

# Alena Kubatova

## List of Publications by Year in descending order

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83  
papers

2,917  
citations

186209

28  
h-index

175177

52  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3422  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Investigation of Thermal Air Degradation and Pyrolysis of Per- and Polyfluoroalkyl Substances and Aqueous Film-Forming Foams in Soil. ACS ES&T Engineering, 2022, 2, 198-209.	3.7	35
2	Hybrid Synthetic and Computational Study of an Optimized, Solvent-Free Approach to Curcuminoids. ACS Omega, 2022, 7, 7257-7277.	1.6	3
3	The first quantitative investigation of compounds generated from PFAS, PFAS-containing aqueous film-forming foams and commercial fluorosurfactants in pyrolytic processes. Journal of Hazardous Materials, 2022, 436, 129313.	6.5	17
4	Occurrence of both nonvolatile and semivolatile carbonaceous air particulate markers using thermal desorption-pyrolysis-gas chromatography-mass spectrometry. Atmospheric Environment, 2021, 246, 118058.	1.9	5
5	Thermal Decomposition of PFAS: Response to Comment on "Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon". Environmental Science and Technology Letters, 2021, 8, 364-365.	3.9	15
6	Reply to "The Novelty of a Two-Step Aromatization Process". Industrial & Engineering Chemistry Research, 2021, 60, 4191-4191.	1.8	0
7	Effect of granular activated carbon and other porous materials on thermal decomposition of per- and polyfluoroalkyl substances: Mechanisms and implications for water purification. Water Research, 2021, 200, 117271.	5.3	48
8	Quantitative insights on de/repolymerization and deoxygenation of lignin in subcritical water. Bioresource Technology, 2021, 342, 125974.	4.8	1
9	Metabolism of cyclic phenones in rainbow trout in vitro assays. Xenobiotica, 2020, 50, 115-131.	0.5	7
10	Pathways toward PAH Formation during Fatty Acid and Triglyceride Pyrolysis. Journal of Physical Chemistry A, 2020, 124, 7559-7574.	1.1	4
11	Highly Selective Hydroboration of Carbonyls by a Manganese Catalyst: Insight into the Reaction Mechanism. Organometallics, 2020, 39, 3375-3383.	1.1	22
12	Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon. Environmental Science and Technology Letters, 2020, 7, 343-350.	3.9	127
13	Metformin Uptake and Translocation in Chickpeas: Determination Using Liquid Chromatography-Mass Spectrometry. ACS Omega, 2020, 5, 1789-1795.	1.6	7
14	Atmospheric pressure ionization mass spectrometry as a tool for structural characterization of lignin. Rapid Communications in Mass Spectrometry, 2020, 34, e8813.	0.7	8
15	Optimization of Electrospray Ionization for Liquid Chromatography Time-of-Flight Mass Spectrometry Analysis of Preservatives in Wood Leachate Matrix. Chromatographia, 2019, 82, 1677-1685.	0.7	1
16	Characterization and analysis of estrogenic cyclic phenone metabolites produced in vitro by rainbow trout liver slices using GC-MS, LC-MS and LC-TOF-MS. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1126-1127, 121717.	1.2	3
17	Influence of early stages of triglyceride pyrolysis on the formation of PAHs as coke precursors. Physical Chemistry Chemical Physics, 2019, 21, 20189-20203.	1.3	13
18	Simultaneous high-temperature gas chromatography with flame ionization and mass spectrometric analysis of monocarboxylic acids and acylglycerols in biofuels and biofuel intermediate products. Journal of Chromatography A, 2019, 1584, 165-178.	1.8	5

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19	Effect of dihalides on the polymer linkages in the Cs <sub>2</sub> CO <sub>3</sub> -promoted polycondensation of 1 atm carbon dioxide and diols. <i>Materials Today Communications</i> , 2019, 18, 100-109.	0.9	6
20	Simultaneous determination of trace concentrations of aldehydes and carboxylic acids in particulate matter. <i>Journal of Chromatography A</i> , 2018, 1544, 49-61.	1.8	13
21	PAH/Aromatic Tar and Coke Precursor Formation in the Early Stages of Triglyceride (Triolein) Pyrolysis. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3238-3249.	1.1	16
22	Size exclusion chromatography of lignin: The mechanistic aspects and elimination of undesired secondary interactions. <i>Journal of Chromatography A</i> , 2018, 1534, 101-110.	1.8	32
23	Electrospray Ionization with High-Resolution Mass Spectrometry as a Tool for Lignomics: Lignin Mass Spectrum Deconvolution. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1044-1059.	1.2	23
24	An Initial Study of the Catalytic Reforming of Crop Oilâ€Derived 1â€Alkenes with HZSMâ€5 to Aromatic Hydrocarbons. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2018, 95, 1201-1211.	0.8	3
25	The extent of tebuconazole leaching from unpainted and painted softwood. <i>Science of the Total Environment</i> , 2018, 633, 1379-1385.	3.9	2
26	Lipophilic components of diesel exhaust particles induce pro-inflammatory responses in human endothelial cells through AhR dependent pathway(s). <i>Particle and Fibre Toxicology</i> , 2018, 15, 21.	2.8	52
27	Lipophilic Chemicals from Diesel Exhaust Particles Trigger Calcium Response in Human Endothelial Cells via Aryl Hydrocarbon Receptor Non-Genomic Signalling. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1429.	1.8	23
28	Microbial treatment of industrial lignin: Successes, problems and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 1179-1205.	8.2	85
29	Fungal Biotransformation of Insoluble Kraft Lignin into a Water Soluble Polymer. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 6103-6113.	1.8	20
30	Fate of triazoles in softwood upon environmental exposure. <i>Chemosphere</i> , 2017, 184, 261-268.	4.2	11
31	Thermal Carbon Analysis Enabling Comprehensive Characterization of Lignin and Its Degradation Products. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10334-10341.	3.2	15
32	Production of lignin based insoluble polymers (anionic hydrogels) by <i>C. versicolor</i> . <i>Scientific Reports</i> , 2017, 7, 17507.	1.6	16
33	<i>Pulicaria jaubertii</i> E. Gamal-Eldin reduces triacylglyceride content and modifies cellular antioxidant pathways in 3T3-L1 adipocytes. <i>Chemico-Biological Interactions</i> , 2016, 253, 48-59.	1.7	3
34	Diffusion of tebuconazole into softwood under ambient conditions and its distribution in freshly treated and aged wood. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 1257-1266.	2.5	2
35	An Approach to the Estimation of Adsorption Enthalpies of Polycyclic Aromatic Hydrocarbons on Particle Surfaces. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6029-6038.	1.1	7
36	Biodegradation of lignin by fungi, bacteria and laccases. <i>Bioresource Technology</i> , 2016, 220, 414-424.	4.8	90

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37	Thermal Liquefaction of Lignin to Aromatics: Efficiency, Selectivity, and Product Analysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 5106-5122.	3.2	82
38	Determination of trans-resveratrol and its metabolites in rat serum using liquid chromatography with high-resolution time of flight mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1039, 35-43.	1.2	9
39	Identification of products formed during the heterogeneous nitration and ozonation of polycyclic aromatic hydrocarbons. Atmospheric Environment, 2016, 128, 92-103.	1.9	43
40	Detection of nitrated and oxygenated polycyclic aromatic hydrocarbons using atmospheric pressure chemical ionization high resolution mass spectrometry. International Journal of Mass Spectrometry, 2016, 397-398, 6-17.	0.7	16
41	Optimizing the Production of Renewable Aromatics via Crop Oil Catalytic Cracking. Processes, 2015, 3, 222-234.	1.3	8
42	Pressurised fluid extraction of polycyclic aromatic hydrocarbons and their polar oxidation products from atmospheric particles. International Journal of Environmental Analytical Chemistry, 2015, 95, 434-452.	1.8	12
43	Novel Two-Step Process for the Production of Renewable Aromatic Hydrocarbons from Triacylglycerides. Industrial & Engineering Chemistry Research, 2015, 54, 9657-9665.	1.8	22
44	Determination of Celecoxib in human plasma using liquid chromatography with high resolution time of flight-mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 955-956, 86-92.	1.2	9
45	The occurrence of polycyclic aromatic hydrocarbons and their derivatives and the proinflammatory potential of fractionated extracts of diesel exhaust and wood smoke particles. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 383-396.	0.9	43
46	Evaluation of microbial triglyceride oil purification requirements for the CelTherm process: an efficient biochemical pathway to renewable fuels and chemicals. Bioprocess and Biosystems Engineering, 2014, 37, 2121-2129.	1.7	2
47	Kenaf biomass biodecomposition by basidiomycetes and actinobacteria in submerged fermentation for production of carbohydrates and phenolic compounds. Bioresource Technology, 2014, 173, 352-360.	4.8	20
48	Non-catalytic cracking of jojoba oil to produce fuel and chemical by-products. Industrial Crops and Products, 2013, 43, 386-392.	2.5	39
49	Evaluation of sequential solvent and thermal extraction followed by analytical pyrolysis for chemical characterization of carbonaceous particulate matter. Journal of Chromatography A, 2013, 1279, 27-35.	1.8	7
50	Developing and Implementing an Interdisciplinary Air Pollution Workshop To Reach and Engage Rural High School Students in Science. Journal of Chemical Education, 2013, 90, 417-422.	1.1	10
51	Triacylglyceride Thermal Cracking: Pathways to Cyclic Hydrocarbons. Energy & Fuels, 2012, 26, 672-685.	2.5	72
52	Differential effects of the particle core and organic extract of diesel exhaust particles. Toxicology Letters, 2012, 208, 262-268.	0.4	89
53	Extraction of Fatty Acids from Noncatalytically Cracked Triacylglycerides with Water and Aqueous Sodium Hydroxide. Separation Science and Technology, 2012, 47, 66-72.	1.3	8
54	Method development for the characterization of biofuel intermediate products using gas chromatography with simultaneous mass spectrometric and flame ionization detections. Journal of Chromatography A, 2012, 1224, 79-88.	1.8	30

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55	Method development for the determination of wood preservatives in commercially treated wood using gas chromatography–mass spectrometry. <i>Analytica Chimica Acta</i> , 2011, 702, 205-212.	2.6	13
56	New path in the thermal cracking of triacylglycerols (canola and soybean oil). <i>Fuel</i> , 2011, 90, 2598-2608.	3.4	99
57	Limits of detection for the determination of mono- and dicarboxylic acids using gas and liquid chromatographic methods coupled with mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 1429-1438.	1.2	26
58	Extraction of Fatty Acids from Noncatalytically Cracked Triacylglycerides Using Aqueous Amines. <i>Separation Science and Technology</i> , 2011, 46, 2167-2173.	1.3	7
59	Detection limits of electron and electron capture negative ionization-mass spectrometry for aldehydes derivatized with <i>o</i> -(2,3,4,5,6-pentafluorobenzyl)-hydroxylamine hydrochloride. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 592-602.	1.2	14
60	The thermal cracking of soybean/canola oils and their methyl esters. <i>Fuel Processing Technology</i> , 2010, 91, 613-617.	3.7	67
61	The thermal cracking of canola and soybean methyl esters: Improvement of cold flow properties. <i>Biomass and Bioenergy</i> , 2010, 34, 939-946.	2.9	53
62	Extractable Organic Carbon and its Differentiation by Polarity in Diesel Exhaust, Wood Smoke, and Urban Particulate Matter. <i>Aerosol Science and Technology</i> , 2009, 43, 714-729.	1.5	16
63	Critical factors in chemical characterization for the evaluation of decontamination in solids using advanced oxidation. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009, 44, 1052-1068.	0.9	4
64	Evaluation of solid-phase microextraction methods for determination of trace concentration aldehydes in aqueous solution. <i>Journal of Chromatography A</i> , 2008, 1209, 44-54.	1.8	76
65	Analysis of HNE metabolism in CNS models. <i>Redox Report</i> , 2007, 12, 16-19.	1.4	4
66	Astrocytic Biotransformation of trans-4-Hydroxy-2-nonenal Is Dose-Dependent. <i>Chemical Research in Toxicology</i> , 2006, 19, 844-851.	1.7	21
67	Midpolarity and Nonpolar Wood Smoke Particulate Matter Fractions Deplete Glutathione in RAW 264.7 Macrophages. <i>Chemical Research in Toxicology</i> , 2006, 19, 255-261.	1.7	43
68	GENOTOXICITY OF POLAR FRACTIONS FROM A HERBICIDE-CONTAMINATED SOIL DOES NOT CORRESPOND TO PARENT CONTAMINANTS. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 1742.	2.2	5
69	Enantioselective metabolism of trans-4-hydroxy-2-nonenal by brain mitochondria. <i>Free Radical Biology and Medicine</i> , 2005, 39, 913-924.	1.3	27
70	Persistence and Biodegradation of Monoethanolamine and 2-Propanolamine at an Abandoned Industrial Site. <i>Environmental Science &amp; Technology</i> , 2005, 39, 3639-3645.	4.6	28
71	TOXICITY OF WIDE-RANGE POLARITY FRACTIONS FROM WOOD SMOKE AND DIESEL EXHAUST PARTICULATE OBTAINED USING HOT PRESSURIZED WATER. <i>Environmental Toxicology and Chemistry</i> , 2004, 23, 2243.	2.2	27
72	Subcritical Water Extraction of Antioxidant Compounds from Rosemary Plants. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 375-382.	2.4	368

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73	Subcritical (Hot/Liquid) Water Dechlorination of PCBs (Aroclor 1254) with Metal Additives and in Waste Paint. Environmental Science & Technology, 2003, 37, 5757-5762.	4.6	37
74	Dechlorination of Lindane, Dieldrin, Tetrachloroethane, Trichloroethene, and PVC in Subcritical Water. Environmental Science & Technology, 2002, 36, 1337-1343.	4.6	80
75	Organic compounds in urban aerosols from Gent, Belgium: Characterization, sources, and seasonal differences. Journal of Geophysical Research, 2002, 107, ICC 5-1-ICC 5-12.	3.3	57
76	Zero-valent metal accelerators for the dechlorination of pentachlorophenol (PCP) in subcritical water. Green Chemistry, 2002, 4, 17-23.	4.6	24
77	Thermodynamic and kinetic models for the extraction of essential oil from savory and polycyclic aromatic hydrocarbons from soil with hot (subcritical) water and supercritical CO <sub>2</sub> . Journal of Chromatography A, 2002, 975, 175-188.	1.8	100
78	Selective extraction of oxygenates from savory and peppermint using subcritical water. Flavour and Fragrance Journal, 2001, 16, 64-73.	1.2	113
79	Comparison of subcritical water and organic solvents for extracting kava lactones from kava root. Journal of Chromatography A, 2001, 923, 187-194.	1.8	106
80	Carbonaceous aerosol characterization in the Amazon basin, Brazil: novel dicarboxylic acids and related compounds. Atmospheric Environment, 2000, 34, 5037-5051.	1.9	80
81	Extracellular oxidative enzyme production and PAH removal in soil by exploratory mycelium of white rot fungi. Biodegradation, 1999, 10, 159-168.	1.5	129
82	Title is missing!. World Journal of Microbiology and Biotechnology, 1999, 15, 269-276.	1.7	23
83	Application of correlation analysis for identification of polychlorinated biphenyls. Journal of Chromatography A, 1996, 752, 197-207.	1.8	9