

Eric M Karp

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,776
citations

331670

21
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

4243
citing authors

#	ARTICLE	IF	CITATIONS
1	Separation of bio-based glucaric acid <i>via</i> antisolvent crystallization and azeotropic drying. <i>Green Chemistry</i> , 2022, 24, 1350-1361.	9.0	4
2	Toward low-cost biological and hybrid biological/catalytic conversion of cellulosic biomass to fuels. <i>Energy and Environmental Science</i> , 2022, 15, 938-990.	30.8	93
3	Recovery of low molecular weight compounds from alkaline pretreatment liquor <i>via</i> membrane separations. <i>Green Chemistry</i> , 2022, 24, 3152-3166.	9.0	8
4	Energy and techno-economic analysis of bio-based carboxylic acid recovery by adsorption. <i>Green Chemistry</i> , 2021, 23, 4386-4402.	9.0	8
5	Process intensification for the biological production of the fuel precursor butyric acid from biomass. <i>Cell Reports Physical Science</i> , 2021, 2, 100587.	5.6	12
6	<i>In situ</i> product recovery of bio-based ethyl esters <i>via</i> hybrid extraction-distillation. <i>Green Chemistry</i> , 2019, 21, 5306-5315.	9.0	5
7	Demonstration of parallel algal processing: production of renewable diesel blendstock and a high-value chemical intermediate. <i>Green Chemistry</i> , 2018, 20, 457-468.	9.0	30
8	Catalytic amino acid production from biomass-derived intermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5093-5098.	7.1	168
9	<i>In situ</i> recovery of bio-based carboxylic acids. <i>Green Chemistry</i> , 2018, 20, 1791-1804.	9.0	63
10	Emulsion polymerization of acrylonitrile in aqueous methanol. <i>Green Chemistry</i> , 2018, 20, 5299-5310.	9.0	8
11	Post-Fermentation Recovery of Biobased Carboxylic Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15273-15283.	6.7	29
12	Renewable acrylonitrile production. <i>Science</i> , 2017, 358, 1307-1310.	12.6	122
13	The Techno-Economic Basis for Coproduct Manufacturing To Enable Hydrocarbon Fuel Production from Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3196-3211.	6.7	121
14	Quantification of acidic compounds in complex biomass-derived streams. <i>Green Chemistry</i> , 2016, 18, 4750-4760.	9.0	38
15	Reductive Catalytic Fractionation of Corn Stover Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6940-6950.	6.7	235
16	Gradient Elution Moving Boundary Electrophoresis Enables Rapid Analysis of Acids in Complex Biomass-Derived Streams. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 7175-7185.	6.7	8
17	Energetics of methanol and formic acid oxidation on Pt(111): Mechanistic insights from adsorption calorimetry. <i>Surface Science</i> , 2016, 650, 140-143.	1.9	17
18	Opportunities and challenges in biological lignin valorization. <i>Current Opinion in Biotechnology</i> , 2016, 42, 40-53.	6.6	517

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19	Towards lignin consolidated bioprocessing: simultaneous lignin depolymerization and product generation by bacteria. <i>Green Chemistry</i> , 2015, 17, 4951-4967.	9.0	298
20	Adipic acid production from lignin. <i>Energy and Environmental Science</i> , 2015, 8, 617-628.	30.8	499
21	Alkaline Pretreatment of Corn Stover: Bench-Scale Fractionation and Stream Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1481-1491.	6.7	109
22	Lignin valorization through integrated biological funneling and chemical catalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12013-12018.	7.1	652
23	Bond Energies of Molecular Fragments to Metal Surfaces Track Their Bond Energies to H Atoms. <i>Journal of the American Chemical Society</i> , 2014, 136, 4137-4140.	13.7	25
24	Energetics of Formic Acid Conversion to Adsorbed Formates on Pt(111) by Transient Calorimetry. <i>Journal of the American Chemical Society</i> , 2014, 136, 3964-3971.	13.7	44
25	Energetics of Adsorbed CH ₃ on Pt(111) by Calorimetry. <i>Journal of the American Chemical Society</i> , 2013, 135, 5208-5211.	13.7	33
26	Surface kinetics and energetics from single crystal adsorption calorimetry lineshape analysis: Methyl from methyl iodide on Pt(111). <i>Journal of Catalysis</i> , 2013, 308, 114-121.	6.2	11
27	Structure-activity relationships in NH ₃ -SCR over Cu-SSZ-13 as probed by reaction kinetics and EPR studies. <i>Journal of Catalysis</i> , 2013, 300, 20-29.	6.2	409
28	Energetics of Oxygen Adatoms, Hydroxyl Species and Water Dissociation on Pt(111). <i>Journal of Physical Chemistry C</i> , 2012, 116, 25772-25776.	3.1	62
29	Energetics of Adsorbed Methanol and Methoxy on Pt(111) by Microcalorimetry. <i>Journal of the American Chemical Society</i> , 2012, 134, 20388-20395.	13.7	70
30	Insights into catalysis by gold nanoparticles and their support effects through surface science studies of model catalysts. <i>Faraday Discussions</i> , 2011, 152, 227.	3.2	78