

Alena Kubatova

List of Publications by Citations

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

82
papers

2,249
citations

25
h-index

45
g-index

84
ext. papers

2,569
ext. citations

5.3
avg, IF

4.78
L-index

#	Paper	IF	Citations
82	Subcritical water extraction of antioxidant compounds from rosemary plants. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 375-82	5.7	314
81	Extracellular oxidative enzyme production and PAH removal in soil by exploratory mycelium of white rot fungi. <i>Biodegradation</i> , 1999 , 10, 159-68	4.1	108
80	Selective extraction of oxygenates from savory and peppermint using subcritical water. <i>Flavour and Fragrance Journal</i> , 2001 , 16, 64-73	2.5	94
79	Comparison of subcritical water and organic solvents for extracting kava lactones from kava root. <i>Journal of Chromatography A</i> , 2001 , 923, 187-94	4.5	94
78	New path in the thermal cracking of triacylglycerols (canola and soybean oil). <i>Fuel</i> , 2011 , 90, 2598-2608	7.1	86
77	Differential effects of the particle core and organic extract of diesel exhaust particles. <i>Toxicology Letters</i> , 2012 , 208, 262-8	4.4	82
76	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 ₂ . <i>Journal of Chromatography A</i> , 2002 , 975, 175-88	4.5	82
75	Carbonaceous aerosol characterization in the Amazon basin, Brazil: novel dicarboxylic acids and related compounds. <i>Atmospheric Environment</i> , 2000 , 34, 5037-5051	5.3	72
74	Biodegradation of lignin by fungi, bacteria and laccases. <i>Bioresource Technology</i> , 2016 , 220, 414-424	11	68
73	Dechlorination of lindane, dieldrin, tetrachloroethane, trichloroethene, and PVC in subcritical water. <i>Environmental Science & Technology</i> , 2002 , 36, 1337-43	10.3	67
72	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	4.5	65
71	Microbial treatment of industrial lignin: Successes, problems and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 77, 1179-1205	16.2	61
70	Thermal Liquefaction of Lignin to Aromatics: Efficiency, Selectivity, and Product Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5106-5122	8.3	60
69	The thermal cracking of soybean/canola oils and their methyl esters. <i>Fuel Processing Technology</i> , 2010 , 91, 613-617	7.2	54
68	Triacylglyceride Thermal Cracking: Pathways to Cyclic Hydrocarbons. <i>Energy & Fuels</i> , 2012 , 26, 672-685	6.5	53
67	Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 343-350	11	50
66	Organic compounds in urban aerosols from Gent, Belgium: Characterization, sources, and seasonal differences. <i>Journal of Geophysical Research</i> , 2002 , 107, ICC 5-1-ICC 5-12		47

65	The thermal cracking of canola and soybean methyl esters: Improvement of cold flow properties. <i>Biomass and Bioenergy</i> , 2010 , 34, 939-946	5.3	44
64	Midpolarity and nonpolar wood smoke particulate matter fractions deplete glutathione in RAW 264.7 macrophages. <i>Chemical Research in Toxicology</i> , 2006 , 19, 255-61	4	41
63	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	8.4	36
62	The occurrence of polycyclic aromatic hydrocarbons and their derivatives and the proinflammatory potential of fractionated extracts of diesel exhaust and wood smoke particles. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014 , 49, 383-96	2.3	36
61	Subcritical (hot/liquid) water dechlorination of PCBs (Aroclor 1254) with metal additives and in waste paint. <i>Environmental Science & Technology</i> , 2003 , 37, 5757-62	10.3	32
60	Identification of products formed during the heterogeneous nitration and ozonation of polycyclic aromatic hydrocarbons. <i>Atmospheric Environment</i> , 2016 , 128, 92-103	5.3	30
59	Non-catalytic cracking of jojoba oil to produce fuel and chemical by-products. <i>Industrial Crops and Products</i> , 2013 , 43, 386-392	5.9	29
58	Method development for the characterization of biofuel intermediate products using gas chromatography with simultaneous mass spectrometric and flame ionization detections. <i>Journal of Chromatography A</i> , 2012 , 1224, 79-88	4.5	27
57	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, 2243-50	3.8	25
56	Enantioselective metabolism of trans-4-hydroxy-2-nonenal by brain mitochondria. <i>Free Radical Biology and Medicine</i> , 2005 , 39, 913-24	7.8	25
55	Persistence and biodegradation of monoethanolamine and 2-propanolamine at an abandoned industrial site. <i>Environmental Science & Technology</i> , 2005 , 39, 3639-45	10.3	24
54	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, 1429-38	3.2	22
53	Zero-valent metal accelerators for the dechlorination of pentachlorophenol (PCP) in subcritical water. <i>Green Chemistry</i> , 2002 , 4, 17-23	10	22
52	Degradation of polychlorinated biphenyls by extracellular enzymes of <i>Phanerochaete chrysosporium</i> produced in a perforated plate bioreactor. <i>World Journal of Microbiology and Biotechnology</i> , 1999 , 15, 269-276	4.4	22
51	Astrocytic biotransformation of trans-4-hydroxy-2-nonenal is dose-dependent. <i>Chemical Research in Toxicology</i> , 2006 , 19, 844-51	4	21
50	Size exclusion chromatography of lignin: The mechanistic aspects and elimination of undesired secondary interactions. <i>Journal of Chromatography A</i> , 2018 , 1534, 101-110	4.5	19
49	Effect of granular activated carbon and other porous materials on thermal decomposition of per- and polyfluoroalkyl substances: Mechanisms and implications for water purification. <i>Water Research</i> , 2021 , 200, 117271	12.5	19
48	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,	6.3	16

47	Kenaf biomass biodecomposition by basidiomycetes and actinobacteria in submerged fermentation for production of carbohydrates and phenolic compounds. <i>Bioresource Technology</i> , 2014 , 173, 352-360	11	16
46	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	3.4	15
45	Production of lignin based insoluble polymers (anionic hydrogels) by <i>C. versicolor</i> . <i>Scientific Reports</i> , 2017 , 7, 17507	4.9	14
44	Novel Two-Step Process for the Production of Renewable Aromatic Hydrocarbons from Triacylglycerides. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 9657-9665	3.9	13
43	Detection of nitrated and oxygenated polycyclic aromatic hydrocarbons using atmospheric pressure chemical ionization high resolution mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2016 , 397-398, 6-17	1.9	13
42	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	3.5	13
41	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	3.5	12
40	Method development for the determination of wood preservatives in commercially treated wood using gas chromatography-mass spectrometry. <i>Analytica Chimica Acta</i> , 2011 , 702, 205-12	6.6	12
39	Highly Selective Hydroboration of Carbonyls by a Manganese Catalyst: Insight into the Reaction Mechanism. <i>Organometallics</i> , 2020 , 39, 3375-3383	3.8	12
38	Fungal Biotransformation of Insoluble Kraft Lignin into a Water Soluble Polymer. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 6103-6113	3.9	11
37	Simultaneous determination of trace concentrations of aldehydes and carboxylic acids in particulate matter. <i>Journal of Chromatography A</i> , 2018 , 1544, 49-61	4.5	10
36	Fate of triazoles in softwood upon environmental exposure. <i>Chemosphere</i> , 2017 , 184, 261-268	8.4	9
35	Pressurised fluid extraction of polycyclic aromatic hydrocarbons and their polar oxidation products from atmospheric particles. <i>International Journal of Environmental Analytical Chemistry</i> , 2015 , 95, 434-452	1.8	9
34	Developing and Implementing an Interdisciplinary Air Pollution Workshop To Reach and Engage Rural High School Students in Science. <i>Journal of Chemical Education</i> , 2013 , 90, 417-422	2.4	9
33	Thermal Carbon Analysis Enabling Comprehensive Characterization of Lignin and Its Degradation Products. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10334-10341	8.3	8
32	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	2.8	8
31	Determination of Celecoxib in human plasma using liquid chromatography with high resolution time of flight-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014 , 955-956, 86-92	3.2	8
30	Extraction of Fatty Acids from Noncatalytically Cracked Triacylglycerides with Water and Aqueous Sodium Hydroxide. <i>Separation Science and Technology</i> , 2012 , 47, 66-72	2.5	8

29	Evaluation of sequential solvent and thermal extraction followed by analytical pyrolysis for chemical characterization of carbonaceous particulate matter. <i>Journal of Chromatography A</i> , 2013 , 1279, 27-35	4.5	7
28	Optimizing the Production of Renewable Aromatics via Crop Oil Catalytic Cracking. <i>Processes</i> , 2015 , 3, 222-234	2.9	7
27	Extraction of Fatty Acids from Noncatalytically Cracked Triacylglycerides Using Aqueous Amines. <i>Separation Science and Technology</i> , 2011 , 46, 2167-2173	2.5	7
26	Thermal Decomposition of PFAS: Response to Comment on Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon. <i>Environmental Science and Technology Letters</i> , 2021 , 8, 364-365	11	7
25	Influence of early stages of triglyceride pyrolysis on the formation of PAHs as coke precursors. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 20189-20203	3.6	6
24	Application of correlation analysis for identification of polychlorinated biphenyls. <i>Journal of Chromatography A</i> , 1996 , 752, 197-207	4.5	6
23	An Investigation of Thermal Air Degradation and Pyrolysis of Per- and Polyfluoroalkyl Substances and Aqueous Film-Forming Foams in Soil. <i>ACS ES&T Engineering</i> , 2022 , 2, 198-209		6
22	Determination of trans-resveratrol and its metabolites in rat serum using liquid chromatography with high-resolution time of flight mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1039, 35-43	3.2	5
21	Genotoxicity of polar fractions from a herbicide-contaminated soil does not correspond to parent contaminants. <i>Environmental Toxicology and Chemistry</i> , 2006 , 25, 1742-5	3.8	5
20	Atmospheric pressure ionization mass spectrometry as a tool for structural characterization of lignin. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34, e8813	2.2	5
19	Analysis of HNE metabolism in CNS models. <i>Redox Report</i> , 2007 , 12, 16-9	5.9	4
18	An Approach to the Estimation of Adsorption Enthalpies of Polycyclic Aromatic Hydrocarbons on Particle Surfaces. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 6029-38	2.8	4
17	Simultaneous high-temperature gas chromatography with flame ionization and mass spectrometric analysis of monocarboxylic acids and acylglycerols in biofuels and biofuel intermediate products. <i>Journal of Chromatography A</i> , 2019 , 1584, 165-178	4.5	4
16	Effect of dihalides on the polymer linkages in the Cs ₂ CO ₃ -promoted polycondensation of 1 atm carbon dioxide and diols. <i>Materials Today Communications</i> , 2019 , 18, 100-109	2.5	4
15	Metformin Uptake and Translocation in Chickpeas: Determination Using Liquid Chromatography-Mass Spectrometry. <i>ACS Omega</i> , 2020 , 5, 1789-1795	3.9	3
14	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, 1052-68	2.3	3
13	Metabolism of cyclic phenones in rainbow trout assays. <i>Xenobiotica</i> , 2020 , 50, 192-208	2	3
12	Evaluation of microbial triglyceride oil purification requirements for the CelTherm process: an efficient biochemical pathway to renewable fuels and chemicals. <i>Bioprocess and Biosystems Engineering</i> , 2014 , 37, 2121-9	3.7	2

11	Pathways toward PAH Formation during Fatty Acid and Triglyceride Pyrolysis. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 7559-7574	2.8	2
10	<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	5	2
9	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	4.9	2
8	The extent of tebuconazole leaching from unpainted and painted softwood. <i>Science of the Total Environment</i> , 2018 , 633, 1379-1385	10.2	2
7	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019 , 1126-1127, 121717	3.2	1
6	Occurrence of both nonvolatile and semivolatile carbonaceous air particulate markers using thermal desorption-pyrolysis-gas chromatography-mass spectrometry. <i>Atmospheric Environment</i> , 2021 , 246, 118058	5.3	1
5	An Initial Study of the Catalytic Reforming of Crop Oil-Derived 1-Alkenes with HZSM-5 to Aromatic Hydrocarbons. <i>JAOCs, Journal of the American Oil Chemists Society</i> , 2018 , 95, 1201-1211	1.8	1
4	Hybrid Synthetic and Computational Study of an Optimized, Solvent-Free Approach to Curcuminoids. <i>ACS Omega</i> , 2022 , 7, 7257-7277	3.9	0
3	Optimization of Electrospray Ionization for Liquid Chromatography Time-of-Flight Mass Spectrometry Analysis of Preservatives in Wood Leachate Matrix. <i>Chromatographia</i> , 2019 , 82, 1677-1685 ^{2.1}		
2	Reply to "The Novelty of a Two-Step Aromatization Process" <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 4191-4191	3.9	
1	Quantitative insights on de/repolymerization and deoxygenation of lignin in subcritical water. <i>Bioresource Technology</i> , 2021 , 342, 125974	11	