

# 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	MaxBin 2.0: an automated binning algorithm to recover genomes from multiple metagenomic datasets. <i>Bioinformatics</i> , 2016, 32, 605-607.	1.8	1,574
2	Comparison of dilute acid and ionic liquid pretreatment of switchgrass: Biomass recalcitrance, delignification and enzymatic saccharification. <i>Bioresource Technology</i> , 2010, 101, 4900-4906.	4.8	926
3	The challenge of enzyme cost in the production of lignocellulosic biofuels. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1083-1087.	1.7	792
4	Influence of Connectivity and Porosity on Ligand-Based Luminescence in Zinc Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2007, 129, 7136-7144.	6.6	625
5	MaxBin: an automated binning method to recover individual genomes from metagenomes using an expectation-maximization algorithm. <i>Microbiome</i> , 2014, 2, 26.	4.9	521
6	The Status, Quality, and Expansion of the NIH Full-Length cDNA Project: The Mammalian Gene Collection (MGC). <i>Genome Research</i> , 2004, 14, 2121-2127.	2.4	486
7	Dielectrophoretic Concentration and Separation of Live and Dead Bacteria in an Array of Insulators. <i>Analytical Chemistry</i> , 2004, 76, 1571-1579.	3.2	429
8	Design of low-cost ionic liquids for lignocellulosic biomass pretreatment. <i>Green Chemistry</i> , 2015, 17, 1728-1734.	4.6	384
9	In vivo lipidomics using single-cell Raman spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3809-3814.	3.3	378
10	Transition of Cellulose Crystalline Structure and Surface Morphology of Biomass as a Function of Ionic Liquid Pretreatment and Its Relation to Enzymatic Hydrolysis. <i>Biomacromolecules</i> , 2011, 12, 933-941.	2.6	373
11	Visualization of biomass solubilization and cellulose regeneration during ionic liquid pretreatment of switchgrass. <i>Biotechnology and Bioengineering</i> , 2009, 104, 68-75.	1.7	354
12	A single-base resolution map of an archaeal transcriptome. <i>Genome Research</i> , 2010, 20, 133-141.	2.4	348
13	Synthesis of three advanced biofuels from ionic liquid-pretreated switchgrass using engineered <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19949-19954.	3.3	333
14	Insulator-based dielectrophoresis for the selective concentration and separation of live bacteria in water. <i>Electrophoresis</i> , 2004, 25, 1695-1704.	1.3	313
15	Techno-economic analysis of a lignocellulosic ethanol biorefinery with ionic liquid pretreatment. <i>Biofuels, Bioproducts and Biorefining</i> , 2011, 5, 562-569.	1.9	303
16	Understanding the Interactions of Cellulose with Ionic Liquids: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4293-4301.	1.2	299
17	A mosaic monoploid reference sequence for the highly complex genome of sugarcane. <i>Nature Communications</i> , 2018, 9, 2638.	5.8	299
18	Efficient biomass pretreatment using ionic liquids derived from lignin and hemicellulose. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3587-95.	3.3	285

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19	Recent innovations in analytical methods for the qualitative and quantitative assessment of lignin. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 49, 871-906.	8.2	282
20	Biomass pretreatment using deep eutectic solvents from lignin derived phenols. <i>Green Chemistry</i> , 2018, 20, 809-815.	4.6	235
21	Advances in modifying lignin for enhanced biofuel production. <i>Current Opinion in Plant Biology</i> , 2010, 13, 312-319.	3.5	211
22	Ionic liquid tolerant hyperthermophilic cellulases for biomass pretreatment and hydrolysis. <i>Green Chemistry</i> , 2010, 12, 338.	4.6	211
23	Human ORFeome Version 1.1: A Platform for Reverse Proteomics. <i>Genome Research</i> , 2004, 14, 2128-2135.	2.4	208
24	Morphology of CdS Nanocrystals Synthesized in a Mixed Surfactant System. <i>Nano Letters</i> , 2002, 2, 263-268.	4.5	207
25	Influence of physico-chemical changes on enzymatic digestibility of ionic liquid and AFEX pretreated corn stover. <i>Bioresource Technology</i> , 2011, 102, 6928-6936.	4.8	203
26	From lignin association to nano-/micro-particle preparation: extracting higher value of lignin. <i>Green Chemistry</i> , 2016, 18, 5693-5700.	4.6	203
27	Transforming biomass conversion with ionic liquids: process intensification and the development of a high-gravity, one-pot process for the production of cellulosic ethanol. <i>Energy and Environmental Science</i> , 2016, 9, 1042-1049.	15.6	201
28	A comparative study of ethanol production using dilute acid, ionic liquid and AFEX pretreated corn stover. <i>Biotechnology for Biofuels</i> , 2014, 7, 72.	6.2	199
29	Overexpression of the maize <i>Corngrass1</i> microRNA prevents flowering, improves digestibility, and increases starch content of switchgrass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17550-17555.	3.3	185
30	Characterization of Trapped Lignin-Degrading Microbes in Tropical Forest Soil. <i>PLoS ONE</i> , 2011, 6, e19306.	1.1	178
31	One-pot ionic liquid pretreatment and saccharification of switchgrass. <i>Green Chemistry</i> , 2013, 15, 2579.	4.6	175
32	Targeted Discovery of Glycoside Hydrolases from a Switchgrass-Adapted Compost Community. <i>PLoS ONE</i> , 2010, 5, e8812.	1.1	170
33	Next-generation ammonia pretreatment enhances cellulosic biofuel production. <i>Energy and Environmental Science</i> , 2016, 9, 1215-1223.	15.6	169
34	An insulator-based (electrodeless) dielectrophoretic concentrator for microbes in water. <i>Journal of Microbiological Methods</i> , 2005, 62, 317-326.	0.7	163
35	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
36	Technoeconomic analysis of biofuels: A wiki-based platform for lignocellulosic biorefineries. <i>Biomass and Bioenergy</i> , 2010, 34, 1914-1921.	2.9	153

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37	Supramolecular Self-Assembled Chaos: Polyphenolic Lignin™s Barrier to Cost-Effective Lignocellulosic Biofuels. <i>Molecules</i> , 2010, 15, 8641-8688.	1.7	151
38	Survey of renewable chemicals produced from lignocellulosic biomass during ionic liquid pretreatment. <i>Biotechnology for Biofuels</i> , 2013, 6, 14.	6.2	151
39	<i>Rhodospiridium toruloides</i> : a new platform organism for conversion of lignocellulose into terpene biofuels and bioproducts. <i>Biotechnology for Biofuels</i> , 2017, 10, 241.	6.2	150
40	Triacylglycerol accumulation and profiling in the model diatoms <i>Thalassiosira pseudonana</i> and <i>Phaeodactylum tricornutum</i> (Baccilariophyceae) during starvation. <i>Journal of Applied Phycology</i> , 2009, 21, 669-681.	1.5	149
41	From lignin subunits to aggregates: insights into lignin solubilization. <i>Green Chemistry</i> , 2017, 19, 3272-3281.	4.6	149
42	Next-generation biomass feedstocks for biofuel production. <i>Genome Biology</i> , 2008, 9, 242.	13.9	144
43	Biomass deconstruction to sugars. <i>Biotechnology Journal</i> , 2011, 6, 1086-1102.	1.8	140
44	Biosynthesis and incorporation of side-chain-truncated lignin monomers to reduce lignin polymerization and enhance saccharification. <i>Plant Biotechnology Journal</i> , 2012, 10, 609-620.	4.1	140
45	Impact of ionic liquid pretreated plant biomass on <i>Saccharomyces cerevisiae</i> growth and biofuel production. <i>Green Chemistry</i> , 2011, 13, 2743.	4.6	139
46	Understanding pretreatment efficacy of four cholinium and imidazolium ionic liquids by chemistry and computation. <i>Green Chemistry</i> , 2014, 16, 2546-2557.	4.6	138
47	Lignin fate and characterization during ionic liquid biomass pretreatment for renewable chemicals and fuels production. <i>Green Chemistry</i> , 2014, 16, 1236-1247.	4.6	137
48	Machine learning for metabolic engineering: A review. <i>Metabolic Engineering</i> , 2021, 63, 34-60.	3.6	135
49	The effect of ionic liquid cation and anion combinations on the macromolecular structure of lignins. <i>Green Chemistry</i> , 2011, 13, 3375.	4.6	134
50	Understanding the impact of ionic liquid pretreatment on eucalyptus. <i>Biofuels</i> , 2010, 1, 33-46.	1.4	129
51	Understanding the role of water during ionic liquid pretreatment of lignocellulose: co-solvent or anti-solvent?. <i>Green Chemistry</i> , 2014, 16, 3830-3840.	4.6	129
52	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
53	The completion of the Mammalian Gene Collection (MGC). <i>Genome Research</i> , 2009, 19, 2324-2333.	2.4	125
54	A comparative genomics study of 23 <i>Aspergillus</i> species from section Flavi. <i>Nature Communications</i> , 2020, 11, 1106.	5.8	125

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55	Mechanical properties of cubic zinc carboxylate IRMOF-1 metal-organic framework crystals. <i>Physical Review B</i> , 2007, 76, .	1.1	124
56	A facile method for the recovery of ionic liquid and lignin from biomass pretreatment. <i>Green Chemistry</i> , 2011, 13, 3255.	4.6	124
57	Impact of Ionic Liquid Pretreatment Conditions on Cellulose Crystalline Structure Using 1-Ethyl-3-methylimidazolium Acetate. <i>Journal of Physical Chemistry B</i> , 2012, 116, 10049-10054.	1.2	121
58	Understanding cost drivers and economic potential of two variants of ionic liquid pretreatment for cellulosic biofuel production. <i>Biotechnology for Biofuels</i> , 2014, 7, 86.	6.2	120
59	Comparison of Different Biomass Pretreatment Techniques and Their Impact on Chemistry and Structure. <i>Frontiers in Energy Research</i> , 2015, 2, .	1.2	118
60	One-pot integrated biofuel production using low-cost biocompatible protic ionic liquids. <i>Green Chemistry</i> , 2017, 19, 3152-3163.	4.6	115
61	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
62	Monitoring and Analyzing Process Streams Towards Understanding Ionic Liquid Pretreatment of Switchgrass ( <i>Panicum virgatum</i> L.). <i>Bioenergy Research</i> , 2010, 3, 134-145.	2.2	114
63	Recovery of Sugars from Ionic Liquid Biomass Liquor by Solvent Extraction. <i>Bioenergy Research</i> , 2010, 3, 123-133.	2.2	112
64	Identification of a haloalkaliphilic and thermostable cellulase with improved ionic liquid tolerance. <i>Green Chemistry</i> , 2011, 13, 2083.	4.6	111
65	Assessment of Lignocellulosic Biomass Using Analytical Spectroscopy: an Evolution to High-Throughput Techniques. <i>Bioenergy Research</i> , 2014, 7, 1-23.	2.2	111
66	The ORFeome Collaboration: a genome-scale human ORF-clone resource. <i>Nature Methods</i> , 2016, 13, 191-192.	9.0	111
67	Microstructure Determination of AOT + Phenol Organogels Utilizing Small-Angle X-ray Scattering and Atomic Force Microscopy. <i>Journal of the American Chemical Society</i> , 2001, 123, 2414-2421.	6.6	110
68	Potential for Genetic Improvement of Sugarcane as a Source of Biomass for Biofuels. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 182.	2.0	109
69	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
70	Enzyme activities of aerobic lignocellulolytic bacteria isolated from wet tropical forest soils. <i>Systematic and Applied Microbiology</i> , 2014, 37, 60-67.	1.2	103
71	Strategies for Enhancing the Effectiveness of Metagenomic-based Enzyme Discovery in Lignocellulolytic Microbial Communities. <i>Bioenergy Research</i> , 2010, 3, 146-158.	2.2	100
72	Glycoside Hydrolase Activities of Thermophilic Bacterial Consortia Adapted to Switchgrass. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5804-5812.	1.4	99

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73	Comparing the Recalcitrance of Eucalyptus, Pine, and Switchgrass Using Ionic Liquid and Dilute Acid Pretreatments. <i>Bioenergy Research</i> , 2013, 6, 14-23.	2.2	99
74	Functional genomics of lipid metabolism in the oleaginous yeast <i>Rhodospiridium toruloides</i> . <i>ELife</i> , 2018, 7, .	2.8	98
75	A Thermophilic Ionic Liquid-Tolerant Cellulase Cocktail for the Production of Cellulosic Biofuels. <i>PLoS ONE</i> , 2012, 7, e37010.	1.1	98
76	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
77	Scale-up and evaluation of high solid ionic liquid pretreatment and enzymatic hydrolysis of switchgrass. <i>Biotechnology for Biofuels</i> , 2013, 6, 154.	6.2	94
78	The zeta potential of cyclo-olefin polymer microchannels and its effects on insulative (electrodeless) dielectrophoresis particle trapping devices. <i>Electrophoresis</i> , 2005, 26, 1792-1799.	1.3	93
79	Evidence supporting dissimilatory and assimilatory lignin degradation in <i>Enterobacter lignolyticus</i> SCF1. <i>Frontiers in Microbiology</i> , 2013, 4, 280.	1.5	92
80	An Investigation on the Economic Feasibility of Macroalgae as a Potential Feedstock for Biorefineries. <i>Bioenergy Research</i> , 2015, 8, 1046-1056.	2.2	92
81	Engineering and Two-Stage Evolution of a Lignocellulosic Hydrolysate-Tolerant <i>Saccharomyces cerevisiae</i> Strain for Anaerobic Fermentation of Xylose from AFEX Pretreated Corn Stover. <i>PLoS ONE</i> , 2014, 9, e107499.	1.1	91
82	Expression of a bacterial 3-oxo-2-oxopropionyl-CoA dehydroshikimate dehydratase reduces lignin content and improves biomass saccharification efficiency. <i>Plant Biotechnology Journal</i> , 2015, 13, 1241-1250.	4.1	90
83	Exploring the effect of different plant lignin content and composition on ionic liquid pretreatment efficiency and enzymatic saccharification of <i>Eucalyptus globulus</i> L. mutants. <i>Bioresource Technology</i> , 2012, 117, 352-359.	4.8	89
84	Recent developments in materials synthesis in surfactant systems. <i>Current Opinion in Colloid and Interface Science</i> , 2002, 7, 288-295.	3.4	88
85	Low-temperature combustion chemistry of biofuels: pathways in the initial low-temperature (550 Tj ETQq1 1 0.784314 rgBT/Overlo	1.3	88
86	<i>Thermoascus aurantiacus</i> is a promising source of enzymes for biomass deconstruction under thermophilic conditions. <i>Biotechnology for Biofuels</i> , 2012, 5, 54.	6.2	88
87	The impact of ionic liquid pretreatment on the chemistry and enzymatic digestibility of <i>Pinus radiata</i> compression wood. <i>Green Chemistry</i> , 2012, 14, 778.	4.6	87
88	Theory, practice and prospects of X-ray and neutron scattering for lignocellulosic biomass characterization: towards understanding biomass pretreatment. <i>Energy and Environmental Science</i> , 2015, 8, 436-455.	15.6	87
89	Global transcriptome response to ionic liquid by a tropical rain forest soil bacterium, <i>Enterobacter lignolyticus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2173-82.	3.3	85
90	Impact of high biomass loading on ionic liquid pretreatment. <i>Biotechnology for Biofuels</i> , 2013, 6, 52.	6.2	85

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91	An auto-inducible mechanism for ionic liquid resistance in microbial biofuel production. <i>Nature Communications</i> , 2014, 5, 3490.	5.8	85
92	Lignin depolymerization by fungal secretomes and a microbial sink. <i>Green Chemistry</i> , 2016, 18, 6046-6062.	4.6	84
93	Three Novel Rice Genes Closely Related to the Arabidopsis IRX9, IRX9L, and IRX14 Genes and Their Roles in Xylan Biosynthesis. <i>Frontiers in Plant Science</i> , 2013, 4, 83.	1.7	83
94	Comparison of the impact of ionic liquid pretreatment on recalcitrance of agave bagasse and switchgrass. <i>Bioresource Technology</i> , 2013, 127, 18-24.	4.8	82
95	Modifying plants for biofuel and biomaterial production. <i>Plant Biotechnology Journal</i> , 2014, 12, 1246-1258.	4.1	82
96	MOF-Based Catalysts for Selective Hydrogenolysis of Carbon-Oxygen Ether Bonds. <i>ACS Catalysis</i> , 2016, 6, 55-59.	5.5	82
97	Comparison of enzymatic reactivity of corn stover solids prepared by dilute acid, AFEX, and ionic liquid pretreatments. <i>Biotechnology for Biofuels</i> , 2014, 7, 71.	6.2	81
98	Molecular Dynamics Study of Polysaccharides in Binary Solvent Mixtures of an Ionic Liquid and Water. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10251-10258.	1.2	80
99	Impact of mixed feedstocks and feedstock densification on ionic liquid pretreatment efficiency. <i>Biofuels</i> , 2013, 4, 63-72.	1.4	80
100	Sample concentration and impedance detection on a microfluidic polymer chip. <i>Biomedical Microdevices</i> , 2008, 10, 661-670.	1.4	79
101	Phylogenomically Guided Identification of Industrially Relevant GH1 $\beta$ -Glucosidases through DNA Synthesis and Nanostructure-Initiator Mass Spectrometry. <i>ACS Chemical Biology</i> , 2014, 9, 2082-2091.	1.6	78
102	Community dynamics of cellulose-adapted thermophilic bacterial consortia. <i>Environmental Microbiology</i> , 2013, 15, 2573-2587.	1.8	77
103	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
104	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
105	Complete genome sequence of <i>Enterobacter lignolyticus</i> -SCF1. <i>Standards in Genomic Sciences</i> , 2011, 5, 69-85.	1.5	76
106	Thermally Cleavable Surfactants Based on Furan-Maleimide Diels-Alder Adducts. <i>Langmuir</i> , 2005, 21, 3259-3266.	1.6	75
107	Characterization of agave bagasse as a function of ionic liquid pretreatment. <i>Biomass and Bioenergy</i> , 2015, 75, 180-188.	2.9	74
108	Evaluation of agave bagasse recalcitrance using AFEX, autohydrolysis, and ionic liquid pretreatments. <i>Bioresource Technology</i> , 2016, 211, 216-223.	4.8	74

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109	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
110	Efficient dehydration and recovery of ionic liquid after lignocellulosic processing using pervaporation. <i>Biotechnology for Biofuels</i> , 2017, 10, 154.	6.2	72
111	Characteristics of Isopentanol as a Fuel for HCCI Engines. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 3, 725-741.	0.2	71
112	A droplet-to-digital (D2D) microfluidic device for single cell assays. <i>Lab on A Chip</i> , 2015, 15, 225-236.	3.1	70
113	Catalytic transfer hydrogenolysis of ionic liquid processed biorefinery lignin to phenolic compounds. <i>Green Chemistry</i> , 2017, 19, 215-224.	4.6	70
114	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
115	Biochemical characterization and crystal structure of endoglucanase Cel5A from the hyperthermophilic <i>Thermotoga maritima</i> . <i>Journal of Structural Biology</i> , 2010, 172, 372-379.	1.3	65
116	Understanding tissue specific compositions of bioenergy feedstocks through hyperspectral Raman imaging. <i>Biotechnology and Bioengineering</i> , 2011, 108, 286-295.	1.7	65
117	Discovery and characterization of ionic liquid-tolerant thermophilic cellulases from a switchgrass-adapted microbial community. <i>Biotechnology for Biofuels</i> , 2014, 7, 15.	6.2	65
118	New Experimental Density Data and Soft-SAFT Models of Alkylimidazolium ([C <sub>n</sub> Im] <sup>+</sup> ) Chloride (Cl <sup>-</sup> ), Methylsulfate ([MeSO <sub>4</sub> ] <sup>-</sup> ), and Dimethylphosphate ([Me <sub>2</sub> PO <sub>4</sub> ] <sup>-</sup> ) Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6206-6221.	1.2	65
119	Comparison of different pretreatments for the production of bioethanol and biomethane from corn stover and switchgrass. <i>Bioresource Technology</i> , 2015, 183, 101-110.	4.8	65
120	Impact of engineered lignin composition on biomass recalcitrance and ionic liquid pretreatment efficiency. <i>Green Chemistry</i> , 2016, 18, 4884-4895.	4.6	64
121	Low cost ionic liquid-water mixtures for effective extraction of carbohydrate and lipid from algae. <i>Faraday Discussions</i> , 2017, 206, 93-112.	1.6	64
122	Addition of a carbohydrate-binding module enhances cellulase penetration into cellulose substrates. <i>Biotechnology for Biofuels</i> , 2013, 6, 93.	6.2	63
123	CO <sub>2</sub> enabled process integration for the production of cellulosic ethanol using bionic liquids. <i>Energy and Environmental Science</i> , 2016, 9, 2822-2834.	15.6	63
124	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
125	Production and extraction of sugars from switchgrass hydrolyzed in ionic liquids. <i>Biotechnology for Biofuels</i> , 2013, 6, 39.	6.2	62
126	Proteogenomic Analysis of a Thermophilic Bacterial Consortium Adapted to Deconstruct Switchgrass. <i>PLoS ONE</i> , 2013, 8, e68465.	1.1	62



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127	Refining the phylum Chlorobi by resolving the phylogeny and metabolic potential of the representative of a deeply branching, uncultivated lineage. <i>ISME Journal</i> , 2016, 10, 833-845.	4.4	62
128	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
129	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
130	Simulations Reveal Conformational Changes of Methylhydroxyl Groups during Dissolution of Cellulose I <sub>2</sub> in Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8131-8138.	1.2	61
131	Understanding changes in lignin of <i>Panicum virgatum</i> and <i>Eucalyptus globulus</i> as a function of ionic liquid pretreatment. <i>Bioresource Technology</i> , 2012, 126, 156-161.	4.8	60
132	Rapid determination of syringyl: Guaiacyl ratios using FT-Raman spectroscopy. <i>Biotechnology and Bioengineering</i> , 2012, 109, 647-656.	1.7	60
133	Rapid room temperature solubilization and depolymerization of polymeric lignin at high loadings. <i>Green Chemistry</i> , 2016, 18, 6012-6020.	4.6	60
134	Generation of a platform strain for ionic liquid tolerance using adaptive laboratory evolution. <i>Microbial Cell Factories</i> , 2017, 16, 204.	1.9	60
135	SbCOMT (Bmr12) is involved in the biosynthesis of triclin-lignin in sorghum. <i>PLoS ONE</i> , 2017, 12, e0178160.	1.1	59
136	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
137	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
138	Understanding the impact of ionic liquid pretreatment on cellulose and lignin via thermochemical analysis. <i>Biomass and Bioenergy</i> , 2013, 54, 276-283.	2.9	55
139	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
140	Structural features affecting the enzymatic digestibility of pine wood pretreated with ionic liquids. <i>Biotechnology and Bioengineering</i> , 2016, 113, 540-549.	1.7	52
141	Development of an <i>E. coli</i> strain for one-pot biofuel production from ionic liquid pretreated cellulose and switchgrass. <i>Green Chemistry</i> , 2016, 18, 4189-4197.	4.6	52
142	Short-chain ketone production by engineered polyketide synthases in <i>Streptomyces albus</i> . <i>Nature Communications</i> , 2018, 9, 4569.	5.8	52
143	Unveiling high-resolution, tissue specific dynamic changes in corn stover during ionic liquid pretreatment. <i>RSC Advances</i> , 2013, 3, 2017-2027.	1.7	51
144	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

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145	Spatial Compartmentalization of Nanoparticles into Strands of a Self-Assembled Organogel. <i>Nano Letters</i> , 2002, 2, 1037-1042.	4.5	50
146	Functional Antibody Immobilization on 3-Dimensional Polymeric Surfaces Generated by Reactive Ion Etching. <i>Langmuir</i> , 2005, 21, 7621-7625.	1.6	50
147	Vibrational Spectra of Methane Clathrate Hydrates from Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6428-6431.	1.2	50
148	Low-distortion, high-strength bonding of thermoplastic microfluidic devices employing case-II diffusion-mediated permeant activation. <i>Lab on A Chip</i> , 2007, 7, 1825.	3.1	50
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