

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	Subcritical Water Extraction of Antioxidant Compounds from Rosemary Plants. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 375-382.	2.4	368
2	Extracellular oxidative enzyme production and PAH removal in soil by exploratory mycelium of white rot fungi. <i>Biodegradation</i> , 1999, 10, 159-168.	1.5	129
3	Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon. <i>Environmental Science and Technology Letters</i> , 2020, 7, 343-350.	3.9	127
4	Selective extraction of oxygenates from savory and peppermint using subcritical water. <i>Flavour and Fragrance Journal</i> , 2001, 16, 64-73.	1.2	113
5	Comparison of subcritical water and organic solvents for extracting kava lactones from kava root. <i>Journal of Chromatography A</i> , 2001, 923, 187-194.	1.8	106
6	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, 175-188.	1.8	100
7	New path in the thermal cracking of triacylglycerols (canola and soybean oil). <i>Fuel</i> , 2011, 90, 2598-2608.	3.4	99
8	Biodegradation of lignin by fungi, bacteria and laccases. <i>Bioresource Technology</i> , 2016, 220, 414-424.	4.8	90
9	Differential effects of the particle core and organic extract of diesel exhaust particles. <i>Toxicology Letters</i> , 2012, 208, 262-268.	0.4	89
10	Microbial treatment of industrial lignin: Successes, problems and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 1179-1205.	8.2	85
11	Thermal Liquefaction of Lignin to Aromatics: Efficiency, Selectivity, and Product Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5106-5122.	3.2	82
12	Carbonaceous aerosol characterization in the Amazon basin, Brazil: novel dicarboxylic acids and related compounds. <i>Atmospheric Environment</i> , 2000, 34, 5037-5051.	1.9	80
13	Dechlorination of Lindane, Dieldrin, Tetrachloroethane, Trichloroethene, and PVC in Subcritical Water. <i>Environmental Science & Technology</i> , 2002, 36, 1337-1343.	4.6	80
14	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
15	Triacylglyceride Thermal Cracking: Pathways to Cyclic Hydrocarbons. <i>Energy & Fuels</i> , 2012, 26, 672-685.	2.5	72
16	The thermal cracking of soybean/canola oils and their methyl esters. <i>Fuel Processing Technology</i> , 2010, 91, 613-617.	3.7	67
17	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.	3.3	57
18	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

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19	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
20	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.	5.3	48
21	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
22	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, 383-396.	0.9	43
23	Identification of products formed during the heterogeneous nitration and ozonation of polycyclic aromatic hydrocarbons. <i>Atmospheric Environment</i> , 2016, 128, 92-103.	1.9	43
24	Non-catalytic cracking of jojoba oil to produce fuel and chemical by-products. <i>Industrial Crops and Products</i> , 2013, 43, 386-392.	2.5	39
25	Subcritical (Hot/Liquid) Water Dechlorination of PCBs (Aroclor 1254) with Metal Additives and in Waste Paint. <i>Environmental Science & Technology</i> , 2003, 37, 5757-5762.	4.6	37
26	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.	3.7	35
27	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
28	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.	1.8	30
29	Persistence and Biodegradation of Monoethanolamine and 2-Propanolamine at an Abandoned Industrial Site. <i>Environmental Science & Technology</i> , 2005, 39, 3639-3645.	4.6	28
30	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
31	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
32	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
33	Zero-valent metal accelerators for the dechlorination of pentachlorophenol (PCP) in subcritical water. <i>Green Chemistry</i> , 2002, 4, 17-23.	4.6	24
34	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 1999, 15, 269-276.	1.7	23
35	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
36	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

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37	Novel Two-Step Process for the Production of Renewable Aromatic Hydrocarbons from Triacylglycerides. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9657-9665.	1.8	22
38	Highly Selective Hydroboration of Carbonyls by a Manganese Catalyst: Insight into the Reaction Mechanism. <i>Organometallics</i> , 2020, 39, 3375-3383.	1.1	22
39	Astrocytic Biotransformation of trans-4-Hydroxy-2-nonenal Is Dose-Dependent. <i>Chemical Research in Toxicology</i> , 2006, 19, 844-851.	1.7	21
40	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.	4.8	20
41	Fungal Biotransformation of Insoluble Kraft Lignin into a Water Soluble Polymer. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6103-6113.	1.8	20
42	The first quantitative investigation of compounds generated from PFAS, PFAS-containing aqueous film-forming foams and commercial fluorosurfactants in pyrolytic processes. <i>Journal of Hazardous Materials</i> , 2022, 436, 129313.	6.5	17
43	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
44	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.	0.7	16
45	Production of lignin based insoluble polymers (anionic hydrogels) by <i>C. versicolor</i> . <i>Scientific Reports</i> , 2017, 7, 17507.	1.6	16
46	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
47	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
48	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.	3.9	15
49	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
50	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
51	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
52	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.	1.3	13
53	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	12
54	Fate of triazoles in softwood upon environmental exposure. <i>Chemosphere</i> , 2017, 184, 261-268.	4.2	11

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55	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.	1.1	10
56	Application of correlation analysis for identification of polychlorinated biphenyls. <i>Journal of Chromatography A</i> , 1996, 752, 197-207.	1.8	9
57	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.	1.2	9
58	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.	1.2	9
59	Extraction of Fatty Acids from Noncatalytically Cracked Triacylglycerides with Water and Aqueous Sodium Hydroxide. <i>Separation Science and Technology</i> , 2012, 47, 66-72.	1.3	8
60	Optimizing the Production of Renewable Aromatics via Crop Oil Catalytic Cracking. <i>Processes</i> , 2015, 3, 222-234.	1.3	8
61	Atmospheric pressure ionization mass spectrometry as a tool for structural characterization of lignin. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8813.	0.7	8
62	Extraction of Fatty Acids from Noncatalytically Cracked Triacylglycerides Using Aqueous Amines. <i>Separation Science and Technology</i> , 2011, 46, 2167-2173.	1.3	7
63	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.	1.8	7
64	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
65	Metabolism of cyclic phenones in rainbow trout in vitro assays. <i>Xenobiotica</i> , 2020, 50, 115-131.	0.5	7
66	Metformin Uptake and Translocation in Chickpeas: Determination Using Liquid Chromatography-Mass Spectrometry. <i>ACS Omega</i> , 2020, 5, 1789-1795.	1.6	7
67	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.	0.9	6
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	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.	1.8	5
70	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.	1.9	5
71	Analysis of HNE metabolism in CNS models. <i>Redox Report</i> , 2007, 12, 16-19.	1.4	4
72	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

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73	Pathways toward PAH Formation during Fatty Acid and Triglyceride Pyrolysis. <i>Journal of Physical Chemistry A</i> , 2020, 124, 7559-7574.	1.1	4
74	<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
75	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.	0.8	3
76	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.	1.2	3
77	Hybrid Synthetic and Computational Study of an Optimized, Solvent-Free Approach to Curcuminoids. <i>ACS Omega</i> , 2022, 7, 7257-7277.	1.6	3
78	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, 2121-2129.	1.7	2
79	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
80	The extent of tebuconazole leaching from unpainted and painted softwood. <i>Science of the Total Environment</i> , 2018, 633, 1379-1385.	3.9	2
81	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.	0.7	1
82	Quantitative insights on de/repolymerization and deoxygenation of lignin in subcritical water. <i>Bioresource Technology</i> , 2021, 342, 125974.	4.8	1
83	Reply to "The Novelty of a Two-Step Aromatization Process". <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4191-4191.	1.8	0