Evguenii I Kozliak

List of Publications by Year
in descending order

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56 papers	910 citations	516215 16 h-index	476904 29 g-index
56 all docs	56 docs citations	56 times ranked	1216 citing authors

#	Article	IF	Citations
1	New path in the thermal cracking of triacylglycerols (canola and soybean oil). Fuel, 2011, 90, 2598-2608.	3.4	99
2	Biodegradation of lignin by fungi, bacteria and laccases. Bioresource Technology, 2016, 220, 414-424.	4.8	90
3	AROMATIZATION OF PROPYLENE OVER HZSM-5: A DESIGN OF EXPERIMENTS (DOE) APPROACH. Chemical Engineering Communications, 2013, 200, 1039-1056.	1.5	83
4	Thermal Liquefaction of Lignin to Aromatics: Efficiency, Selectivity, and Product Analysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 5106-5122.	3.2	82
5	Triacylglyceride Thermal Cracking: Pathways to Cyclic Hydrocarbons. Energy & Fuels, 2012, 26, 672-685.	2.5	72
6	Distinguishing Enolic and Carbonyl Components in the Mechanism of Carboxylic Acid Ketonization on Monoclinic Zirconia. ACS Catalysis, 2012, 2, 1555-1562.	5.5	46
7	Size exclusion chromatography of lignin: The mechanistic aspects and elimination of undesired secondary interactions. Journal of Chromatography A, 2018, 1534, 101-110.	1.8	32
8	Morphological changes of lignin during separation of wheat straw components by the hydrothermal-ethanol method. Bioresource Technology, 2019, 294, 122157.	4.8	26
9	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.	1.2	23
10	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
11	Fungal Biotransformation of Insoluble Kraft Lignin into a Water Soluble Polymer. Industrial & Engineering Chemistry Research, 2017, 56, 6103-6113.	1.8	20
12	Styrene Biofiltration Using Two Packing Materials with Different Adsorption Properties. Environmental Engineering Science, 2009, 26, 195-208.	0.8	19
13	Introduction of Entropy via the Boltzmann Distribution in Undergraduate Physical Chemistry: A Molecular Approach. Journal of Chemical Education, 2004, 81, 1595.	1.1	18
14	A Grapheneâ€Based Coaxial Fibrous Photofuel Cell Powered by Mine Gas. Advanced Functional Materials, 2019, 29, 1906813.	7.8	18
15	Consistent Application of the Boltzmann Distribution to Residual Entropy in Crystals. Journal of Chemical Education, 2007, 84, 493.	1.1	16
16	Biofiltration of a styrene/acetone vapor mixture in two reactor types under conditions of acetone overloading. Journal of Chemical Technology and Biotechnology, 2012, 87, 772-777.	1.6	16
17	Production of lignin based insoluble polymers (anionic hydrogels) by C. versicolor. Scientific Reports, 2017, 7, 17507.	1.6	16
18	PAH/Aromatic Tar and Coke Precursor Formation in the Early Stages of Triglyceride (Triolein) Pyrolysis. Journal of Physical Chemistry A, 2018, 122, 3238-3249.	1.1	16

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19	Pore structure and pertinent physical properties of nanofibrillated cellulose (NFC)-based foam materials. Carbohydrate Polymers, 2018, 201, 141-150.	5.1	15
20	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
21	Wheat straw components fractionation, with efficient delignification, by hydrothermal treatment followed by facilitated ethanol extraction. Bioresource Technology, 2020, 316, 123882.	4.8	13
22	Foreword. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 919-919.	0.9	12
23	Effect of Amorphous Silica Nanomatrix on Kinetics of Metalation of Encapsulated Porphyrin Molecules. Journal of Physical Chemistry C, 2009, 113, 19046-19054.	1.5	11
24	Fate of triazoles in softwood upon environmental exposure. Chemosphere, 2017, 184, 261-268.	4.2	11
25	Efficient Steady-State Volatile Organic Compound Removal from Air by Live Bacteria Immobilized on Fiber Supports. Bioremediation Journal, 2000, 4, 81-96.	1.0	10
26	An integrative cellulose-based composite material with controllable structure and properties for solar-driven water evaporation. Cellulose, 2022, 29, 2461-2477.	2.4	10
27	Efficient Extraction of Fuel Oil Hydrocarbons from Wood. Separation Science and Technology, 2008, 43, 778-793.	1.3	8
28	Overcoming Misconceptions about Configurational Entropy in Condensed Phases. Journal of Chemical Education, 2009, 86, 1063.	1.1	8
29	Optimizing the Production of Renewable Aromatics via Crop Oil Catalytic Cracking. Processes, 2015, 3, 222-234.	1.3	8
30	Atmospheric pressure ionization mass spectrometry as a tool for structural characterization of lignin. Rapid Communications in Mass Spectrometry, 2020, 34, e8813.	0.7	8
31	UV-vis and Binding Studies of Cobalt Tetrasulfophthalocyanineâ€“Thiolate Complexes as Intermediates of the Merox Process. Journal of Porphyrins and Phthalocyanines, 1999, 03, 654-666.	0.4	7
32	Monitoring Biodegradation of VOCs Using High-Speed Gas Chromatography with a Dual-Point Sampling System. Environmental Science & Technology, 2001, 35, 1452-1457.	4.6	7
33	An Approach to the Estimation of Adsorption Enthalpies of Polycyclic Aromatic Hydrocarbons on Particle Surfaces. Journal of Physical Chemistry A, 2016, 120, 6029-6038.	1.1	7
34	Aerobic biodegradation of dinitrophenols and their mixture in continuous operations by an immobilized mixed microbial community. Clean Technologies and Environmental Policy, 2015, 17, 287-291.	2.1	5
35	Molecular scale studies that inform trace element sulfide evaporation and atomization behavior during coal combustion. Fuel, 2017, 188, 544-552.	3.4	5
36	Determining the kinetics of sunflower hulls using dilute acid pretreatment in the production of xylose and furfural. Green Processing and Synthesis, 2014, 3, .	1.3	4

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37	Effects of acid hydrolysis waste liquid recycle on preparation of microcrystalline cellulose. Green Processing and Synthesis, 2019, 8, 348-354.	1.3	4
38	Pathways toward PAH Formation during Fatty Acid and Triglyceride Pyrolysis. Journal of Physical Chemistry A, 2020, 124, 7559-7574.	1.1	4
39	Effect of loading types on performance characteristics of a trickle-bed bioreactor and biofilter during styrene/acetone vapor biofiltration. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 1-10.	0.9	3
40	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.	0.8	3
41	Control of structure and properties of cellulose nanofibrils (CNF)-based foam materials by using ethanol additives prior to freeze-drying. Wood Science and Technology, 2019, 53, 837-854.	1.4	3
42	Thermophilic waste air treatment of <i>nâ€<</i>alkanes in a twoâ€phase bubble column reactor: the effect of silicone oil addition. Journal of Chemical Technology and Biotechnology, 2021, 96, 1682-1690.	1.6	3
43	Mercury Removal from Air by a Fiber-Based Bioreactor. Bioremediation Journal, 1999, 3, 291-298.	1.0	2
44	Chemical Education in Countries of the Former Soviet Union. Journal of Chemical Education, 2000, 77, 870.	1.1	2
45	Convenient Chemical Symbols to Illustrate Electronic Excited States. Spectroscopy Letters, 2007, 40, 413-427.	0.5	2
46	The extent of tebuconazole leaching from unpainted and painted softwood. Science of the Total Environment, 2018, 633, 1379-1385.	3.9	2
47	Thermophilic waste air treatment of an airborne ethyl acetate/toluene mixture in a bubble column reactor: Stability towards temperature changes. Journal of Hazardous Materials, 2020, 384, 120744.	6.5	2
48	Citrate as a Flying Bird: Useful Mnemonics in Teaching the TCA Cycle. Journal of Chemical Education, 1999, 76, 1656.	1.1	1
49	Foreword. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2009, 44, 1051-1051.	0.9	1
50	Efficient Extraction of Fuel Oil Hydrocarbons from Concrete. Separation Science and Technology, 2010, 46, 254-264.	1.3	1
51	Evaluation of Trace Element Partitioning during the Initial Phase of Coal Combustion Using GFAAS. ACS Symposium Series, 2011, , 75-101.	0.5	1
52	Entropy of Mixing of Distinguishable Particles. Journal of Chemical Education, 2014, 91, 834-838.	1.1	1
53	Quantitative insights on de/repolymerization and deoxygenation of lignin in subcritical water. Bioresource Technology, 2021, 342, 125974.	4.8	1
54	Energy as Money, Chemical Bonding as Business, and Negative Î”H and Î”G as Investment. Journal of Chemical Education, 2002, 79, 1435.	1.1	0

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55	No "Driving Forces" in General Chemistry. Journal of Chemical Education, 2006, 83, 702.	1.1	0
56	How Wave Interference May Help Explain Wavefunctions and Energy Quantization. Spectroscopy Letters, 2010, 43, 609-617.	0.5	0