  
papers

1,041  
citations

430442

18  
h-index

580395

25  
g-index

97  
all docs

97  
docs citations

97  
times ranked

726  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antiviral drug Umifenovir (Arbidol) in municipal wastewater during the COVID-19 pandemic: Estimated levels and transformation. <i>Science of the Total Environment</i> , 2022, 805, 150380.	3.9	22
2	Some aspects of additives effects on retention in supercritical fluid chromatography studied by linear free energy relationships method. <i>Journal of Chromatography A</i> , 2022, 1665, 462820.	1.8	9
3	Features of the Chemical Composition and Structure of Birch Phloem Dioxane Lignin: A Comprehensive Study. <i>Polymers</i> , 2022, 14, 964.	2.0	5
4	Polycyclic aromatic hydrocarbons in the Siberian Arctic seas sediments. <i>Marine Pollution Bulletin</i> , 2022, 180, 113741.	2.3	8
5	The development of total organic carbon determination method in the sea water. , 2022, , 97-101.		0
6	Supercritical Fluid Chromatographyâ€”Tandem Mass Spectrometry for Rapid Quantification of Pentacyclic Triterpenoids in Plant Extracts. <i>Pharmaceuticals</i> , 2022, 15, 629.	1.7	7
7	Screening and semiâ€”quantitative determination of pentacyclic triterpenoids in plants by liquid chromatographyâ€”tandem mass spectrometry in precursor ion scan mode. <i>Phytochemical Analysis</i> , 2021, 32, 252-261.	1.2	11
8	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> , 2021, 94, 337-346.	0.1	2
9	Bioprospecting of Less-Polar Constituents from Endemic Brown Macroalga <i>Fucus virsoides</i> J. Agardh from the Adriatic Sea and Targeted Antioxidant Effects In Vitro and In Vivo (Zebrafish Model). <i>Marine Drugs</i> , 2021, 19, 235.	2.2	21
10	Occurrence of Volatile and Semi-Volatile Organic Pollutants in the Russian Arctic Atmosphere: The International Siberian Shelf Study Expedition (ISSS-2020). <i>Atmosphere</i> , 2021, 12, 767.	1.0	5
11	Gas Chromatographyâ€”Mass Spectrometry Quantification of 1,1-Dimethylhydrazine Transformation Products in Aqueous Solutions: Accelerated Water Sample Preparation. <i>Molecules</i> , 2021, 26, 5743.	1.7	5
12	Polycyclic aromatic hydrocarbons in the snow cover of the northern city agglomeration. <i>Scientific Reports</i> , 2021, 11, 19074.	1.6	9
13	Dopant-assisted atmospheric pressure photoionization Orbitrap mass spectrometry â€” An approach to molecular characterization of lignin oligomers. <i>Analytica Chimica Acta</i> , 2021, 1179, 338836.	2.6	8
14	Rapid quantification and screening of nitrogen-containing rocket fuel transformation products by vortex assisted liquid-liquid microextraction and gas chromatography â€” high-resolution Orbitrap mass spectrometry. <i>Microchemical Journal</i> , 2021, 171, 106821.	2.3	6
15	Chitosan Plasma Chemical Processing in Beam-Plasma Reactors as a Way of Environmentally Friendly Phytostimulants Production. <i>Processes</i> , 2021, 9, 103.	1.3	6
16	New Feâ€”Cu bimetallic coordination compounds based on Î”-ferrocene carboxylic acids and 2-thioimidazol-4-ones: structural, mechanistic and biological studies. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4730-4750.	3.0	3
17	Transformation of Vanillin in Sub- and Supercritical Propanol-2 Media. <i>Russian Journal of Physical Chemistry B</i> , 2021, 15, 1113-1119.	0.2	0
18	Study of Lignin by Atmospheric Pressure Photoionization Orbitrap Mass Spectrometry: Effect of Spectral Resolution. <i>Journal of Analytical Chemistry</i> , 2021, 76, 1610-1617.	0.4	4

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19	Supercritical Fluid Chromatographyâ€“Mass-Spectrometry of Nitrogen-Containing Compounds: Atmospheric Pressure Ionization. <i>Journal of Analytical Chemistry</i> , 2021, 76, 1624-1634.	0.4	2
20	Identification of novel disinfection byproducts in pool water: Chlorination of the algacide benzalkonium chloride. <i>Chemosphere</i> , 2020, 239, 124801.	4.2	21
21	Evaluation of temperature and pressure effects on retention in supercritical fluid chromatography on polar stationary phases. <i>Journal of Chromatography A</i> , 2020, 1610, 460600.	1.8	16
22	Rapid simultaneous determination of pentacyclic triterpenoids by mixed-mode liquid chromatographyâ€“tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1609, 460458.	1.8	16
23	Transformation of resveratrol under disinfection conditions. <i>Chemosphere</i> , 2020, 260, 127557.	4.2	11
24	Acidity Constants of Lignin Model Compounds in the Electronically Excited State in Waterâ€“N,N-Dimethylformamide Mixtures. <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 1587-1595.	0.1	3
25	Thermophysical Properties of Ionic Liquids with 1-Butyl-3-methylimidazolium Cation. <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 1756-1760.	0.1	0
26	Study of the sedge ( <i>Carex</i> ) lignin by high-resolution mass spectrometry and NMR spectroscopy. <i>Russian Chemical Bulletin</i> , 2020, 69, 2004-2012.	0.4	9
27	Arctic snow pollution: A GC-HRMS case study of Franz Joseph Land archipelago. <i>Environmental Pollution</i> , 2020, 265, 114885.	3.7	13
28	Depolymerization of Alkaline Lignin in the Medium of Supercritical 2-Propanol. <i>Russian Journal of Applied Chemistry</i> , 2020, 93, 99-107.	0.1	7
29	Photolytic and photocatalytic degradation of doxazosin in aqueous solution. <i>Science of the Total Environment</i> , 2020, 740, 140131.	3.9	14
30	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> , 2020, 25, 2479.	1.7	11
31	Peat burning â€“ An important source of pyridines in the earth atmosphere. <i>Environmental Pollution</i> , 2020, 266, 115109.	3.7	25
32	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> , 2020, 726, 138483.	3.9	19
33	Bio-Based Solvents and Gasoline Components from Renewable 2,3-Butanediol and 1,2-Propanediol: Synthesis and Characterization. <i>Molecules</i> , 2020, 25, 1723.	1.7	12
34	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> , 2020, 30, 105614.	0.5	6
35	Using a Stationary Phase Based on Porous Graphitized Carbon for the Determination of 1,1-Dimethylhydrazine Transformation Products by Liquid Chromatographyâ€“Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , 2020, 75, 510-518.	0.4	5
36	Mass spectrometry in the study of air pollution in the Arctic. , 2020, 13, 56-68.		2

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37	Comparative Analysis of Lignins of Various Plant Forms by 31P NMR Spectroscopy. Russian Journal of Bioorganic Chemistry, 2020, 46, 1337-1342.	0.3	2
38	Application of Carbon Matrices to Screening Pentacyclic Triterpenoids in Plant Feedstock by MALDI Mass Spectrometry. Journal of Analytical Chemistry, 2020, 75, 1749-1757.	0.4	4
39	Laser Desorption/Ionization of Low-Molecular-Weight Lignin Oligomers. Journal of Analytical Chemistry, 2020, 75, 1814-1824.	0.4	5
40	Application of Atmospheric Pressure Photoionization to the Determination of 1,1-Dimethylhydrazine Transformation Products by Liquid Chromatography/Mass Spectrometry. Journal of Analytical Chemistry, 2020, 75, 1700-1707.	0.4	1
41	Simultaneous Determination of Anthraquinone and Bisphenol A in Pulp and Paper Products by High Performance Liquid Chromatography-Tandem Mass Spectrometry. Journal of Analytical Chemistry, 2019, 74, 1089-1095.	0.4	4
42	Modeling solid-phase microextraction of volatile organic compounds by porous coatings using finite element analysis. Analytica Chimica Acta, 2019, 1076, 73-81.	2.6	15
43	Effects of oxidant and catalyst on the transformation products of rocket fuel 1,1-dimethylhydrazine in water and soil. Chemosphere, 2019, 228, 335-344.	4.2	37
44	Transformation of Unsymmetrical Dimethylhydrazine in Supercritical Water. Russian Journal of Physical Chemistry B, 2019, 13, 1103-1110.	0.2	7
45	Study of Nettle ( <i>Urtica diã³ica</i> ) Lignin by Atmospheric Pressure Photoionization Orbitrap Mass Spectrometry. Journal of Analytical Chemistry, 2019, 74, 1412-1420.	0.4	9
46	Promising Solvents for Lignin Depolymerization: Stability under Supercritical Conditions. Russian Journal of Physical Chemistry B, 2019, 13, 1147-1149.	0.2	3
47	Quadrupole Ion Trap Time-of-Flight MALDI Mass Spectrometry: Hydration of Ions of Hydroxyl-Containing Compounds. Journal of Analytical Chemistry, 2019, 74, 1390-1395.	0.4	3
48	The Study of Water Sorption with Hydrolysis Lignin by Solid-State NMR Spectroscopy. Eurasian Chemico-Technological Journal, 2019, 21, 325.	0.3	1
49	Semi volatile organic compounds in the snow of Russian Arctic islands: Archipelago Novaya Zemlya. Environmental Pollution, 2018, 239, 416-427.	3.7	36
50	Determination of 1,1-Dimethylhydrazine and its Transformation Products in Soil by Zwitterionic Hydrophilic Interaction Liquid Chromatography/Tandem Mass Spectrometry. Chromatographia, 2018, 81, 891-900.	0.7	14
51	Quantification of transformation products of rocket fuel unsymmetrical dimethylhydrazine in soils using SPME and GC-MS. Talanta, 2018, 184, 332-337.	2.9	26
52	Study of the Products of Oxidation of 1,1-Dimethylhydrazine by Nitrogen Dioxide in an Aqueous Solution by High-Resolution Mass Spectrometry. Journal of Analytical Chemistry, 2018, 73, 1223-1228.	0.4	4
53	Highly Sensitive Determination of Chlorophenols in Sea Water by Gas Chromatography-Tandem Mass Spectrometry. Journal of Analytical Chemistry, 2018, 73, 991-998.	0.4	7
54	Ionic liquid matrices for MALDI mass spectrometry of lignin. Analytical and Bioanalytical Chemistry, 2018, 410, 7429-7439.	1.9	20

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55	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> , 2018, 73, 497-503.	0.4	8
56	Fractionation of Wood with Binary Solvent 1-Butyl-3-methylimidazolium Acetate + Dimethyl Sulfoxide. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 663-670.	0.1	11
57	The Properties of the Nucleodur HILIC Stationary Phase in Supercritical Fluid Chromatography. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 793-798.	0.1	2
58	Characterization of Disinfection By-Products in Arkhangelsk Tap Water by Liquid Chromatography/High-Resolution Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , 2018, 73, 1260-1268.	0.4	19
59	Formation of low molecular weight oligomers from chitin and chitosan stimulated by plasma-assisted processes. <i>Carbohydrate Polymers</i> , 2017, 163, 54-61.	5.1	34
60	Characterisation of oxidation products of 1,1-dimethylhydrazine by high-resolution orbitrap mass spectrometry. <i>Chemosphere</i> , 2017, 174, 66-75.	4.2	33
61	Quantification of Transformation Products of Unsymmetrical Dimethylhydrazine in Water Using SPME and GC-MS. <i>Chromatographia</i> , 2017, 80, 931-940.	0.7	17
62	One-Step Synthesis of Picric Acid from Phenol. <i>Organic Preparations and Procedures International</i> , 2017, 49, 178-181.	0.6	9
63	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> , 2017, 97, 313-329.	1.8	23
64	A case of Z/E-isomers elution order inversion caused by cosolvent percentage change in supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2017, 1479, 177-184.	1.8	4
65	Determination of Ni, Co, and Cu in seawater by total external reflection X-ray fluorescence spectrometry. <i>Journal of Analytical Chemistry</i> , 2017, 72, 608-616.	0.4	6
66	Spectrophotometric determination of hydrazine, methylhydrazine, and 1,1-dimethylhydrazine with preliminary derivatization by 5-nitro-2-furaldehyde. <i>Journal of Analytical Chemistry</i> , 2017, 72, 171-177.	0.4	26
67	Halogenated fatty amides – A brand new class of disinfection by-products. <i>Water Research</i> , 2017, 127, 183-190.	5.3	27
68	Modification of sulfate lignin with sodium periodate to obtain sorbent of 1,1-dimethylhydrazine. <i>Russian Journal of Applied Chemistry</i> , 2017, 90, 516-521.	0.1	9
69	Subcritical extraction of birch bark pentacyclic triterpenes. <i>Russian Chemical Bulletin</i> , 2017, 66, 875-881.	0.4	8
70	Study of Products of the Alkaline Decomposition of Hydrolysis Lignin by Atmospheric Pressure Photoionization High-Resolution Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , 2017, 72, 1396-1403.	0.4	16
71	Vitamin K1 levels in the umbilical cord blood of Neonates in Arkhangelsk. <i>Rossiyskiy Vestnik Perinatologii i Pediatrii</i> , 2017, 62, 49-53.	0.1	0
72	Determination of natural aromatic acids using supercritical fluid chromatography. <i>Russian Journal of Physical Chemistry B</i> , 2016, 10, 1062-1071.	0.2	8

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73	Thermophysical properties of model compounds of the lignin structural unit. Russian Chemical Bulletin, 2016, 65, 2504-2508.	0.4	3
74	Carbon nanocoatings: A new approach to recording mass spectra of low-molecular compounds using surface-assisted laser desorption/ionization mass spectrometry. Journal of Analytical Chemistry, 2016, 71, 1221-1227.	0.4	7
75	Lignopolyurethane foam based on hydrolytic lignin. Russian Journal of Applied Chemistry, 2016, 89, 155-159.	0.1	0
76	Negative ion mode atmospheric pressure ionization methods in lignin mass spectrometry: A comparative study. Rapid Communications in Mass Spectrometry, 2016, 30, 2099-2108.	0.7	34
77	Studies of reaction products of hydrolytic lignin with nitric acid. Russian Chemical Bulletin, 2016, 65, 237-244.	0.4	9
78	Specific features of sample preparation upon chromatographic determination of 1,1-dimethylhydrazine and N-nitrosodimethylamine in peaty soils. Moscow University Chemistry Bulletin, 2015, 70, 63-68.	0.2	8
79	Determination of transformation products of 1,1-dimethylhydrazine by gas chromatography-tandem mass spectrometry. Journal of Analytical Chemistry, 2015, 70, 1553-1560.	0.4	23
80	Nitration of phenol in 1,4-dioxane. Russian Journal of Applied Chemistry, 2015, 88, 1783-1787.	0.1	1
81	Solvatochromic polarity parameters for binary mixtures of 1-butyl-3-methylimidazolium acetate with water, methanol, and dimethylsulfoxide. Russian Journal of Physical Chemistry A, 2015, 89, 1814-1820.	0.1	19
82	Rapid determination of 1,1-dimethylhydrazine transformation products in soil by accelerated solvent extraction coupled with gas chromatography-tandem mass spectrometry. International Journal of Environmental Analytical Chemistry, 2015, 95, 1321-1337.	1.8	24
83	Thermochemical structural transformations of polyoxadiazoles. Russian Journal of Applied Chemistry, 2015, 88, 1304-1310.	0.1	3
84	Determination of triterpenoids from birch bark by liquid chromatography-tandem mass spectrometry. Journal of Analytical Chemistry, 2014, 69, 1264-1269.	0.4	24
85	Optimization of sample preparation conditions in the study of lignin by MALDI mass spectrometry. Journal of Analytical Chemistry, 2014, 69, 1344-1350.	0.4	25
86	Specific features of solvation of lignin related phenols in the binary mixtures of water with dimethyl sulfoxide, 1,4-dioxane, and acetonitrile. Russian Chemical Bulletin, 2014, 63, 2045-2050.	0.4	2
87	Simultaneous determination of 1,1-dimethylhydrazine and products of its oxidative transformations by liquid chromatography-tandem mass spectrometry. International Journal of Environmental Analytical Chemistry, 2014, 94, 1254-1263.	1.8	39
88	A study of the photometric reaction of phenol nitrosation. Russian Journal of Applied Chemistry, 2013, 86, 836-840.	0.1	0
89	Protolytic properties of lignin in binary mixtures of water with aprotic solvents. Russian Journal of Applied Chemistry, 2013, 86, 1064-1069.	0.1	7
90	Supercritical fluid extraction of 1,1-dimethylhydrazine from peaty soils. Russian Journal of Physical Chemistry B, 2013, 7, 880-884.	0.2	5

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91	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. Russian Journal of General Chemistry, 2012, 82, 1909-1912.	0.3	7
92	Synthesis of 2,4-dinitrophenol. Russian Journal of Applied Chemistry, 2012, 85, 1577-1580.	0.1	3
93	Application of analytical methods for estimating contamination of atmospheric air during launch of carrier rockets of different classes from the Plesetsk Cosmodrome. Inorganic Materials, 2010, 46, 1627-1631.	0.2	3
94	Solvatochromism and preferential solvation of para-derivatives of guaiacol in water-N,N-dimethylformamide mixtures. Russian Journal of Physical Chemistry A, 2007, 81, 1076-1081.	0.1	5
95	Acidity of Guaiacol Derivatives in Water-Acetone Mixtures. Russian Journal of Applied Chemistry, 2005, 78, 125-129.	0.1	8
96	An IR study of organosolvent lignin. Russian Journal of Applied Chemistry, 2004, 77, 1536-1539.	0.1	1