

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	Lignin valorization through integrated biological funneling and chemical catalysis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12013-12018.	7.1	652
2	Opportunities and challenges in biological lignin valorization. Current Opinion in Biotechnology, 2016, 42, 40-53.	6.6	517
3	Adipic acid production from lignin. Energy and Environmental Science, 2015, 8, 617-628.	30.8	499
4	Structure-activity relationships in NH ₃ -SCR over Cu-SSZ-13 as probed by reaction kinetics and EPR studies. Journal of Catalysis, 2013, 300, 20-29.	6.2	409
5	Towards lignin consolidated bioprocessing: simultaneous lignin depolymerization and product generation by bacteria. Green Chemistry, 2015, 17, 4951-4967.	9.0	298
6	Reductive Catalytic Fractionation of Corn Stover Lignin. ACS Sustainable Chemistry and Engineering, 2016, 4, 6940-6950.	6.7	235
7	Catalytic amino acid production from biomass-derived intermediates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5093-5098.	7.1	168
8	Renewable acrylonitrile production. Science, 2017, 358, 1307-1310.	12.6	122
9	The Techno-Economic Basis for Coproduct Manufacturing To Enable Hydrocarbon Fuel Production from Lignocellulosic Biomass. ACS Sustainable Chemistry and Engineering, 2016, 4, 3196-3211.	6.7	121
10	Alkaline Pretreatment of Corn Stover: Bench-Scale Fractionation and Stream Characterization. ACS Sustainable Chemistry and Engineering, 2014, 2, 1481-1491.	6.7	109
11	Toward low-cost biological and hybrid biological/catalytic conversion of cellulosic biomass to fuels. Energy and Environmental Science, 2022, 15, 938-990.	30.8	93
12	Insights into catalysis by gold nanoparticles and their support effects through surface science studies of model catalysts. Faraday Discussions, 2011, 152, 227.	3.2	78
13	Energetics of Adsorbed Methanol and Methoxy on Pt(111) by Microcalorimetry. Journal of the American Chemical Society, 2012, 134, 20388-20395.	13.7	70
14	<i>In situ</i> recovery of bio-based carboxylic acids. Green Chemistry, 2018, 20, 1791-1804.	9.0	63
15	Energetics of Oxygen Adatoms, Hydroxyl Species and Water Dissociation on Pt(111). Journal of Physical Chemistry C, 2012, 116, 25772-25776.	3.1	62
16	Energetics of Formic Acid Conversion to Adsorbed Formates on Pt(111) by Transient Calorimetry. Journal of the American Chemical Society, 2014, 136, 3964-3971.	13.7	44
17	Quantification of acidic compounds in complex biomass-derived streams. Green Chemistry, 2016, 18, 4750-4760.	9.0	38
18	Energetics of Adsorbed CH ₃ on Pt(111) by Calorimetry. Journal of the American Chemical Society, 2013, 135, 5208-5211.	13.7	33

#	ARTICLE	IF	CITATIONS
19	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
20	Post-Fermentation Recovery of Biobased Carboxylic Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15273-15283.	6.7	29
21	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
22	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
23	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
24	Surface kinetics and energetics from single crystal adsorption calorimetry lineshape analysis: Methyl iodide on Pt(111). <i>Journal of Catalysis</i> , 2013, 308, 114-121.	6.2	11
25	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
26	Emulsion polymerization of acrylonitrile in aqueous methanol. <i>Green Chemistry</i> , 2018, 20, 5299-5310.	9.0	8
27	Energy and techno-economic analysis of bio-based carboxylic acid recovery by adsorption. <i>Green Chemistry</i> , 2021, 23, 4386-4402.	9.0	8
28	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
29	<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
30	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