

Evguenii I Kozliak

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

910
citations

586496

16
h-index

536525

29
g-index

56
all docs

56
docs citations

56
times ranked

1350
citing authors

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

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

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|----|---|-----|-----------|
| 37 | Effects of acid hydrolysis waste liquid recycle on preparation of microcrystalline cellulose. <i>Green Processing and Synthesis</i> , 2019, 8, 348-354. | 1.3 | 4 |
| 38 | Pathways toward PAH Formation during Fatty Acid and Triglyceride Pyrolysis. <i>Journal of Physical Chemistry A</i> , 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. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 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. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 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. <i>Wood Science and Technology</i> , 2019, 53, 837-854. | 1.4 | 3 |
| 42 | Thermophilic waste air treatment of <i>n</i> -alkanes in a twoâ€phase bubble column reactor: the effect of silicone oil addition. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1682-1690. | 1.6 | 3 |
| 43 | Mercury Removal from Air by a Fiber-Based Bioreactor. <i>Bioremediation Journal</i> , 1999, 3, 291-298. | 1.0 | 2 |
| 44 | Chemical Education in Countries of the Former Soviet Union. <i>Journal of Chemical Education</i> , 2000, 77, 870. | 1.1 | 2 |
| 45 | Convenient Chemical Symbols to Illustrate Electronic Excited States. <i>Spectroscopy Letters</i> , 2007, 40, 413-427. | 0.5 | 2 |
| 46 | The extent of tebuconazole leaching from unpainted and painted softwood. <i>Science of the Total Environment</i> , 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. <i>Journal of Hazardous Materials</i> , 2020, 384, 120744. | 6.5 | 2 |
| 48 | Citrate as a Flying Bird: Useful Mnemonics in Teaching the TCA Cycle. <i>Journal of Chemical Education</i> , 1999, 76, 1656. | 1.1 | 1 |
| 49 | Foreword. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2009, 44, 1051-1051. | 0.9 | 1 |
| 50 | Efficient Extraction of Fuel Oil Hydrocarbons from Concrete. <i>Separation Science and Technology</i> , 2010, 46, 254-264. | 1.3 | 1 |
| 51 | Evaluation of Trace Element Partitioning during the Initial Phase of Coal Combustion Using GFAAS. <i>ACS Symposium Series</i> , 2011, , 75-101. | 0.5 | 1 |
| 52 | Entropy of Mixing of Distinguishable Particles. <i>Journal of Chemical Education</i> , 2014, 91, 834-838. | 1.1 | 1 |
| 53 | Quantitative insights on de/repolymerization and deoxygenation of lignin in subcritical water. <i>Bioresource Technology</i> , 2021, 342, 125974. | 4.8 | 1 |
| 54 | Energy as Money, Chemical Bonding as Business, and Negative \hat{H} and \hat{G} as Investment. <i>Journal of Chemical Education</i> , 2002, 79, 1435. | 1.1 | 0 |

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