

# Blake Alexander Simmons

## List of Publications by Year in descending order

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400  
papers

27,621  
citations

5248

83  
h-index

8835

145  
g-index

420  
all docs

420  
docs citations

420  
times ranked

26998  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of advances in the development of laccases for the valorization of lignin to enable the production of lignocellulosic biofuels and bioproducts. <i>Biotechnology Advances</i> , 2022, 54, 107809.	6.0	50
2	Cooperative Brønsted-Lewis acid sites created by phosphotungstic acid encapsulated metal-organic frameworks for selective glucose conversion to 5-hydroxymethylfurfural. <i>Fuel</i> , 2022, 310, 122459.	3.4	28
3	Prediction of solubility parameters of lignin and ionic liquids using multi-resolution simulation approaches. <i>Green Chemistry</i> , 2022, 24, 1165-1176.	4.6	30
4	Depolymerization of lignin for biological conversion through sulfonation and a chelator-mediated Fenton reaction. <i>Green Chemistry</i> , 2022, 24, 1627-1643.	4.6	6
5	One-pot ethanol production under optimized pretreatment conditions using agave bagasse at high solids loading with low-cost biocompatible protic ionic liquid. <i>Green Chemistry</i> , 2022, 24, 207-217.	4.6	13
6	A new platform for ultra-high dose rate radiobiological research using the BELLA PW laser proton beamline. <i>Scientific Reports</i> , 2022, 12, 1484.	1.6	23
7	Scale-Up of the Ionic Liquid-Based Biomass Conversion Processes. , 2022, , 1-8.		0
8	Comparative Study on the Pretreatment of Aspen and Maple With 1-Ethyl-3-methylimidazolium Acetate and Cholinium Lysinate. <i>Frontiers in Energy Research</i> , 2022, 10, .	1.2	3
9	Complete Genome Sequences of Five Isolated <i>Pseudomonas</i> Strains that Catabolize Pentose Sugars and Aromatic Compounds Obtained from Lignocellulosic Biomass. <i>Microbiology Resource Announcements</i> , 2022, 11, e0098721.	0.3	4
10	<i>In silico</i> COSMO-RS predictive screening of ionic liquids for the dissolution of plastic. <i>Green Chemistry</i> , 2022, 24, 4140-4152.	4.6	33
11	Machine learning for metabolic engineering: A review. <i>Metabolic Engineering</i> , 2021, 63, 34-60.	3.6	135
12	Towards understanding of delignification of grassy and woody biomass in cholinium-based ionic liquids. <i>Green Chemistry</i> , 2021, 23, 6020-6035.	4.6	22
13	Integration of acetic acid catalysis with one-pot protic ionic liquid configuration to achieve high-efficient biorefinery of poplar biomass. <i>Green Chemistry</i> , 2021, 23, 6036-6049.	4.6	29
14	Liquid nanostructure of choline lysinate with water and a model lignin residue. <i>Green Chemistry</i> , 2021, 23, 856-866.	4.6	13
15	A predictive toolset for the identification of effective lignocellulosic pretreatment solvents: a case study of solvents tailored for lignin extraction. <i>Green Chemistry</i> , 2021, 23, 7269-7289.	4.6	22
16	Liquid Nanostructure of Cholinium Arginate Biomass Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2880-2890.	3.2	11
17	Seawater-based one-pot ionic liquid pretreatment of sorghum for jet fuel production. <i>Bioresource Technology Reports</i> , 2021, 13, 100622.	1.5	6
18	Can Multiple Ions in an Ionic Liquid Improve the Biomass Pretreatment Efficacy?. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4371-4376.	3.2	15

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19	Deconstruction of Woody Biomass via Protic and Aprotic Ionic Liquid Pretreatment for Ethanol Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4422-4432.	3.2	34
20	High-Efficiency Conversion of Ionic Liquid-Pretreated Woody Biomass to Ethanol at the Pilot Scale. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4042-4053.	3.2	40
21	Engineering <i>Saccharomyces cerevisiae</i> for isoprenol production. <i>Metabolic Engineering</i> , 2021, 64, 154-166.	3.6	34
22	Experimental and theoretical insights into the effects of pH on catalysis of bond-cleavage by the lignin peroxidase isozyme H8 from <i>Phanerochaete chrysosporium</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 108.	6.2	10
23	Pests, diseases, and aridity have shaped the genome of <i>Corymbia citriodora</i> . <i>Communications Biology</i> , 2021, 4, 537.	2.0	21
24	Development of dual-inducible dual-expression vectors for tunable gene expression control and CRISPR interference-based gene repression in <i>Pseudomonas putida</i> KT2440. <i>Microbial Biotechnology</i> , 2021, 14, 2659-2678.	2.0	10
25	A multiplexed nanostructure-initiator mass spectrometry (NIMS) assay for simultaneously detecting glycosyl hydrolase and lignin modifying enzyme activities. <i>Scientific Reports</i> , 2021, 11, 11803.	1.6	7
26	The F-box protein gene <i>exo-1</i> is a target for reverse engineering enzyme hypersecretion in filamentous fungi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	13
27	Plant single-cell solutions for energy and the environment. <i>Communications Biology</i> , 2021, 4, 962.	2.0	23
28	Generation of <i>Pseudomonas putida</i> KT2440 Strains with Efficient Utilization of Xylose and Galactose via Adaptive Laboratory Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11512-11523.	3.2	32
29	Production Cost and Carbon Footprint of Biomass-Derived Dimethylcyclooctane as a High-Performance Jet Fuel Blendstock. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11872-11882.	3.2	21
30	Evaluation of bacterial hosts for conversion of lignin-derived p-coumaric acid to 4-vinylphenol. <i>Microbial Cell Factories</i> , 2021, 20, 181.	1.9	9
31	Bacterial diversity dynamics in microbial consortia selected for lignin utilization. <i>PLoS ONE</i> , 2021, 16, e0255083.	1.1	11
32	Ionic liquid-water mixtures enhance pretreatment and anaerobic digestion of agave bagasse. <i>Industrial Crops and Products</i> , 2021, 171, 113924.	2.5	8
33	Use of ensiled biomass sorghum increases ionic liquid pretreatment efficiency and reduces biofuel production cost and carbon footprint. <i>Green Chemistry</i> , 2021, 23, 3127-3140.	4.6	37
34	Alkanolamines as Dual Functional Solvents for Biomass Deconstruction and Bioenergy Production. <i>Green Chemistry</i> , 2021, 23, 8611-8631.	4.6	8
35	Overexpression of the rice BAHD acyltransferase AT10 increases xylan-bound p-coumarate and reduces lignin in <i>Sorghum bicolor</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 217.	6.2	16
36	Genomics Characterization of an Engineered <i>Corynebacterium glutamicum</i> in Bioreactor Cultivation Under Ionic Liquid Stress. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 766674.	2.0	6

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37	Effect of ionic liquid on sugar-aromatic separation selectivity by metal-organic framework NU-1000 in aqueous solution. <i>Fuel Processing Technology</i> , 2020, 197, 106189.	3.7	4
38	Enhanced Softwood Cellulose Accessibility by H <sub>3</sub> PO <sub>4</sub> Pretreatment: High Sugar Yield without Compromising Lignin Integrity. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 1010-1024.	1.8	9
39	Evaluating Protic Ionic Liquid for Woody Biomass One-Pot Pretreatment + Saccharification, Followed by <i>Rhodospiridium toruloides</i> Cultivation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 782-791.	3.2	18
40	Lignin induced iron reduction by novel sp., <i>Tolomonas lignolytic</i> BRL6-1. <i>PLoS ONE</i> , 2020, 15, e0233823.	1.1	8
41	Adaptive laboratory evolution of <i>Pseudomonas putida</i> KT2440 improves p-coumaric and ferulic acid catabolism and tolerance. <i>Metabolic Engineering Communications</i> , 2020, 11, e00143.	1.9	73
42	Conversion of poplar biomass into high-energy density tricyclic sesquiterpene jet fuel blendstocks. <i>Microbial Cell Factories</i> , 2020, 19, 208.	1.9	18
43	Generation of ionic liquid tolerant <i>Pseudomonas putida</i> KT2440 strains via adaptive laboratory evolution. <i>Green Chemistry</i> , 2020, 22, 5677-5690.	4.6	29
44	Influence of hydrocracking and ionic liquid pretreatments on composition and properties of <i>Arabidopsis thaliana</i> wild type and CAD mutant lignins. <i>Renewable Energy</i> , 2020, 152, 1241-1249.	4.3	3
45	Whole-Genome Sequence of <i>Brevibacillus borstelensis</i> SDM, Isolated from a Sorghum-Adapted Microbial Community. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.3	10
46	Variation in sugarcane biomass composition and enzymatic saccharification of leaves, internodes and roots. <i>Biotechnology for Biofuels</i> , 2020, 13, 201.	6.2	11
47	Structural changes in bacterial and fungal soil microbiome components during biosolarization as related to volatile fatty acid accumulation. <i>Applied Soil Ecology</i> , 2020, 153, 103602.	2.1	10
48	Response of <i>Pseudomonas putida</i> to Complex, Aromatic-Rich Fractions from Biomass. <i>ChemSusChem</i> , 2020, 13, 4455-4467.	3.6	23
49	Ionic Liquid Tolerance of Yeasts in Family Dipodascaceae and Genus <i>Wickerhamomyces</i> . <i>Applied Biochemistry and Biotechnology</i> , 2020, 191, 1580-1593.	1.4	7
50	A comparative genomics study of 23 <i>Aspergillus</i> species from section Flavi. <i>Nature Communications</i> , 2020, 11, 1106.	5.8	125
51	Theoretical study on the microscopic mechanism of lignin solubilization in Keggin-type polyoxometalate ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2878-2886.	1.3	20
52	Succession of physiological stages hallmarks the transcriptomic response of the fungus <i>Aspergillus niger</i> to lignocellulose. <i>Biotechnology for Biofuels</i> , 2020, 13, 69.	6.2	4
53	Accumulation of high-value bioproducts in plants can improve the economics of advanced biofuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8639-8648.	3.3	57
54	Multi-Omics Driven Metabolic Network Reconstruction and Analysis of Lignocellulosic Carbon Utilization in <i>Rhodospiridium toruloides</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 612832.	2.0	25

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55	The effect of continuous tubular reactor technologies on the pretreatment of lignocellulosic biomass at pilot-scale for bioethanol production. <i>RSC Advances</i> , 2020, 10, 18147-18159.	1.7	17
56	Scale-up of biomass conversion using 1-ethyl-3-methylimidazolium acetate as the solvent. <i>Green Energy and Environment</i> , 2019, 4, 432-438.	4.7	36
57	Conversion of Distiller's Grains to Renewable Fuels and High Value Protein: Integrated Techno-Economic and Life Cycle Assessment. <i>Environmental Science &amp; Technology</i> , 2019, 53, 10525-10533.	4.6	13
58	Greenhouse Gas Footprint, Water-Intensity, and Production Cost of Bio-Based Isopentenol as a Renewable Transportation Fuel. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15434-15444.	3.2	16
59	Methyl Ketones from Municipal Solid Waste Blends by One-Pot Ionic Liquid Pretreatment, Saccharification, and Fermentation. <i>ChemSusChem</i> , 2019, 12, 4313-4322.	3.6	14
60	Ethanol production in switchgrass hydrolysate by ionic liquid-tolerant yeasts. <i>Bioresource Technology Reports</i> , 2019, 7, 100275.	1.5	9
61	A toolset of constitutive promoters for metabolic engineering of <i>Rhodospiridium toruloides</i> . <i>Microbial Cell Factories</i> , 2019, 18, 117.	1.9	50
62	Performance of three delignifying pretreatments on hardwoods: hydrolysis yields, comprehensive mass balances, and lignin properties. <i>Biotechnology for Biofuels</i> , 2019, 12, 213.	6.2	27
63	One-pot bio-derived ionic liquid conversion followed by hydrogenolysis reaction for biomass valorization: A promising approach affecting the morphology and quality of lignin of switchgrass and poplar. <i>Bioresource Technology</i> , 2019, 294, 122214.	4.8	34
64	NaCl enhances <i>Escherichia coli</i> growth and isoprenol production in the presence of imidazolium-based ionic liquids. <i>Bioresource Technology Reports</i> , 2019, 6, 1-5.	1.5	8
65	Techno-economic analysis and life-cycle greenhouse gas mitigation cost of five routes to bio-jet fuel blendstocks. <i>Energy and Environmental Science</i> , 2019, 12, 807-824.	15.6	109
66	Guanidine Riboswitch-Regulated Efflux Transporters Protect Bacteria against Ionic Liquid Toxicity. <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	17
67	Sustainable bioproduction of the blue pigment indigoidine: Expanding the range of heterologous products in <i>R. toruloides</i> to include non-ribosomal peptides. <i>Green Chemistry</i> , 2019, 21, 3394-3406.	4.6	57
68	Pilot-scale hydrothermal pretreatment and optimized saccharification enables bisabolene production from multiple feedstocks. <i>Green Chemistry</i> , 2019, 21, 3152-3164.	4.6	24
69	Conversion of depolymerized sugars and aromatics from engineered feedstocks by two oleaginous red yeasts. <i>Bioresource Technology</i> , 2019, 286, 121365.	4.8	23
70	Methyl ketone production by <i>Pseudomonas putida</i> is enhanced by plant-derived amino acids. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1909-1922.	1.7	29
71	Engineering <i>Corynebacterium glutamicum</i> to produce the biogasoline isopentenol from plant biomass hydrolysates. <i>Biotechnology for Biofuels</i> , 2019, 12, 41.	6.2	51
72	Techno-economic and greenhouse gas analyses of lignin valorization to eugenol and phenolic products in integrated ethanol biorefineries. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 978-993.	1.9	40

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73	On the solution structure of kraft lignin in ethylene glycol and its implication for nanoparticle preparation. <i>Nanoscale Advances</i> , 2019, 1, 299-304.	2.2	33
74	Dimethyl sulfoxide assisted dissolution of cellulose in 1-ethyl-3-methylimidazoium acetate: small angle neutron scattering and rheological studies. <i>Cellulose</i> , 2019, 26, 2243-2253.	2.4	14
75	Assessment of biogas production and microbial ecology in a high solid anaerobic digestion of major California food processing residues. <i>Bioresource Technology Reports</i> , 2019, 5, 1-11.	1.5	24
76	A new approach to Cas9-based genome editing in <i>Aspergillus niger</i> that is precise, efficient and selectable. <i>PLoS ONE</i> , 2019, 14, e0210243.	1.1	40
77	Tolerance Characterization and Isoprenol Production of Adapted <i>Escherichia coli</i> in the Presence of Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1457-1463.	3.2	10
78	Structural Design of Ionic Liquids for Optimizing Aromatic Dissolution. <i>ChemSusChem</i> , 2019, 12, 270-274.	3.6	15
79	Simultaneous application of predictive model and least cost formulation can substantially benefit biorefineries outside Corn Belt in United States: A case study in Florida. <i>Bioresource Technology</i> , 2019, 271, 218-227.	4.8	11
80	N-Heterocyclic Carbene Promoted Decarboxylation of Lignin-Derived Aromatic Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7232-7238.	3.2	19
81	Dimethyl Sulfoxide Assisted Ionic Liquid Pretreatment of Switchgrass for Isoprenol Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4354-4361.	3.2	32
82	Characterization of Lignin Streams during Bionic Liquid-Based Pretreatment from Grass, Hardwood, and Softwood. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3079-3090.	3.2	70
83	Forward genetics screen coupled with whole-genome resequencing identifies novel gene targets for improving heterologous enzyme production in <i>Aspergillus niger</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 1797-1807.	1.7	15
84	Biomass pretreatment using deep eutectic solvents from lignin derived phenols. <i>Green Chemistry</i> , 2018, 20, 809-815.	4.6	235
85	Linking secondary metabolites to gene clusters through genome sequencing of six diverse <i>Aspergillus</i> species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E753-E761.	3.3	126
86	Annotation of the <i>Corymbia</i> terpene synthase gene family shows broad conservation but dynamic evolution of physical clusters relative to <i>Eucalyptus</i> . <i>Heredity</i> , 2018, 121, 87-104.	1.2	17
87	Cascade Production of Lactic Acid from Universal Types of Sugars Catalyzed by Lanthanum Triflate. <i>ChemSusChem</i> , 2018, 11, 598-604.	3.6	18
88	Solubilization and Upgrading of High Polyethylene Terephthalate Loadings in a Low-Cost Bifunctional Ionic Liquid. <i>ChemSusChem</i> , 2018, 11, 781-792.	3.6	62
89	A bacterial pioneer produces cellulase complexes that persist through community succession. <i>Nature Microbiology</i> , 2018, 3, 99-107.	5.9	38
90	Regulation of Yeast-to-Hyphae Transition in <i>Yarrowia lipolytica</i> . <i>MSphere</i> , 2018, 3, .	1.3	35

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91	Rapid characterization of the activities of lignin-modifying enzymes based on nanostructure-initiator mass spectrometry (NIMS). <i>Biotechnology for Biofuels</i> , 2018, 11, 266.	6.2	14
92	Bioconversion of Giant Cane for Integrated Production of Biohydrogen, Carboxylic Acids, and Polyhydroxyalkanoates (PHAs) in a Multistage Biorefinery Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15361-15373.	3.2	29
93	Engineering glycoside hydrolase stability by the introduction of zinc binding. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 702-710.	1.1	1
94	Short-chain ketone production by engineered polyketide synthases in <i>Streptomyces albus</i> . <i>Nature Communications</i> , 2018, 9, 4569.	5.8	52
95	Investigation of inter- and intraspecies variation through genome sequencing of <i>Aspergillus section Nigri</i> . <i>Nature Genetics</i> , 2018, 50, 1688-1695.	9.4	160
96	Jungle Express is a versatile repressor system for tight transcriptional control. <i>Nature Communications</i> , 2018, 9, 3617.	5.8	33
97	Structure-based Engineering of a Plant-Fungal Hybrid Peroxidase for Enhanced Temperature and pH Tolerance. <i>Cell Chemical Biology</i> , 2018, 25, 974-983.e3.	2.5	10
98	Efficient conversion of lignin into a water-soluble polymer by a chelator-mediated Fenton reaction: optimization of H <sub>2</sub> O <sub>2</sub> use and performance as a dispersant. <i>Green Chemistry</i> , 2018, 20, 3024-3037.	4.6	36
99	Demonstrating a separation-free process coupling ionic liquid pretreatment, saccharification, and fermentation with <i>Rhodospiridium toruloides</i> to produce advanced biofuels. <i>Green Chemistry</i> , 2018, 20, 2870-2879.	4.6	77
100	Cloning and Expression of Heterologous Cellulases and Enzymes in <i>Aspergillus niger</i> . <i>Methods in Molecular Biology</i> , 2018, 1796, 123-133.	0.4	0
101	Functional genomics of lipid metabolism in the oleaginous yeast <i>Rhodospiridium toruloides</i> . <i>ELife</i> , 2018, 7, .	2.8	98
102	Natural Variation in the Multidrug Efflux Pump <i>SGE1</i> Underlies Ionic Liquid Tolerance in Yeast. <i>Genetics</i> , 2018, 210, 219-234.	1.2	30
103	Microbial Community Structure and Functional Potential Along a Hypersaline Gradient. <i>Frontiers in Microbiology</i> , 2018, 9, 1492.	1.5	41
104	Elucidating transfer hydrogenation mechanisms in non-catalytic lignin depolymerization. <i>Green Chemistry</i> , 2018, 20, 3566-3580.	4.6	11
105	A mosaic monoploid reference sequence for the highly complex genome of sugarcane. <i>Nature Communications</i> , 2018, 9, 2638.	5.8	299
106	Biocompatible Choline-Based Deep Eutectic Solvents Enable One-Pot Production of Cellulosic Ethanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8914-8919.	3.2	63
107	Development of an integrated approach for $\alpha$ -pinene recovery and sugar production from loblolly pine using ionic liquids. <i>Green Chemistry</i> , 2017, 19, 1117-1127.	4.6	10
108	Structure and activity of thermophilic methanogenic microbial communities exposed to quaternary ammonium sanitizer. <i>Journal of Environmental Sciences</i> , 2017, 56, 164-168.	3.2	6

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109	Nitrogen amendment of green waste impacts microbial community, enzyme secretion and potential for lignocellulose decomposition. <i>Process Biochemistry</i> , 2017, 52, 214-222.	1.8	20
110	Scale-up and process integration of sugar production by acidolysis of municipal solid waste/corn stover blends in ionic liquids. <i>Biotechnology for Biofuels</i> , 2017, 10, 13.	6.2	24
111	Understanding factors controlling depolymerization and polymerization in catalytic degradation of $\beta$ -ether linked model lignin compounds by versatile peroxidase. <i>Green Chemistry</i> , 2017, 19, 2145-2154.	4.6	29
112	Characterization of white poplar and eucalyptus after ionic liquid pretreatment as a function of biomass loading using X-ray diffraction and small angle neutron scattering. <i>Bioresource Technology</i> , 2017, 232, 113-118.	4.8	24
113	Treatment of lignite and thermal coal with low cost amino acid based ionic liquid-water mixtures. <i>Fuel</i> , 2017, 202, 296-306.	3.4	62
114	One-pot integrated biofuel production using low-cost biocompatible protic ionic liquids. <i>Green Chemistry</i> , 2017, 19, 3152-3163.	4.6	115
115	High-Quality Draft Genome Sequences of Four Lignocellulose-Degrading Bacteria Isolated from Puerto Rican Forest Soil: <i>Gordonia</i> sp., <i>Paenibacillus</i> sp., <i>Variovorax</i> sp., and <i>Vogesella</i> sp. <i>Genome Announcements</i> , 2017, 5, .	0.8	18
116	Parametric study for the optimization of ionic liquid pretreatment of corn stover. <i>Bioresource Technology</i> , 2017, 241, 627-637.	4.8	35
117	From lignin subunits to aggregates: insights into lignin solubilization. <i>Green Chemistry</i> , 2017, 19, 3272-3281.	4.6	149
118	Engineering high-level production of fatty alcohols by <i>Saccharomyces cerevisiae</i> from lignocellulosic feedstocks. <i>Metabolic Engineering</i> , 2017, 42, 115-125.	3.6	97
119	Structure of aryl O-demethylase offers molecular insight into a catalytic tyrosine-dependent mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3205-E3214.	3.3	24
120	Ternary ionic liquid-water pretreatment systems of an agave bagasse and municipal solid waste blend. <i>Biotechnology for Biofuels</i> , 2017, 10, 72.	6.2	22
121	Chemoselective Methylation of Phenolic Hydroxyl Group Prevents Quinone Methide Formation and Repolymerization During Lignin Depolymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3913-3919.	3.2	55
122	Biomass Pretreatment Using Dilute Aqueous Ionic Liquid (IL) Solutions with Dynamically Varying IL Concentration and Its Impact on IL Recycling. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4408-4413.	3.2	25
123	Strategy for Extending the Stability of Bio-oil-Derived Phenolic Oligomers by Mild Hydrotreatment with Ionic-Liquid-Stabilized Nanoparticles. <i>ChemSusChem</i> , 2017, 10, 884-893.	3.6	2
124	Rhorix: An interface between quantum chemical topology and the 3D graphics program blender. <i>Journal of Computational Chemistry</i> , 2017, 38, 2538-2552.	1.5	8
125	Life-Cycle Greenhouse Gas and Water Intensity of Cellulosic Biofuel Production Using Cholinium Lysinate Ionic Liquid Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10176-10185.	3.2	49
126	Survey of Lignin-Structure Changes and Depolymerization during Ionic Liquid Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10116-10127.	3.2	77



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127	Effect of Ionic Liquid Pretreatment on the Porosity of Pine: Insights from Small-Angle Neutron Scattering, Nitrogen Adsorption Analysis, and X-ray Diffraction. <i>Energy &amp; Fuels</i> , 2017, 31, 10874-10879.	2.5	6
128	Development and characterization of a thermophilic, lignin degrading microbiota. <i>Process Biochemistry</i> , 2017, 63, 193-203.	1.8	29
129	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
130	Conversion of cellulose rich municipal solid waste blends using ionic liquids: feedstock convertibility and process scale-up. <i>RSC Advances</i> , 2017, 7, 36585-36593.	1.7	16
131	1-Ethyl-3-methylimidazolium tolerance and intracellular lipid accumulation of 38 oleaginous yeast species. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 8621-8631.	1.7	9
132	Predictive modeling to de-risk bio-based manufacturing by adapting to variability in lignocellulosic biomass supply. <i>Bioresource Technology</i> , 2017, 243, 676-685.	4.8	16
133	Comparison of soil biosolarization with mesophilic and thermophilic solid digestates on soil microbial quantity and diversity. <i>Applied Soil Ecology</i> , 2017, 119, 183-191.	2.1	18
134	Expression of <i>Aspergillus niger</i> CAZymes is determined by compositional changes in wheat straw generated by hydrothermal or ionic liquid pretreatments. <i>Biotechnology for Biofuels</i> , 2017, 10, 35.	6.2	18
135	Impact of lignin polymer backbone esters on ionic liquid pretreatment of poplar. <i>Biotechnology for Biofuels</i> , 2017, 10, 101.	6.2	48
136	Efficient dehydration and recovery of ionic liquid after lignocellulosic processing using pervaporation. <i>Biotechnology for Biofuels</i> , 2017, 10, 154.	6.2	72
137	Catalytic transfer hydrogenolysis of ionic liquid processed biorefinery lignin to phenolic compounds. <i>Green Chemistry</i> , 2017, 19, 215-224.	4.6	70
138	Sequential enzymatic saccharification and fermentation of ionic liquid and organosolv pretreated agave bagasse for ethanol production. <i>Bioresource Technology</i> , 2017, 225, 191-198.	4.8	44
139	Dynamic changes of substrate reactivity and enzyme adsorption on partially hydrolyzed cellulose. <i>Biotechnology and Bioengineering</i> , 2017, 114, 503-515.	1.7	24
140	Reply to Kiser: Dioxygen binding in NOV1 crystal structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6029-E6030.	3.3	4
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