Blake A Simmons

List of Publications by Year
in descending order

293 papers	21,727 citations	8159 76 h-index	12558 132 g-index
300 all docs	300 docs citations	300 times ranked	19745 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. Biotechnology Advances, 2022, 54, 107809.	6.0	50
2	Cooperative BrÃ¸nsted-Lewis acid sites created by phosphotungstic acid encapsulated metalâ€“organic frameworks for selective glucose conversion to 5-hydroxymethylfurfural. Fuel, 2022, 310, 122459.	3.4	28
3	Depolymerization of lignin for biological conversion through sulfonation and a chelator-mediated Fenton reaction. Green Chemistry, 2022, 24, 1627-1643.	4.6	6
4	One-pot ethanol production under optimized pretreatment conditions using agave bagasse at high solids loading with low-cost biocompatible protic ionic liquid. Green Chemistry, 2022, 24, 207-217.	4.6	13
5	Scale-Up of the Ionic Liquid-Based Biomass Conversion Processes. , 2022, , 1-8.		0
6	Comparative Study on the Pretreatment of Aspen and Maple With 1-Ethyl-3-methylimidazolium Acetate and Cholinium Lysinate. Frontiers in Energy Research, 2022, 10, .	1.2	3
7	Complete Genome Sequences of Five Isolated Pseudomonas Strains that Catabolize Pentose Sugars and Aromatic Compounds Obtained from Lignocellulosic Biomass. Microbiology Resource Announcements, 2022, 11, e0098721.	0.3	4
8	<i>In silico</i> COSMO-RS predictive screening of ionic liquids for the dissolution of plastic. Green Chemistry, 2022, 24, 4140-4152.	4.6	33
9	Machine learning for metabolic engineering: A review. Metabolic Engineering, 2021, 63, 34-60.	3.6	135
10	Towards understanding of delignification of grassy and woody biomass in cholinium-based ionic liquids. Green Chemistry, 2021, 23, 6020-6035.	4.6	22
11	Integration of acetic acid catalysis with one-pot protic ionic liquid configuration to achieve high-efficient biorefinery of poplar biomass. Green Chemistry, 2021, 23, 6036-6049.	4.6	29
12	Liquid nanostructure of choline lysinate with water and a model lignin residue. Green Chemistry, 2021, 23, 856-866.	4.6	13
13	A predictive toolset for the identification of effective lignocellulosic pretreatment solvents: a case study of solvents tailored for lignin extraction. Green Chemistry, 2021, 23, 7269-7289.	4.6	22
14	Liquid Nanostructure of Cholinium Argininate Biomass Solvents. ACS Sustainable Chemistry and Engineering, 2021, 9, 2880-2890.	3.2	11
15	Seawater-based one-pot ionic liquid pretreatment of sorghum for jet fuel production. Bioresource Technology Reports, 2021, 13, 100622.	1.5	6
16	Can Multiple Ions in an Ionic Liquid Improve the Biomass Pretreatment Efficacy?. ACS Sustainable Chemistry and Engineering, 2021, 9, 4371-4376.	3.2	15
17	Deconstruction of Woody Biomass via Protic and Aprotic Ionic Liquid Pretreatment for Ethanol Production. ACS Sustainable Chemistry and Engineering, 2021, 9, 4422-4432.	3.2	34
18	High-Efficiency Conversion of Ionic Liquid-Pretreated Woody Biomass to Ethanol at the Pilot Scale. ACS Sustainable Chemistry and Engineering, 2021, 9, 4042-4053.	3.2	40

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19	Engineering Saccharomyces cerevisiae for isoprenol production. Metabolic Engineering, 2021, 64, 154-166.	3.6	34
20	Pests, diseases, and aridity have shaped the genome of Corymbia citriodora. Communications Biology, 2021, 4, 537.	2.0	21
21	A multiplexed nanostructure-initiator mass spectrometry (NIMS) assay for simultaneously detecting glycosyl hydrolase and lignin modifying enzyme activities. Scientific Reports, 2021, 11, 11803.	1.6	7
22	Generation of <i>Pseudomonas putida</i> KT2440 Strains with Efficient Utilization of Xylose and Galactose via Adaptive Laboratory Evolution. ACS Sustainable Chemistry and Engineering, 2021, 9, 11512-11523.	3.2	32
23	Production Cost and Carbon Footprint of Biomass-Derived Dimethylcyclooctane as a High-Performance Jet Fuel Blendstock. ACS Sustainable Chemistry and Engineering, 2021, 9, 11872-11882.	3.2	21
24	Evaluation of bacterial hosts for conversion of lignin-derived p-coumaric acid to 4-vinylphenol. Microbial Cell Factories, 2021, 20, 181.	1.9	9
25	Bacterial diversity dynamics in microbial consortia selected for lignin utilization. PLoS ONE, 2021, 16, e0255083.	1.1	11
26	Ionic liquid-water mixtures enhance pretreatment and anaerobic digestion of agave bagasse. Industrial Crops and Products, 2021, 171, 113924.	2.5	8
27	Use of ensiled biomass sorghum increases ionic liquid pretreatment efficiency and reduces biofuel production cost and carbon footprint. Green Chemistry, 2021, 23, 3127-3140.	4.6	37
28	Alkanolamines as Dual Functional Solvents for Biomass Deconstruction and Bioenergy Production. Green Chemistry, 2021, 23, 8611-8631.	4.6	8
29	Overexpression of the rice BAHD acyltransferase AT10 increases xylan-bound p-coumarate and reduces lignin in Sorghum bicolor. Biotechnology for Biofuels, 2021, 14, 217.	6.2	16
30	Effect of ionic liquid on sugar-aromatic separation selectivity by metal-organic framework NU-1000 in aqueous solution. Fuel Processing Technology, 2020, 197, 106189.	3.7	4
31	Enhanced Softwood Cellulose Accessibility by H3PO4 Pretreatment: High Sugar Yield without Compromising Lignin Integrity. Industrial & Engineering Chemistry Research, 2020, 59, 1010-1024.	1.8	9
32	Evaluating Protic Ionic Liquid for Woody Biomass One-Pot Pretreatment + Saccharification, Followed by <i>Rhodosporidium toruloides</i> Cultivation. ACS Sustainable Chemistry and Engineering, 2020, 8, 782-791.	3.2	18
33	Adaptive laboratory evolution of Pseudomonas putida KT2440 improves p-coumaric and ferulic acid catabolism and tolerance. Metabolic Engineering Communications, 2020, 11, e00143.	1.9	73
34	Conversion of poplar biomass into high-energy density tricyclic sesquiterpene jet fuel blendstocks. Microbial Cell Factories, 2020, 19, 208.	1.9	18
35	Generation of ionic liquid tolerant <i>Pseudomonas putida</i> KT2440 strains <i>via</i> adaptive laboratory evolution. Green Chemistry, 2020, 22, 5677-5690.	4.6	29
36	Whole-Genome Sequence of Brevibacillus borstelensis SDM, Isolated from a Sorghum-Adapted Microbial Community. Microbiology Resource Announcements, 2020, 9, .	0.3	10

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37	Structural changes in bacterial and fungal soil microbiome components during biosolarization as related to volatile fatty acid accumulation. Applied Soil Ecology, 2020, 153, 103602.	2.1	10
38	Response of <i>Pseudomonas putida</i> to Complex, Aromaticâ€Rich Fractions from Biomass. ChemSusChem, 2020, 13, 4455-4467.	3.6	23
39	A comparative genomics study of 23 Aspergillus species from section Flavi. Nature Communications, 2020, 11, 1106.	5.8	125
40	Theoretical study on the microscopic mechanism of lignin solubilization in Keggin-type polyoxometalate ionic liquids. Physical Chemistry Chemical Physics, 2020, 22, 2878-2886.	1.3	20
41	Succession of physiological stages hallmarks the transcriptomic response of theÂfungus Aspergillus niger to lignocellulose. Biotechnology for Biofuels, 2020, 13, 69.	6.2	4
42	Accumulation of high-value bioproducts <i>in planta</i> can improve the economics of advanced biofuels. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8639-8648.	3.3	57
43	The effect of continuous tubular reactor technologies on the pretreatment of lignocellulosic biomass at pilot-scale for bioethanol production. RSC Advances, 2020, 10, 18147-18159.	1.7	17
44	Scale-up of biomass conversion using 1-ethyl-3-methylimidazolium acetateÂas the solvent. Green Energy and Environment, 2019, 4, 432-438.	4.7	36
45	Greenhouse Gas Footprint, Water-Intensity, and Production Cost of Bio-Based Isopentenol as a Renewable Transportation Fuel. ACS Sustainable Chemistry and Engineering, 2019, 7, 15434-15444.	3.2	16
46	Methyl Ketones from Municipal Solid Waste Blends by Oneâ€Pot Ionicâ€Liquid Pretreatment, Saccharification, and Fermentation. ChemSusChem, 2019, 12, 4313-4322.	3.6	14
47	Ethanol production in switchgrass hydrolysate by ionic liquid-tolerant yeasts. Bioresource Technology Reports, 2019, 7, 100275.	1.5	9
48	A toolset of constitutive promoters for metabolic engineering of Rhodosporidium toruloides. Microbial Cell Factories, 2019, 18, 117.	1.9	50
49	Performance of three delignifying pretreatments on hardwoods: hydrolysis yields, comprehensive mass balances, and lignin properties. Biotechnology for Biofuels, 2019, 12, 213.	6.2	27
50	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. Bioresource Technology, 2019, 294, 122214.	4.8	34
51	NaCl enhances Escherichia coli growth and isoprenol production in the presence of imidazolium-based ionic liquids. Bioresource Technology Reports, 2019, 6, 1-5.	1.5	8
52	Techno-economic analysis and life-cycle greenhouse gas mitigation cost of five routes to bio-jet fuel blendstocks. Energy and Environmental Science, 2019, 12, 807-824.	15.6	109
53	Guanidine Riboswitch-Regulated Efflux Transporters Protect Bacteria against Ionic Liquid Toxicity. Journal of Bacteriology, 2019, 201, .	1.0	17
54	Sustainable bioproduction of the blue pigment indigoidine: Expanding the range of heterologous products in<i>R. toruloides</i>to include non-ribosomal peptides. Green Chemistry, 2019, 21, 3394-3406.	4.6	57

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55	Pilot-scale hydrothermal pretreatment and optimized saccharification enables bisabolene production from multiple feedstocks. Green Chemistry, 2019, 21, 3152-3164.	4.6	24
56	Conversion of depolymerized sugars and aromatics from engineered feedstocks by two oleaginous red yeasts. Bioresource Technology, 2019, 286, 121365.	4.8	23
57	Methyl ketone production by <i>Pseudomonas putida</i> is enhanced by plantâ€derived amino acids. Biotechnology and Bioengineering, 2019, 116, 1909-1922.	1.7	29
58	Engineering Corynebacterium glutamicum to produce the biogasoline isopentenol from plant biomass hydrolysates. Biotechnology for Biofuels, 2019, 12, 41.	6.2	51
59	Technoâ€economic and greenhouse gas analyses of lignin valorization to eugenol and phenolic products in integrated ethanol biorefineries. Biofuels, Bioproducts and Biorefining, 2019, 13, 978-993.	1.9	40
60	Assessment of biogas production and microbial ecology in a high solid anaerobic digestion of major California food processing residues. Bioresource Technology Reports, 2019, 5, 1-11.	1.5	24
61	A new approach to Cas9-based genome editing in Aspergillus niger that is precise, efficient and selectable. PLoS ONE, 2019, 14, e0210243.	1.1	40
62	Tolerance Characterization and Isoprenol Production of Adapted <i>Escherichia coli</i> in the Presence of Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2019, 7, 1457-1463.	3.2	10
63	Structural Design of Ionic Liquids for Optimizing Aromatic Dissolution. ChemSusChem, 2019, 12, 270-274.	3.6	15
64	Dimethyl Sulfoxide Assisted Ionic Liquid Pretreatment of Switchgrass for Isoprenol Production. ACS Sustainable Chemistry and Engineering, 2018, 6, 4354-4361.	3.2	32
65	Characterization of Lignin Streams during Bionic Liquid-Based Pretreatment from Grass, Hardwood, and Softwood. ACS Sustainable Chemistry and Engineering, 2018, 6, 3079-3090.	3.2	70
66	Forward genetics screen coupled with whole-genome resequencing identifies novel gene targets for improving heterologous enzyme production in Aspergillus niger. Applied Microbiology and Biotechnology, 2018, 102, 1797-1807.	1.7	15
67	Linking secondary metabolites to gene clusters through genome sequencing of six diverse <i>Aspergillus</i> species. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E753-E761.	3.3	126
68	Annotation of the Corymbia terpene synthase gene family shows broad conservation but dynamic evolution of physical clusters relative to Eucalyptus. Heredity, 2018, 121, 87-104.	1.2	17
69	Cascade Production of Lactic Acid from Universal Types of Sugars Catalyzed by Lanthanum Triflate. ChemSusChem, 2018, 11, 598-604.	3.6	18
70	Solubilization and Upgrading of High Polyethylene Terephthalate Loadings in a Lowâ€Costing Bifunctional Ionic Liquid. ChemSusChem, 2018, 11, 781-792.	3.6	62
71	A bacterial pioneer produces cellulase complexes that persist through community succession. Nature Microbiology, 2018, 3, 99-107.	5.9	38
72	Rapid characterization of the activities of lignin-modifying enzymes based on nanostructure-initiator mass spectrometry (NIMS). Biotechnology for Biofuels, 2018, 11, 266.	6.2	14

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73	Engineering glycoside hydrolase stability by the introduction of zinc binding. Acta Crystallographica Section D: Structural Biology, 2018, 74, 702-710.	1.1	1
74	Short-chain ketone production by engineered polyketide synthases in Streptomyces albus. Nature Communications, 2018, 9, 4569.	5.8	52
75	Investigation of inter- and intraspecies variation through genome sequencing of Aspergillus section Nigri. Nature Genetics, 2018, 50, 1688-1695.	9.4	160
76	Efficient conversion of lignin into a water-soluble polymer by a chelator-mediated Fenton reaction: optimization of H₂O₂use and performance as a dispersant. Green Chemistry, 2018, 20, 3024-3037.	4.6	36
77	Cloning and Expression of Heterologous Cellulases and Enzymes in Aspergillus niger. Methods in Molecular Biology, 2018, 1796, 123-133.	0.4	0
78	Functional genomics of lipid metabolism in the oleaginous yeast Rhodosporidium toruloides. ELife, 2018, 7, .	2.8	98
79	Natural Variation in the Multidrug Efflux Pump <i>SGE1</i> Underlies Ionic Liquid Tolerance in Yeast. Genetics, 2018, 210, 219-234.	1.2	30
80	Microbial Community Structure and Functional Potential Along a Hypersaline Gradient. Frontiers in Microbiology, 2018, 9, 1492.	1.5	41
81	Biocompatible Choline-Based Deep Eutectic Solvents Enable One-Pot Production of Cellulosic Ethanol. ACS Sustainable Chemistry and Engineering, 2018, 6, 8914-8919.	3.2	63
82	Development of an integrated approach for Î±-pinene recovery and sugar production from loblolly pine using ionic liquids. Green Chemistry, 2017, 19, 1117-1127.	4.6	10
83	Structure and activity of thermophilic methanogenic microbial communities exposed to quaternary ammonium sanitizer. Journal of Environmental Sciences, 2017, 56, 164-168.	3.2	6
84	Nitrogen amendment of green waste impacts microbial community, enzyme secretion and potential for lignocellulose decomposition. Process Biochemistry, 2017, 52, 214-222.	1.8	20
85	Scale-up and process integration of sugar production by acidolysis of municipal solid waste/corn stover blends in ionic liquids. Biotechnology for Biofuels, 2017, 10, 13.	6.2	24
86	Understanding factors controlling depolymerization and polymerization in catalytic degradation of Î²-ether linked model lignin compounds by versatile peroxidase. Green Chemistry, 2017, 19, 2145-2154.	4.6	29
87	Treatment of lignite and thermal coal with low cost amino acid based ionic liquid-water mixtures. Fuel, 2017, 202, 296-306.	3.4	62
88	One-pot integrated biofuel production using low-cost biocompatible protic ionic liquids. Green Chemistry, 2017, 19, 3152-3163.	4.6	115
89	Parametric study for the optimization of ionic liquid pretreatment of corn stover. Bioresource Technology, 2017, 241, 627-637.	4.8	35
90	From lignin subunits to aggregates: insights into lignin solubilization. Green Chemistry, 2017, 19, 3272-3281.	4.6	149

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91	Engineering high-level production of fatty alcohols by Saccharomyces cerevisiae from lignocellulosic feedstocks. Metabolic Engineering, 2017, 42, 115-125.	3.6	97
92	Structure of aryl O-demethylase offers molecular insight into a catalytic tyrosine-dependent mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3205-E3214.	3.3	24
93	Ternary ionic liquidâ€“water pretreatment systems of an agave bagasse and municipal solid waste blend. Biotechnology for Biofuels, 2017, 10, 72.	6.2	22
94	Biomass Pretreatment Using Dilute Aqueous Ionic Liquid (IL) Solutions with Dynamically Varying IL Concentration and Its Impact on IL Recycling. ACS Sustainable Chemistry and Engineering, 2017, 5, 4408-4413.	3.2	25
95	Rhorix: An interface between quantum chemical topology and the 3D graphics program blender. Journal of Computational Chemistry, 2017, 38, 2538-2552.	1.5	8
96	Life-Cycle Greenhouse Gas and Water Intensity of Cellulosic Biofuel Production Using Cholinium Lysinate Ionic Liquid Pretreatment. ACS Sustainable Chemistry and Engineering, 2017, 5, 10176-10185.	3.2	49
97	Survey of Lignin-Structure Changes and Depolymerization during Ionic Liquid Pretreatment. ACS Sustainable Chemistry and Engineering, 2017, 5, 10116-10127.	3.2	77
98	Effect of Ionic Liquid Pretreatment on the Porosity of Pine: Insights from Small-Angle Neutron Scattering, Nitrogen Adsorption Analysis, and X-ray Diffraction. Energy & Fuels, 2017, 31, 10874-10879.	2.5	6
99	Development and characterization of a thermophilic, lignin degrading microbiota. Process Biochemistry, 2017, 63, 193-203.	1.8	29
100	Base-Catalyzed Depolymerization of Solid Lignin-Rich Streams Enables Microbial Conversion. ACS Sustainable Chemistry and Engineering, 2017, 5, 8171-8180.	3.2	115
101	Conversion of cellulose rich municipal solid waste blends using ionic liquids: feedstock convertibility and process scale-up. RSC Advances, 2017, 7, 36585-36593.	1.7	16
102	1-Ethyl-3-methylimidazolium tolerance and intracellular lipid accumulation of 38 oleaginous yeast species. Applied Microbiology and Biotechnology, 2017, 101, 8621-8631.	1.7	9
103	Comparison of soil biosolarization with mesophilic and thermophilic solid digestates on soil microbial quantity and diversity. Applied Soil Ecology, 2017, 119, 183-191.	2.1	18
104	Expression of Aspergillus niger CAZymes is determined by compositional changes in wheat straw generated by hydrothermal or ionic liquid pretreatments. Biotechnology for Biofuels, 2017, 10, 35.	6.2	18
105	Impact of lignin polymer backbone esters on ionic liquid pretreatment of poplar. Biotechnology for Biofuels, 2017, 10, 101.	6.2	48
106	Efficient dehydration and recovery of ionic liquid after lignocellulosic processing using pervaporation. Biotechnology for Biofuels, 2017, 10, 154.	6.2	72
107	Catalytic transfer hydrogenolysis of ionic liquid processed biorefinery lignin to phenolic compounds. Green Chemistry, 2017, 19, 215-224.	4.6	70
108	Sequential enzymatic saccharification and fermentation of ionic liquid and organosolv pretreated agave bagasse for ethanol production. Bioresource Technology, 2017, 225, 191-198.	4.8	44

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109	Dynamic changes of substrate reactivity and enzyme adsorption on partially hydrolyzed cellulose. Biotechnology and Bioengineering, 2017, 114, 503-515.	1.7	24
110	Reply to Kiser: Dioxygen binding in NOV1 crystal structures. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6029-E6030.	3.3	4
111	Expression of naturally ionic liquid-tolerant thermophilic cellulases in Aspergillus niger. PLoS ONE, 2017, 12, e0189604.	1.1	13
112	Generation of a platform strain for ionic liquid tolerance using adaptive laboratory evolution. Microbial Cell Factories, 2017, 16, 204.	1.9	60
113	Rhodosporidium toruloides: a new platform organism for conversion of lignocellulose into terpene biofuels and bioproducts. Biotechnology for Biofuels, 2017, 10, 241.	6.2	150
114	Low cost ionic liquidâ€“water mixtures for effective extraction of carbohydrate and lipid from algae. Faraday Discussions, 2017, 206, 93-112.	1.6	64
115	SbCOMT (Bmr12) is involved in the biosynthesis of tricin-lignin in sorghum. PLoS ONE, 2017, 12, e0178160.	1.1	59
116	Expression of S-adenosylmethionine Hydrolase in Tissues Synthesizing Secondary Cell Walls Alters Specific Methylated Cell Wall Fractions and Improves Biomass Digestibility. Frontiers in Bioengineering and Biotechnology, 2016, 4, 58.	2.0	8
117	Evaluation of Relationships between Growth Rate, Tree Size, Lignocellulose Composition, and Enzymatic Saccharification in Interspecific Corymbia Hybrids and Parental Taxa. Frontiers in Plant Science, 2016, 7, 1705.	1.7	1
118	Structural features affecting the enzymatic digestibility of pine wood pretreated with ionic liquids. Biotechnology and Bioengineering, 2016, 113, 540-549.	1.7	52
119	CO2 enabled process integration for the production of cellulosic ethanol using bionic liquids. Energy and Environmental Science, 2016, 9, 2822-2834.	15.6	63
120	Effect of aging on lignin content, composition and enzymatic saccharification in Corymbia hybrids and parental taxa between years 9 and 12. Biomass and Bioenergy, 2016, 93, 50-59.	2.9	17
121	Structure and mechanism of NOV1, a resveratrol-cleaving dioxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14324-14329.	3.3	50
122	Ionic Liquids Impact the Bioenergy Feedstock-Degrading Microbiome and Transcription of Enzymes Relevant to Polysaccharide Hydrolysis. MSystems, 2016, 1, .	1.7	15
123	Enrichment of microbial communities tolerant to the ionic liquids tetrabutylphosphonium chloride and tributylethylphosphonium diethylphosphate. Applied Microbiology and Biotechnology, 2016, 100, 5639-5652.	1.7	6
124	Nonâ€invasive imaging of cellulose microfibril orientation within plant cell walls by polarized Raman microspectroscopy. Biotechnology and Bioengineering, 2016, 113, 82-90.	1.7	21
125	Structural and Biochemical Characterization of the Early and Late Enzymes in the Lignin Î²-Aryl Ether Cleavage Pathway from Sphingobium sp. SYK-6. Journal of Biological Chemistry, 2016, 291, 10228-10238.	1.6	44
126	Evaluation of agave bagasse recalcitrance using AFEXâ„¢, autohydrolysis, and ionic liquid pretreatments. Bioresource Technology, 2016, 211, 216-223.	4.8	74

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127	Development of an E. coli strain for one-pot biofuel production from ionic liquid pretreated cellulose and switchgrass. Green Chemistry, 2016, 18, 4189-4197.	4.6	52
128	Switchable ionic liquids based on di-carboxylic acids for one-pot conversion of biomass to an advanced biofuel. Green Chemistry, 2016, 18, 4012-4021.	4.6	31
129	Fractional pretreatment of raw and calcium oxalate-extracted agave bagasse using ionic liquid and alkaline hydrogen peroxide. Biomass and Bioenergy, 2016, 91, 48-55.	2.9	29
130	Activation of lignocellulosic biomass for higher sugar yields using aqueous ionic liquid at low severity process conditions. Biotechnology for Biofuels, 2016, 9, 160.	6.2	44
131	Rapid room temperature solubilization and depolymerization of polymeric lignin at high loadings. Green Chemistry, 2016, 18, 6012-6020.	4.6	60
132	Lignin depolymerization by fungal secretomes and a microbial sink. Green Chemistry, 2016, 18, 6046-6062.	4.6	84
133	Comparative Community Proteomics Demonstrates the Unexpected Importance of Actinobacterial Glycoside Hydrolase Family 12 Protein for Crystalline Cellulose Hydrolysis. MBio, 2016, 7, .	1.8	17
134	Sugars Production for Green Chemistry from 2ndÂGeneration Crop (<b>Arundo donax) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	4
135	Ionic liquid-tolerant microorganisms and microbial communities for lignocellulose conversion to bioproducts. Applied Microbiology and Biotechnology, 2016, 100, 10237-10249.	1.7	41
136	Impact of engineered lignin composition on biomass recalcitrance and ionic liquid pretreatment efficiency. Green Chemistry, 2016, 18, 4884-4895.	4.6	64
137	The role of organic matter amendment level on soil heating, organic acid accumulation, and development of bacterial communities in solarized soil. Applied Soil Ecology, 2016, 106, 37-46.	2.1	48
138	Revealing the thermal sensitivity of lignin during glycerol thermal processing through structural analysis. RSC Advances, 2016, 6, 30234-30246.	1.7	22
139	Next-generation ammonia pretreatment enhances cellulosic biofuel production. Energy and Environmental Science, 2016, 9, 1215-1223.	15.6	169
140	Structural Basis of Stereospecificity in the Bacterial Enzymatic Cleavage of Î²-Aryl Ether Bonds in Lignin. Journal of Biological Chemistry, 2016, 291, 5234-5246.	1.6	40
141	Transforming biomass conversion with ionic liquids: process intensification and the development of a high-gravity, one-pot process for the production of cellulosic ethanol. Energy and Environmental Science, 2016, 9, 1042-1049.	15.6	201
142	MaxBin 2.0: an automated binning algorithm to recover genomes from multiple metagenomic datasets. Bioinformatics, 2016, 32, 605-607.	1.8	1,574
143	Refining the phylum Chlorobi by resolving the phylogeny and metabolic potential of the representative of a deeply branching, uncultivated lineage. ISME Journal, 2016, 10, 833-845.	4.4	62
144	The DOE Bioenergy Research Centers: History, Operations, and Scientific Output. Bioenergy Research, 2015, 8, 881-896.	2.2	8

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145	Restricting lignin and enhancing sugar deposition in secondary cell walls enhances monomeric sugar release after low temperature ionic liquid pretreatment. Biotechnology for Biofuels, 2015, 8, 95.	6.2	9
146	Preservation of microbial communities enriched on lignocellulose under thermophilic and high-solid conditions. Biotechnology for Biofuels, 2015, 8, 206.	6.2	22
147	Development of a High Throughput Platform for Screening Glycoside Hydrolases Based on Oxime-NIMS. Frontiers in Bioengineering and Biotechnology, 2015, 3, 153.	2.0	14
148	Potential for Genetic Improvement of Sugarcane as a Source of Biomass for Biofuels. Frontiers in Bioengineering and Biotechnology, 2015, 3, 182.	2.0	109
149	Efficient Eucalypt Cell Wall Deconstruction and Conversion for Sustainable Lignocellulosic Biofuels. Frontiers in Bioengineering and Biotechnology, 2015, 3, 190.	2.0	18
150	Genomic Analysis of Xylose Metabolism in Members of the Deinoccocus-Thermus Phylum from Thermophilic Biomass-Deconstructing Bacterial Consortia. Bioenergy Research, 2015, 8, 1031-1038.	2.2	4
151	Recent innovations in analytical methods for the qualitative and quantitative assessment of lignin. Renewable and Sustainable Energy Reviews, 2015, 49, 871-906.	8.2	282
152	Expression of a bacterial 3â€dehydroshikimate dehydratase reduces lignin content and improves biomass saccharification efficiency. Plant Biotechnology Journal, 2015, 13, 1241-1250.	4.1	90
153	High-Throughput Prediction of Acacia and Eucalypt Lignin Syringyl/Guaiacyl Content Using FT-Raman Spectroscopy and Partial Least Squares Modeling. Bioenergy Research, 2015, 8, 953-963.	2.2	9
154	Scale-Up of Ionic Liquid-Based Fractionation of Single and Mixed Feedstocks. Bioenergy Research, 2015, 8, 982-991.	2.2	33
155	Calorimetric evaluation indicates that lignin conversion to advanced biofuels is vital to improving energy yields. RSC Advances, 2015, 5, 51092-51101.	1.7	11
156	Impact of Pretreatment Technologies on Saccharification and Isopentenol Fermentation of Mixed Lignocellulosic Feedstocks. Bioenergy Research, 2015, 8, 1004-1013.	2.2	40
157	An Investigation on the Economic Feasibility of Macroalgae as a Potential Feedstock for Biorefineries. Bioenergy Research, 2015, 8, 1046-1056.	2.2	92
158	Blending municipal solid waste with corn stover for sugar production using ionic liquid process. Bioresource Technology, 2015, 186, 200-206.	4.8	28
159	Characterization of agave bagasse as a function ofÂionic liquid pretreatment. Biomass and Bioenergy, 2015, 75, 180-188.	2.9	74
160	Comparison of Different Biomass Pretreatment Techniques and Their Impact on Chemistry and Structure. Frontiers in Energy Research, 2015, 2, .	1.2	118
161	Theoretical Insights into the Role of Water in the Dissolution of Cellulose Using IL/Water Mixed Solvent Systems. Journal of Physical Chemistry B, 2015, 119, 14339-14349.	1.2	46
162	Assay for lignin breakdown based on lignin films: insights into the Fenton reaction with insoluble lignin. Green Chemistry, 2015, 17, 4830-4845.	4.6	10

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163	How Alkyl Chain Length of Alcohols Affects Lignin Fractionation and Ionic Liquid Recycle During Lignocellulose Pretreatment. Bioenergy Research, 2015, 8, 973-981.	2.2	17
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