

Rui Katahira

List of Publications by Year in descending order

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36
papers

2,344
citations

257101

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2896
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and quantification of lignin monomers and oligomers from reductive catalytic fractionation of pine wood with GC–GC–FID/MS. <i>Green Chemistry</i> , 2022, 24, 191-206.	4.6	41
2	The cell utilized partitioning model as a predictive tool for optimizing counter-current chromatography processes. <i>Separation and Purification Technology</i> , 2022, 285, 120330.	3.9	1
3	Bioconversion of wastewater-derived cresols to methyl muconic acids for use in performance-advantaged bioproducts. <i>Green Chemistry</i> , 2022, 24, 3677-3688.	4.6	4
4	Recovery of low molecular weight compounds from alkaline pretreatment liquor via membrane separations. <i>Green Chemistry</i> , 2022, 24, 3152-3166.	4.6	8
5	Fractionation of Lignin Streams Using Tangential Flow Filtration. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 4407-4417.	1.8	4
6	Structural and functional analysis of lignostilbene dioxygenases from <i>Sphingobium</i> sp. SYK-6. <i>Journal of Biological Chemistry</i> , 2021, 296, 100758.	1.6	7
7	Intracellular pathways for lignin catabolism in white-rot fungi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	82
8	Pathway discovery and engineering for cleavage of a β -1 lignin-derived biaryl compound. <i>Metabolic Engineering</i> , 2021, 65, 1-10.	3.6	22
9	Flow-through solvolysis enables production of native-like lignin from biomass. <i>Green Chemistry</i> , 2021, 23, 5437-5441.	4.6	25
10	Metabolic engineering of <i>Pseudomonas putida</i> for increased polyhydroxyalkanoate production from lignin. <i>Microbial Biotechnology</i> , 2020, 13, 290-298.	2.0	120
11	Characterization of alkylguaiacol-degrading cytochromes P450 for the biocatalytic valorization of lignin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25771-25778.	3.3	35
12	Outer membrane vesicles catabolize lignin-derived aromatic compounds in <i>Pseudomonas putida</i> KT2440. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9302-9310.	3.3	82
13	Ga/ZSM-5 catalyst improves hydrocarbon yields and increases alkene selectivity during catalytic fast pyrolysis of biomass with co-fed hydrogen. <i>Green Chemistry</i> , 2020, 22, 2403-2418.	4.6	26
14	Mesoscale Reaction–Diffusion Phenomena Governing Lignin First Biomass Fractionation. <i>ChemSusChem</i> , 2020, 13, 4495-4509.	3.6	35
15	Microbial electrochemical treatment of biorefinery black liquor and resource recovery. <i>Green Chemistry</i> , 2019, 21, 1258-1266.	4.6	28
16	Differences in S/G ratio in natural poplar variants do not predict catalytic depolymerization monomer yields. <i>Nature Communications</i> , 2019, 10, 2033.	5.8	127
17	Metal-Free Aqueous Flow Battery with Novel Ultrafiltered Lignin as Electrolyte. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5394-5400.	3.2	52
18	Revisiting alkaline aerobic lignin oxidation. <i>Green Chemistry</i> , 2018, 20, 3828-3844.	4.6	114

#	ARTICLE	IF	CITATIONS
19	Reductive Catalytic Fractionation of C-Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11211-11218.	3.2	89
20	Alkaline Peroxide Delignification of Corn Stover. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6310-6321.	3.2	60
21	Flowthrough Reductive Catalytic Fractionation of Biomass. <i>Joule</i> , 2017, 1, 613-622.	11.7	197
22	Base-Catalyzed Depolymerization of Solid Lignin-Rich Streams Enables Microbial Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8171-8180.	3.2	115
23	Heavy Metal-Free Tannin from Bark for Sustainable Energy Storage. <i>Nano Letters</i> , 2017, 17, 7897-7907.	4.5	46
24	Integrated Biorefining: Coproduction of Renewable Resol Biopolymer for Aqueous Stream Valorization. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6615-6625.	3.2	19
25	Reductive Catalytic Fractionation of Corn Stover Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6940-6950.	3.2	235
26	Downregulation of p-Coumaroyl Quinate/Shikimate 3- β -Hydroxylase (C3 β H) or Cinnamate-4-hydroxylase (C4H) in <i>Eucalyptus urophylla</i> – <i>Eucalyptus grandis</i> Leads to Increased Extractability. <i>Bioenergy Research</i> , 2016, 9, 691-699.	2.2	12
27	Base-Catalyzed Depolymerization of Biorefinery Lignins. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1474-1486.	3.2	172
28	Pyrolysis reaction networks for lignin model compounds: unraveling thermal deconstruction of β -O-4 and β -5-O-4 compounds. <i>Green Chemistry</i> , 2016, 18, 1762-1773.	4.6	92
29	Molybdenum incorporated mesoporous silica catalyst for production of biofuels and value-added chemicals via catalytic fast pyrolysis. <i>Green Chemistry</i> , 2015, 17, 3035-3046.	4.6	45
30	A thermodynamic investigation of the cellulose allomorphs: Cellulose(am), cellulose II ² (cr), cellulose III(cr), and cellulose III ¹ (cr). <i>Journal of Chemical Thermodynamics</i> , 2015, 81, 184-226.	1.0	50
31	Clean Fractionation Pretreatment Reduces Enzyme Loadings for Biomass Saccharification and Reveals the Mechanism of Free and Cellulosomal Enzyme Synergy. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1377-1387.	3.2	35
32	Lignin depolymerisation by nickel supported layered-double hydroxide catalysts. <i>Green Chemistry</i> , 2014, 16, 824-835.	4.6	161
33	Effect of mechanical disruption on the effectiveness of three reactors used for dilute acid pretreatment of corn stover Part 1: chemical and physical substrate analysis. <i>Biotechnology for Biofuels</i> , 2014, 7, 57.	6.2	39
34	Enhanced characteristics of genetically modified switchgrass (<i>Panicum virgatum</i> L.) for high biofuel production. <i>Biotechnology for Biofuels</i> , 2013, 6, 71.	6.2	118
35	Degradation of Carbohydrates during Dilute Sulfuric Acid Pretreatment Can Interfere with Lignin Measurements in Solid Residues. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 3286-3292.	2.4	24
36	Investigation of Xylose Reversion Reactions That Can Occur during Dilute Acid Pretreatment. <i>Energy & Fuels</i> , 2013, 27, 7389-7397.	2.5	5