Alena Kubatova

List of Publications by Year
in descending order

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83	2,917	186265	175258
papers	citations	28 h-index	52 g-index

84	84	84	3422
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Subcritical Water Extraction of Antioxidant Compounds from Rosemary Plants. Journal of Agricultural and Food Chemistry, 2003, 51, 375-382.	5.2	368
2	Extracellular oxidative enzyme production and PAH removal in soil by exploratory mycelium of white rot fungi. Biodegradation, 1999, 10, 159-168.	3.0	129
3	Thermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbon. Environmental Science and Technology Letters, 2020, 7, 343-350.	8.7	127
4	Selective extraction of oxygenates from savory and peppermint using subcritical water. Flavour and Fragrance Journal, 2001, 16, 64-73.	2.6	113
5	Comparison of subcritical water and organic solvents for extracting kava lactones from kava root. Journal of Chromatography A, 2001, 923, 187-194.	3.7	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 CO2. Journal of Chromatography A, 2002, 975, 175-188.	3.7	100
7	New path in the thermal cracking of triacylglycerols (canola and soybean oil). Fuel, 2011, 90, 2598-2608.	6.4	99
8	Biodegradation of lignin by fungi, bacteria and laccases. Bioresource Technology, 2016, 220, 414-424.	9.6	90
9	Differential effects of the particle core and organic extract of diesel exhaust particles. Toxicology Letters, 2012, 208, 262-268.	0.8	89
10	Microbial treatment of industrial lignin: Successes, problems and challenges. Renewable and Sustainable Energy Reviews, 2017, 77, 1179-1205.	16.4	85
11	Thermal Liquefaction of Lignin to Aromatics: Efficiency, Selectivity, and Product Analysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 5106-5122.	6.7	82
12	Carbonaceous aerosol characterization in the Amazon basin, Brazil: novel dicarboxylic acids and related compounds. Atmospheric Environment, 2000, 34, 5037-5051.	4.1	80
13	Dechlorination of Lindane, Dieldrin, Tetrachloroethane, Trichloroethene, and PVC in Subcritical Water. Environmental Science & Technology, 2002, 36, 1337-1343.	10.0	80
14	Evaluation of solid-phase microextraction methods for determination of trace concentration aldehydes in aqueous solution. Journal of Chromatography A, 2008, 1209, 44-54.	3.7	76
15	Triacylglyceride Thermal Cracking: Pathways to Cyclic Hydrocarbons. Energy & Fuels, 2012, 26, 672-685.	5.1	72
16	The thermal cracking of soybean/canola oils and their methyl esters. Fuel Processing Technology, 2010, 91, 613-617.	7.2	67
17	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
18	The thermal cracking of canola and soybean methyl esters: Improvement of cold flow properties. Biomass and Bioenergy, 2010, 34, 939-946.	5.7	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). Particle and Fibre Toxicology, 2018, 15, 21.	6.2	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. Water Research, 2021, 200, 117271.	11.3	48
21	Midpolarity and Nonpolar Wood Smoke Particulate Matter Fractions Deplete Glutathione in RAW 264.7 Macrophages. Chemical Research in Toxicology, 2006, 19, 255-261.	3.3	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. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 383-396.	1.7	43
23	Identification of products formed during the heterogeneous nitration and ozonation of polycyclic aromatic hydrocarbons. Atmospheric Environment, 2016, 128, 92-103.	4.1	43
24	Non-catalytic cracking of jojoba oil to produce fuel and chemical by-products. Industrial Crops and Products, 2013, 43, 386-392.	5.2	39
25	Subcritical (Hot/Liquid) Water Dechlorination of PCBs (Aroclor 1254) with Metal Additives and in Waste Paint. Environmental Science & Technology, 2003, 37, 5757-5762.	10.0	37
26	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.	7.6	35
27	Size exclusion chromatography of lignin: The mechanistic aspects and elimination of undesired secondary interactions. Journal of Chromatography A, 2018, 1534, 101-110.	3.7	32
28	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.	3.7	30
29	Persistence and Biodegradation of Monoethanolamine and 2-Propanolamine at an Abandoned Industrial Site. Environmental Science & Technology, 2005, 39, 3639-3645.	10.0	28
30	TOXICITY OF WIDE-RANGE POLARITY FRACTIONS FROM WOOD SMOKE AND DIESEL EXHAUST PARTICULATE OBTAINED USING HOT PRESSURIZED WATER. Environmental Toxicology and Chemistry, 2004, 23, 2243.	4.3	27
31	Enantioselective metabolism of trans-4-hydroxy-2-nonenal by brain mitochondria. Free Radical Biology and Medicine, 2005, 39, 913-924.	2.9	27
32	Limits of detection for the determination of mono- and dicarboxylic acids using gas and liquid chromatographic methods coupled with mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 1429-1438.	2.3	26
33	Zero-valent metal accelerators for the dechlorination of pentachlorophenol (PCP) in subcritical water. Green Chemistry, 2002, 4, 17-23.	9.0	24
34	Title is missing!. World Journal of Microbiology and Biotechnology, 1999, 15, 269-276.	3.6	23
35	Electrospray Ionization with High-Resolution Mass Spectrometry as a Tool for Lignomics: Lignin Mass Spectrum Deconvolution. Journal of the American Society for Mass Spectrometry, 2018, 29, 1044-1059.	2.8	23
36	Lipophilic Chemicals from Diesel Exhaust Particles Trigger Calcium Response in Human Endothelial Cells via Aryl Hydrocarbon Receptor Non-Genomic Signalling. International Journal of Molecular Sciences, 2018, 19, 1429.	4.1	23

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37	Novel Two-Step Process for the Production of Renewable Aromatic Hydrocarbons from Triacylglycerides. Industrial & Engineering Chemistry Research, 2015, 54, 9657-9665.	3.7	22
38	Highly Selective Hydroboration of Carbonyls by a Manganese Catalyst: Insight into the Reaction Mechanism. Organometallics, 2020, 39, 3375-3383.	2.3	22
39	Astrocytic Biotransformation of trans-4-Hydroxy-2-nonenal Is Dose-Dependent. Chemical Research in Toxicology, 2006, 19, 844-851.	3.3	21
40	Kenaf biomass biodecomposition by basidiomycetes and actinobacteria in submerged fermentation for production of carbohydrates and phenolic compounds. Bioresource Technology, 2014, 173, 352-360.	9.6	20
41	Fungal Biotransformation of Insoluble Kraft Lignin into a Water Soluble Polymer. Industrial & Engineering Chemistry Research, 2017, 56, 6103-6113.	3.7	20
42	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.	12.4	17
43	Extractable Organic Carbon and its Differentiation by Polarity in Diesel Exhaust, Wood Smoke, and Urban Particulate Matter. Aerosol Science and Technology, 2009, 43, 714-729.	3.1	16
44	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.	1.5	16
45	Production of lignin based insoluble polymers (anionic hydrogels) by C. versicolor. Scientific Reports, 2017, 7, 17507.	3.3	16
46	PAH/Aromatic Tar and Coke Precursor Formation in the Early Stages of Triglyceride (Triolein) Pyrolysis. Journal of Physical Chemistry A, 2018, 122, 3238-3249.	2.5	16
47	Thermal Carbon Analysis Enabling Comprehensive Characterization of Lignin and Its Degradation Products. ACS Sustainable Chemistry and Engineering, 2017, 5, 10334-10341.	6.7	15
48	Thermal Decomposition of PFAS: Response to Comment on â€œThermal Stability and Decomposition of Perfluoroalkyl Substances on Spent Granular Activated Carbonâ€• Environmental Science and Technology Letters, 2021, 8, 364-365.	8.7	15
49	Detection limits of electron and electron capture negative ionization-mass spectrometry for aldehydes derivatized with o-(2,3,4,5,6-pentafluorobenzyl)-hydroxylamine hydrochloride. Journal of the American Society for Mass Spectrometry, 2010, 21, 592-602.	2.8	14
50	Method development for the determination of wood preservatives in commercially treated wood using gas chromatographyâ€“mass spectrometry. Analytica Chimica Acta, 2011, 702, 205-212.	5.4	13
51	Simultaneous determination of trace concentrations of aldehydes and carboxylic acids in particulate matter. Journal of Chromatography A, 2018, 1544, 49-61.	3.7	13
52	Influence of early stages of triglyceride pyrolysis on the formation of PAHs as coke precursors. Physical Chemistry Chemical Physics, 2019, 21, 20189-20203.	2.8	13
53	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.	3.3	12
54	Fate of triazoles in softwood upon environmental exposure. Chemosphere, 2017, 184, 261-268.	8.2	11

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55	Developing and Implementing an Interdisciplinary Air Pollution Workshop To Reach and Engage Rural High School Students in Science. Journal of Chemical Education, 2013, 90, 417-422.	2.3	10
56	Application of correlation analysis for identification of polychlorinated biphenyls. Journal of Chromatography A, 1996, 752, 197-207.	3.7	9
57	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.	2.3	9
58	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.	2.3	9
59	Extraction of Fatty Acids from Noncatalytically Cracked Triacylglycerides with Water and Aqueous Sodium Hydroxide. Separation Science and Technology, 2012, 47, 66-72.	2.5	8
60	Optimizing the Production of Renewable Aromatics via Crop Oil Catalytic Cracking. Processes, 2015, 3, 222-234.	2.8	8
61	Atmospheric pressure ionization mass spectrometry as a tool for structural characterization of lignin. Rapid Communications in Mass Spectrometry, 2020, 34, e8813.	1.5	8
62	Extraction of Fatty Acids from Noncatalytically Cracked Triacylglycerides Using Aqueous Amines. Separation Science and Technology, 2011, 46, 2167-2173.	2.5	7
63	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.	3.7	7
64	An Approach to the Estimation of Adsorption Enthalpies of Polycyclic Aromatic Hydrocarbons on Particle Surfaces. Journal of Physical Chemistry A, 2016, 120, 6029-6038.	2.5	7
65	Metabolism of cyclic phenones in rainbow trout in vitro assays. Xenobiotica, 2020, 50, 115-131.	1.1	7
66	Metformin Uptake and Translocation in Chickpeas: Determination Using Liquid Chromatographyâ€“Mass Spectrometry. ACS Omega, 2020, 5, 1789-1795.	3.5	7
67	Effect of dihalides on the polymer linkages in the Cs2CO3-promoted polycondensation of 1 atm carbon dioxide and diols. Materials Today Communications, 2019, 18, 100-109.	1.9	6
68	GENOTOXICITY OF POLAR FRACTIONS FROM A HERBICIDE-CONTAMINATED SOIL DOES NOT CORRESPOND TO PARENT CONTAMINANTS. Environmental Toxicology and Chemistry, 2006, 25, 1742.	4.3	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. Journal of Chromatography A, 2019, 1584, 165-178.	3.7	5
70	Occurrence of both nonvolatile and semivolatile carbonaceous air particulate markers using thermal desorption-pyrolysis-gas chromatography-mass spectrometry. Atmospheric Environment, 2021, 246, 118058.	4.1	5
71	Analysis of HNE metabolism in CNS models. Redox Report, 2007, 12, 16-19.	4.5	4
72	Critical factors in chemical characterization for the evaluation of decontamination in solids using advanced oxidation. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2009, 44, 1052-1068.	1.7	4

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73	Pathways toward PAH Formation during Fatty Acid and Triglyceride Pyrolysis. Journal of Physical Chemistry A, 2020, 124, 7559-7574.	2.5	4
74	Pulicaria jaubertii E. Gamal-Eldin reduces triacylglyceride content and modifies cellular antioxidant pathways in 3T3-L1 adipocytes. Chemico-Biological Interactions, 2016, 253, 48-59.	4.0	3
75	An Initial Study of the Catalytic Reforming of Crop Oilâ€Derived 1â€Alkenes with HZSMâ€5 to Aromatic Hydrocarbons. JAOCS, Journal of the American Oil Chemists' Society, 2018, 95, 1201-1211.	1.9	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. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1126-1127, 121717.	2.3	3
77	Hybrid Synthetic and Computational Study of an Optimized, Solvent-Free Approach to Curcuminoids. ACS Omega, 2022, 7, 7257-7277.	3.5	3
78	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.	3.4	2
79	Diffusion of tebuconazole into softwood under ambient conditions and its distribution in freshly treated and aged wood. International Journal of Heat and Mass Transfer, 2016, 102, 1257-1266.	4.8	2
80	The extent of tebuconazole leaching from unpainted and painted softwood. Science of the Total Environment, 2018, 633, 1379-1385.	8.0	2
81	Optimization of Electrospray Ionization for Liquid Chromatography Time-of-Flight Mass Spectrometry Analysis of Preservatives in Wood Leachate Matrix. Chromatographia, 2019, 82, 1677-1685.	1.3	1
82	Quantitative insights on de/repolymerization and deoxygenation of lignin in subcritical water. Bioresource Technology, 2021, 342, 125974.	9.6	1
83	Reply to â€œThe Novelty of a Two-Step Aromatization Processâ€• Industrial & Engineering Chemistry Research, 2021, 60, 4191-4191.	3.7	0