Jack Saddler

List of Publications by Citations

137 papers	12,902 citations	53 h-index	113 g-index
138 ext. papers	14,332 ext. citations	6.9 avg, IF	6.63 L-index

#	Paper	IF	Citations
137	Lignin valorization: improving lignin processing in the biorefinery. *Science*, **2014**, 344, 1246843	33.3	2274
136	An overview of second generation biofuel technologies. *Bioresource Technology*, **2010**, 101, 1570-80	11	1024
135	Substrate and Enzyme Characteristics that Limit Cellulose Hydrolysis. *Biotechnology Progress*, **1999**, 15, 804-816	2.8	620
134	Inhibition of cellulase, xylanase and beta-glucosidase activities by softwood lignin preparations. *Journal of Biotechnology*, **2006**, 125, 198-209	3.7	515
133	Organosolv ethanol lignin from hybrid poplar as a radical scavenger: relationship between lignin structure, extraction conditions, and antioxidant activity. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 5806-13	5.7	468
132	Bioconversion of hybrid poplar to ethanol and co-products using an organosolv fractionation process: optimization of process yields. *Biotechnology and Bioengineering*, **2006**, 94, 851-61	4.9	369
131	The effect of initial pore volume and lignin content on the enzymatic hydrolysis of softwoods. *Bioresource Technology*, **1998**, 64, 113-119	11	348
130	Optimization of enzyme complexes for lignocellulose hydrolysis. *Biotechnology and Bioengineering*, **2007**, 97, 287-96	4.9	307
129	The lignin present in steam pretreated softwood binds enzymes and limits cellulose accessibility. *Bioresource Technology*, **2012**, 103, 201-8	11	300
128	The enhancement of enzymatic hydrolysis of lignocellulosic substrates by the addition of accessory enzymes such as xylanase: is it an additive or synergistic effect?. *Biotechnology for Biofuels*, **2011**, 4, 36	7.8	286
127	Cellulose accessibility limits the effectiveness of minimum cellulase loading on the efficient hydrolysis of pretreated lignocellulosic substrates. *Biotechnology for Biofuels*, **2011**, 4, 3	7.8	217
126	Enhancing the enzymatic hydrolysis of lignocellulosic biomass by increasing the carboxylic acid content of the associated lignin. *Biotechnology and Bioengineering*, **2011**, 108, 538-48	4.9	182
125	The effect of isolated lignins, obtained from a range of pretreated lignocellulosic substrates, on enzymatic hydrolysis. *Biotechnology and Bioengineering*, **2010**, 105, 871-9	4.9	178
124	Strategies to enhance the enzymatic hydrolysis of pretreated softwood with high residual lignin content. *Applied Biochemistry and Biotechnology*, **2005**, 121-124, 1069-79	3.2	175
123	The isolation, characterization and effect of lignin isolated from steam pretreated Douglas-fir on the enzymatic hydrolysis of cellulose. *Bioresource Technology*, **2011**, 102, 4507-17	11	172
122	Cellulase adsorption and an evaluation of enzyme recycle during hydrolysis of steam-exploded softwood residues. *Applied Biochemistry and Biotechnology*, **2002**, 98-100, 641-54	3.2	171
121	The synergistic action of accessory enzymes enhances the hydrolytic potential of a "cellulase mixture" but is highly substrate specific. *Biotechnology for Biofuels*, **2013**, 6, 112	7.8	163

120	Substrate factors that influence the synergistic interaction of AA9 and cellulases during the enzymatic hydrolysis of biomass. *Energy and Environmental Science*, **2014**, 7, 2308-2315	35.4	162
119	The characterization of pretreated lignocellulosic substrates prior to enzymatic hydrolysis, part 1: a modified Simons' staining technique. *Biotechnology Progress*, **2008**, 24, 1178-85	2.8	151
118	Evaluating the distribution of cellulases and the recycling of free cellulases during the hydrolysis of lignocellulosic substrates. *Biotechnology Progress*, **2007**, 23, 398-406	2.8	149
117	Lignin valorization: lignin nanoparticles as high-value bio-additive for multifunctional nanocomposites. *Biotechnology for Biofuels*, **2017**, 10, 192	7.8	147
116	Adsorption of cellulase on cellulolytic enzyme lignin from lodgepole pine. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 7771-8	5.7	145
115	Influence of xylan on the enzymatic hydrolysis of steam-pretreated corn stover and hybrid poplar. *Biotechnology Progress*, **2009**, 25, 315-22	2.8	141
114	The bioconversion of mountain pine beetle-killed lodgepole pine to fuel ethanol using the organosolv process. *Biotechnology and Bioengineering*, **2008**, 101, 39-48	4.9	139
113	Trichoderma Xylanases, Their Properties and Application. *Critical Reviews in Biotechnology*, **1992**, 12, 413-435	9.4	139
112	Acid-catalyzed steam pretreatment of lodgepole pine and subsequent enzymatic hydrolysis and fermentation to ethanol. *Biotechnology and Bioengineering*, **2007**, 98, 737-46	4.9	138
111	Effect of replacing polyol by organosolv and kraft lignin on the property and structure of rigid polyurethane foam. *Biotechnology for Biofuels*, **2013**, 6, 12	7.8	133
110	Fast and efficient alkaline peroxide treatment to enhance the enzymatic digestibility of steam-exploded softwood substrates. *Biotechnology and Bioengineering*, **2002**, 77, 678-84	4.9	124
109	Do enzymatic hydrolyzability and Simons' stain reflect the changes in the accessibility of lignocellulosic substrates to cellulase enzymes?. *Biotechnology Progress*, **2001**, 17, 1049-54	2.8	124
108	Evaluation of cellulase recycling strategies for the hydrolysis of lignocellulosic substrates. *Biotechnology and Bioengineering*, **1995**, 45, 328-36	4.9	121
107	The addition of accessory enzymes enhances the hydrolytic performance of cellulase enzymes at high solid loadings. *Bioresource Technology*, **2015**, 186, 149-153	11	119
106	Factors affecting cellulose hydrolysis and the potential of enzyme recycle to enhance the efficiency of an integrated wood to ethanol process. *Biotechnology and Bioengineering*, **1996**, 51, 375-83	4.9	102
105	Factors affecting cellulose hydrolysis and the potential of enzyme recycle to enhance the efficiency of an integrated wood to ethanol process **1996**, 51, 375		102
104	High consistency enzymatic hydrolysis of hardwood substrates. *Bioresource Technology*, **2009**, 100, 5890-7	11	97
103	Influence of steam pretreatment severity on post-treatments used to enhance the enzymatic hydrolysis of pretreated softwoods at low enzyme loadings. *Biotechnology and Bioengineering*, **2011**, 108, 2300-11	4.9	93

102	A techno-economic assessment of the pretreatment and fractionation steps of a biomass-to-ethanol process. *Applied Biochemistry and Biotechnology*, **1996**, 57-58, 711-727	3.2	93
101	A comparison of various lignin-extraction methods to enhance the accessibility and ease of enzymatic hydrolysis of the cellulosic component of steam-pretreated poplar. *Biotechnology for Biofuels*, **2017**, 10, 157	7.8	89
100	Accessory enzymes influence cellulase hydrolysis of the model substrate and the realistic lignocellulosic biomass. *Enzyme and Microbial Technology*, **2015**, 79-80, 42-8	3.8	86
99	The effect of fiber characteristics on hydrolysis and cellulase accessibility to softwood substrates. *Enzyme and Microbial Technology*, **1999**, 25, 644-650	3.8	84
98	Fermentability of the hemicellulose-derived sugars from steam-exploded softwood (douglas fir). *Biotechnology and Bioengineering*, **1999**, 64, 284-9	4.9	79
97	Valorizing Recalcitrant Cellulolytic Enzyme Lignin via Lignin Nanoparticles Fabrication in an Integrated Biorefinery. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 2702-2710	8.3	77
96	Steam pretreatment of Douglas-fir wood chips. Can conditions for optimum hemicellulose recovery still provide adequate access for efficient enzymatic hydrolysis?. *Applied Biochemistry and Biotechnology*, **2000**, 84-86, 693-705	3.2	77
95	Can the same steam pretreatment conditions be used for most softwoods to achieve good, enzymatic hydrolysis and sugar yields?. *Bioresource Technology*, **2010**, 101, 7827-33	11	76
94	SO2-catalyzed steam explosion of corn fiber for ethanol production. *Applied Biochemistry and Biotechnology*, **2002**, 98-100, 59-72	3.2	76
93	Limitation of cellulose accessibility and unproductive binding of cellulases by pretreated sugarcane bagasse lignin. *Biotechnology for Biofuels*, **2017**, 10, 176	7.8	75
92	Enzyme mediated nanofibrillation of cellulose by the synergistic actions of an endoglucanase, lytic polysaccharide monooxygenase (LPMO) and xylanase. *Scientific Reports*, **2018**, 8, 3195	4.9	74
91	The nature of lignin from steam explosion/ enzymatic hydrolysis of softwood: structural features and possible uses: scientific note. *Applied Biochemistry and Biotechnology*, **1999**, 77-79, 867-76	3.2	74
90	Potential synergies of drop-in biofuel production with further co-processing at oil refineries. *Biofuels, Bioproducts and Biorefining*, **2019**, 13, 760-775	5.3	66
89	The influence of lignin on steam pretreatment and mechanical pulping of poplar to achieve high sugar recovery and ease of enzymatic hydrolysis. *Bioresource Technology*, **2016**, 199, 135-141	11	64
88	A rapid microassay to evaluate enzymatic hydrolysis of lignocellulosic substrates. *Biotechnology and Bioengineering*, **2006**, 93, 880-6	4.9	60
87	Optimization of steam explosion to enhance hemicellulose recovery and enzymatic hydrolysis of cellulose in softwoods. *Applied Biochemistry and Biotechnology*, **1999**, 77, 47-54	3.2	60
86	What Are the Major Components in Steam Pretreated Lignocellulosic Biomass That Inhibit the Efficacy of Cellulase Enzyme Mixtures?. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 3429-3436	8.3	59
85	Physical characterization of enzymatically modified kraft pulp fibers. *Journal of Biotechnology*, **1997**, 57, 205-216	3.7	55

84	A xylanase-aided enzymatic pretreatment facilitates cellulose nanofibrillation. *Bioresource Technology*, **2017**, 243, 898-904	11	48
83	Biofuels policies that have encouraged their production and use: An international perspective. *Energy Policy*, **2020**, 147, 111906	7.2	48
82	Horizontal gene transfer and gene dosage drives adaptation to wood colonization in a tree pathogen. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3451-6	11.5	47
81	Use of the Simons' Staining Technique to Assess Cellulose Accessibility in Pretreated Substrates. *Industrial Biotechnology*, **2012**, 8, 230-237	1.3	46
80	Drop-in biofuel production via conventional (lipid/fatty acid) and advanced (biomass) routes. Part I. *Biofuels, Bioproducts and Biorefining*, **2017**, 11, 344-362	5.3	45
79	The effects of increasing swelling and anionic charges on the enzymatic hydrolysis of organosolv-pretreated softwoods at low enzyme loadings. *Biotechnology and Bioengineering*, **2011**, 108, 1549-58	4.9	44
78	Optimization of SO2-catalyzed steam pretreatment of corn fiber for ethanol production. *Applied Biochemistry and Biotechnology*, **2003**, 105 -108, 319-35	3.2	44
77	Fibre size does not appear to influence the ease of enzymatic hydrolysis of organosolv-pretreated softwoods. *Bioresource Technology*, **2012**, 107, 235-42	11	43
76	Steam pretreatment of agricultural residues facilitates hemicellulose recovery while enhancing enzyme accessibility to cellulose. *Bioresource Technology*, **2015**, 185, 302-7	11	42
75	Use of substructure-specific carbohydrate binding modules to track changes in cellulose accessibility and surface morphology during the amorphogenesis step of enzymatic hydrolysis. *Biotechnology for Biofuels*, **2012**, 5, 51	7.8	42
74	Evaluation of the enzymatic susceptibility of cellulosic substrates using specific hydrolysis rates and enzyme adsorption. *Applied Biochemistry and Biotechnology*, **1994**, 45-46, 407-415	3.2	42
73	Does densification influence the steam pretreatment and enzymatic hydrolysis of softwoods to sugars?. *Bioresource Technology*, **2012**, 121, 190-8	11	41
72	High Production Yield and More Thermally Stable Lignin-Containing Cellulose Nanocrystals Isolated Using a Ternary Acidic Deep Eutectic Solvent. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7182-7191	8.3	38
71	The Influence of Lignin on the Enzymatic Hydrolysis of Pretreated Biomass Substrates. *ACS Symposium Series*, **2011**, 145-167	0.4	37
70	Enhanced delignification of steam-pretreated poplar by a bacterial laccase. *Scientific Reports*, **2017**, 7, 42121	4.9	33
69	The use of carbohydrate binding modules (CBMs) to monitor changes in fragmentation and cellulose fiber surface morphology during cellulase- and Swollenin-induced deconstruction of lignocellulosic substrates. *Journal of Biological Chemistry*, **2015**, 290, 2938-45	5.4	33
68	Enhancing Hemicellulose Recovery and the Enzymatic Hydrolysis of Cellulose by Adding Lignosulfonates during the Two-Stage Steam Pretreatment of Poplar. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 986-991	8.3	33
67	Extent of Enzyme Inhibition by Phenolics Derived from Pretreated Biomass Is Significantly Influenced by the Size and Carbonyl Group Content of the Phenolics. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 3823-3829	8.3	33

66	Why does GH10 xylanase have better performance than GH11 xylanase for the deconstruction of pretreated biomass?. *Biomass and Bioenergy*, **2018**, 110, 13-16	5.3	31
65	Alkali-Oxygen Impregnation Prior to Steam Pretreating Poplar Wood Chips Enhances Selective Lignin Modification and Removal while Maximizing Carbohydrate Recovery, Cellulose Accessibility, and Enzymatic Hydrolysis. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 4011-4017	8.3	28
64	The enzymatic hydrolysis of pretreated pulp fibers predominantly involves "peeling/erosion" modes of action. *Biotechnology for Biofuels*, **2014**, 7, 87	7.8	27
63	Sugar recovery and fermentability of hemicellulose hydrolysates from steam-exploded softwoods containing bark. *Biotechnology Progress*, **2001**, 17, 887-92	2.8	27
62	The inhibition of hemicellulosic sugars on cellulose hydrolysis are highly dependant on the cellulase productive binding, processivity, and substrate surface charges. *Bioresource Technology*, **2018**, 258, 79-87	11	27
61	Alkali□xygen treatment prior to the mechanical pulping of hardwood enhances enzymatic hydrolysis and carbohydrate recovery through selective lignin modification. *Sustainable Energy and Fuels*, **2019**, 3, 227-236	5.8	26
60	Minimizing cellulase inhibition of whole slurry biomass hydrolysis through the addition of carbocation scavengers during acid-catalyzed pretreatment. *Bioresource Technology*, **2018**, 258, 12-17	11	26
59	Acidic deep eutectic solvent assisted isolation of lignin containing nanocellulose from thermomechanical pulp. *Carbohydrate Polymers*, **2020**, 247, 116727	10.3	25
58	The influence of lignin migration and relocation during steam pretreatment on the enzymatic hydrolysis of softwood and corn stover biomass substrates. *Biotechnology and Bioengineering*, **2019**, 116, 2864-2873	4.9	25
57	Quantifying cellulose accessibility during enzyme-mediated deconstruction using 2 fluorescence-tagged carbohydrate-binding modules. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 22545-22551	11.5	25
56	Oxidative cleavage of some cellulosic substrates by auxiliary activity (AA) family 9 enzymes influences the adsorption/desorption of hydrolytic cellulase enzymes. *Green Chemistry*, **2016**, 18, 6329-6336	10	24
55	Enzyme Treatments of the Dissolved and Colloidal Substances Present in Mill White Water and the Effects on the Resulting Paper Properties. *Journal of Wood Chemistry and Technology*, **2000**, 20, 321-335	2	23
54	Non-productive celluase binding onto deep eutectic solvent (DES) extracted lignin from willow and corn stover with inhibitory effects on enzymatic hydrolysis of cellulose. *Carbohydrate Polymers*, **2020**, 250, 116956	10.3	23
53	Steam explosion pretreatment used to remove hemicellulose to enhance the production of a eucalyptus organosolv dissolving pulp. *Wood Science and Technology*, **2017**, 51, 557-569	2.5	22
52	The influence of lignin on the effectiveness of using a chemithermomechanical pulping based process to pretreat softwood chips and pellets prior to enzymatic hydrolysis. *Bioresource Technology*, **2020**, 302, 122895	11	20
51	A NaBH□Coupled Ninhydrin-Based Assay for the Quantification of Protein/Enzymes During the Enzymatic Hydrolysis of Pretreated Lignocellulosic Biomass. *Applied Biochemistry and Biotechnology*, **2015**, 176, 1564-80	3.2	19
50	Do cellulose binding domains increase substrate accessibility?. *Applied Biochemistry and Biotechnology*, **2001**, 91-93, 575-92	3.2	18
49	Enhancing bacterial cellulose production via adding mesoporous halloysite nanotubes in the culture medium. *Carbohydrate Polymers*, **2018**, 198, 191-196	10.3	17

48	An Overview of Factors Influencing the Enzymatic Hydrolysis of Lignocellulosic Feedstocks. *ACS Symposium Series*, **2000**, 100-111	0.4	16
47	Valorization of Bark Using Ethanol–Water Organosolv Treatment: Isolation and Characterization of Crude Lignin. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 4745-4754	8.3	14
46	Alkaline sulfonation and thermomechanical pulping pretreatment of softwood chips and pellets to enhance enzymatic hydrolysis. *Bioresource Technology*, **2020**, 315, 123789	11	14
45	Optimization of chip size and moisture content to obtain high, combined sugar recovery after sulfur dioxide-catalyzed steam pretreatment of softwood and enzymatic hydrolysis of the cellulosic component. *Bioresource Technology*, **2015**, 187, 288-298	11	13
44	Adsorption and desorption of cellulase components during the hydrolysis of a steam-exploded birch substrate 1. *Biotechnology and Applied Biochemistry*, **1995**, 21, 203-216	2.8	13
43	Potential To Produce Sugars and Lignin-Containing Cellulose Nanofibrils from Enzymatically Hydrolyzed Chemi-Thermomechanical Pulps. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 14955-14963	8.3	13
42	Enzymatic Separation of High-Quality Uninked Pulp Fibers from Recycled Newspaper. *Nature Biotechnology*, **1994**, 12, 905-908	44.5	12
41	Sulfite Post-Treatment To Simultaneously Detoxify and Improve the Enzymatic Hydrolysis and Fermentation of a Steam-Pretreated Softwood Lodgepole Pine Whole Slurry. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5192-5199	8.3	11
40	A quantitative approach to the study of the adsorption/desorption of cellulase components in a crude cellulase mixture. *Biotechnology Letters*, **1993**, 7, 713-718		11
39	Mechanistic insights into the liquefaction stage of enzyme-mediated biomass deconstruction. *Biotechnology and Bioengineering*, **2017**, 114, 2489-2496	4.9	11
38	Functionalizing Cellulose Nanocrystals with Click Modifiable Carbohydrate-Binding Modules. *Biomacromolecules*, **2019**, 20, 3087-3093	6.9	10
37	Understanding the slowdown of whole slurry hydrolysis of steam pretreated lignocellulosic woody biomass catalyzed by an up-to-date enzyme cocktail. *Sustainable Energy and Fuels*, **2018**, 2, 1048-1056	5.8	10
36	Special Issue from the NSERC Bioconversion network workshop: pretreatment and fractionation of biomass for biorefinery/biofuels. *Biotechnology for Biofuels*, **2013**, 6, 17	7.8	9
35	Enzymatic Hydrolysis of Industrial Derived Xylo-oligomers to Monomeric Sugars for Potential Chemical/Biofuel Production. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 7130-7136	8.3	8
34	Pretreatment of biomass. *Bioresource Technology*, **2016**, 199, 1	11	8
33	Second-generation ethanol in Chile: optimisation of the autohydrolysis of Eucalyptus globulus. *Biomass Conversion and Biorefinery*, **2014**, 4, 125-135	2.3	8
32	Use of Carbohydrate Binding Modules To Elucidate the Relationship between Fibrillation, Hydrolyzability, and Accessibility of Cellulosic Substrates. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 1113-1119	8.3	8
31	The Potential of Using Immobilized Xylanases to Enhance the Hydrolysis of Soluble, Biomass Derived Xylooligomers. *Materials*, **2018**, 11,	3.5	8

30	Enhancing Enzyme-Mediated Hydrolysis of Mechanical Pulps by Deacetylation and Delignification. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5847-5855	8.3	7
29	The potential of endoglucanases to rapidly and specifically enhance the rheological properties of micro/nanofibrillated cellulose. *Cellulose*, **2018**, 25, 977-986	5.5	7
28	Challenges in determining the renewable content of the final fuels after co-processing biogenic feedstocks in the fluid catalytic cracker (FCC) of a commercial oil refinery. *Fuel*, **2021**, 294, 120526	7.1	7
27	Laccase-mediated hydrophilization of lignin decreases unproductive enzyme binding but limits subsequent enzymatic hydrolysis at high substrate concentrations. *Bioresource Technology*, **2019**, 292, 121999	11	6
26	Substrate Characteristics That Influence the Filter Paper Assay's Ability to Predict the Hydrolytic Potential of Cellulase Mixtures. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 10521-10528	8.3	6
25	Factors affecting gas chromatographic analysis of resin acids present in pulp mill effluents. *Toxicological and Environmental Chemistry*, **1996**, 57, 1-16	1.4	6
24	Rapid, high-yield production of lignin-containing cellulose nanocrystals using recyclable oxalic acid dihydrate. *Industrial Crops and Products*, **2021**, 173, 114148	5.9	6
23	The use of fluorescent protein-tagged carbohydrate-binding modules to evaluate the influence of drying on cellulose accessibility and enzymatic hydrolysis.. *RSC Advances*, **2020**, 10, 27152-27160	3.7	6
22	Use of Endoglucanase and Accessory Enzymes to Facilitate Mechanical Pulp Nanofibrillation. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 1406-1413	8.3	6
21	The Application of Fiber Quality Analysis (FQA) and Cellulose Accessibility Measurements To Better Elucidate the Impact of Fiber Curls and Kinks on the Enzymatic Hydrolysis of Fibers. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 8827-8833	8.3	5
20	Session 4 industrial needs for commercialization. *Applied Biochemistry and Biotechnology*, **1997**, 63-65, 609-623	3.2	5
19	The Synergistic Effects of Endoglucanase and Xylanase in Modifying Douglas Fir Kraft Pulp. *ACS Symposium Series*, **1998**, 75-87	0.4	5
18	The production of lactic acid from chemi-thermomechanical pulps using a chemo-catalytic approach. *Bioresource Technology*, **2021**, 324, 124664	11	5
17	Potential yields and emission reductions of biojet fuels produced via hydrotreatment of biocrudes produced through direct thermochemical liquefaction. *Biotechnology for Biofuels*, **2019**, 12, 281	7.8	5
16	Lignin Sulfonation and SO Addition Enhance the Hydrolyzability of Deacetylated and Then Steam-Pretreated Poplar with Reduced Inhibitor Formation. *Applied Biochemistry and Biotechnology* , **2018**, 184, 264-277	3.2	4
15	Current breakthroughs in the hardwood biorefineries: Hydrothermal processing for the co-production of xylooligosaccharides and bioethanol. *Bioresource Technology*, **2022**, 343, 126100	11	4
14	Enhancing cellulose nanofibrillation of eucalyptus Kraft pulp by combining enzymatic and mechanical pretreatments. *Cellulose*, **2021**, 28, 189-206	5.5	4
13	Elucidation of Changes in Cellulose Ultrastructure and Accessibility in Hardwood Fractionation Processes with Carbohydrate Binding Modules. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 6767-6776	8.3	3

12	Potential of Xylanases to Reduce the Viscosity of Micro/Nanofibrillated Bleached Kraft Pulp.. *ACS Applied Bio Materials*, **2020**, 3, 2201-2208	4.1	2
11	Identification of essential cellulase components in the hydrolysis of a steam-exploded birch substrate1. *Biotechnology and Applied Biochemistry*, **1995**, 21, 185-202	2.8	2
10	The Production of Lipids Using 5-Hydorxymethy Furfural Tolerant Rhodotorula graminis Grown on the Hydrolyzates of Steam Pretreated Softwoods. *Sustainability*, **2020**, 12, 755	3.6	2
9	Enhancing Enzyme-Mediated Cellulose Hydrolysis by Incorporating Acid Groups Onto the Lignin During Biomass Pretreatment. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 608835	5.8	2
8	Enzyme-Mediated Lignocellulose Liquefaction Is Highly Substrate-Specific and Influenced by the Substrate Concentration or Rheological Regime. *Frontiers in Bioengineering and Biotechnology*, **2020** , 8, 917	5.8	2
7	The influence of pre-steaming and lignin distribution on wood pellet robustness and ease of subsequent enzyme-mediated cellulose hydrolysis. *Sustainable Energy and Fuels*, **2021**, 5, 424-429	5.8	2
6	Enhancing Kraft based dissolving pulp production by integrating green liquor neutralization. *Carbohydrate Polymer Technologies and Applications*, **2021**, 2, 100034	1.7	2
5	Molecular Mass Distribution of Materials Solubilized by Xylanase Treatment of Douglas-Fir Kraft Pulp. *ACS Symposium Series*, **1996**, 44-62	0.4	1
4	Climate change affects cell-wall structure and hydrolytic performance of a perennial grass as an energy crop. *Biofuels, Bioproducts and Biorefining*,	5.3	1
3	Production of lower carbon-intensity fuels by co-processing biogenic feedstocks: Potential and challenges for refineries. *Fuel*, **2022**, 324, 124636	7.1	1
2	The use of steam pretreatment to enhance pellet durability and the enzyme-mediated hydrolysis of pellets to fermentable sugars.. *Bioresource Technology*, **2022**, 347, 126731	11	0
1	Determining the amount of “green” coke generated when co-processing lipids commercially by fluid catalytic cracking. *Biofuels, Bioproducts and Biorefining*, **2022**, 16, 325-334	5.3	0