

# Charles E Wyman

## List of Publications by Citations

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132  
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g-index

140  
ext. papers

24,713  
ext. citations

9.8  
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7.13  
L-index

#	Paper	IF	Citations
132	Features of promising technologies for pretreatment of lignocellulosic biomass. <i>Bioresource Technology</i> , <b>2005</b> , 96, 673-86	11	4441
131	Lignin valorization: improving lignin processing in the biorefinery. <i>Science</i> , <b>2014</b> , 344, 1246843	33.3	2274
130	Pretreatment: the key to unlocking low-cost cellulosic ethanol. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2008</b> , 2, 26-40	5.3	1087
129	Coordinated development of leading biomass pretreatment technologies. <i>Bioresource Technology</i> , <b>2005</b> , 96, 1959-66	11	1076
128	How biotech can transform biofuels. <i>Nature Biotechnology</i> , <b>2008</b> , 26, 169-72	44.5	859
127	Physical and chemical characterizations of corn stover and poplar solids resulting from leading pretreatment technologies. <i>Bioresource Technology</i> , <b>2009</b> , 100, 3948-62	11	680
126	Biocommodity Engineering. <i>Biotechnology Progress</i> , <b>1999</b> , 15, 777-793	2.8	591
125	Combined sugar yields for dilute sulfuric acid pretreatment of corn stover followed by enzymatic hydrolysis of the remaining solids. <i>Bioresource Technology</i> , <b>2005</b> , 96, 1967-77	11	588
124	What is (and is not) vital to advancing cellulosic ethanol. <i>Trends in Biotechnology</i> , <b>2007</b> , 25, 153-7	15.1	489
123	Lignin content in natural Populus variants affects sugar release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 6300-5	11.5	443
122	Comparative sugar recovery data from laboratory scale application of leading pretreatment technologies to corn stover. <i>Bioresource Technology</i> , <b>2005</b> , 96, 2026-32	11	426
121	Xylooligomers are strong inhibitors of cellulose hydrolysis by enzymes. <i>Bioresource Technology</i> , <b>2010</b> , 101, 9624-30	11	408
120	BIOMASSETHANOL: Technical Progress, Opportunities, and Commercial Challenges. <i>Annual Review of Environment and Resources</i> , <b>1999</b> , 24, 189-226		404
119	BSA treatment to enhance enzymatic hydrolysis of cellulose in lignin containing substrates. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 611-7	4.9	403
118	Ethanol from lignocellulosic biomass: Technology, economics, and opportunities. <i>Bioresource Technology</i> , <b>1994</b> , 50, 3-15	11	364
117	Enzymatic hydrolysis of cellulosic biomass. <i>Biofuels</i> , <b>2011</b> , 2, 421-449	2	359
116	Integrated furfural production as a renewable fuel and chemical platform from lignocellulosic biomass. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2014</b> , 89, 2-10	3.5	300

115	Production of renewable jet fuel range alkanes and commodity chemicals from integrated catalytic processing of biomass. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1500-1523	35.4	295
114	Comparative sugar recovery and fermentation data following pretreatment of poplar wood by leading technologies. <i>Biotechnology Progress</i> , <b>2009</b> , 25, 333-9	2.8	250
113	The Effect of Flow Rate of Compressed Hot Water on Xylan, Lignin, and Total Mass Removal from Corn Stover. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 5409-5416	3.9	243
112	Cellulosic ethanol: status and innovation. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 45, 202-211	11.4	236
111	Effect of xylanase supplementation of cellulase on digestion of corn stover solids prepared by leading pretreatment technologies. <i>Bioresource Technology</i> , <b>2009</b> , 100, 4203-13	11	234
110	Effects of cellulase and xylanase enzymes on the deconstruction of solids from pretreatment of poplar by leading technologies. <i>Biotechnology Progress</i> , <b>2009</b> , 25, 302-14	2.8	222
109	Investigating plant cell wall components that affect biomass recalcitrance in poplar and switchgrass. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 898	35.4	194
108	Cellulose and hemicellulose hydrolysis models for application to current and novel pretreatment processes. <i>Applied Biochemistry and Biotechnology</i> , <b>2000</b> , 84-86, 81-96	3.2	187
107	Investigation of lignin deposition on cellulose during hydrothermal pretreatment, its effect on cellulose hydrolysis, and underlying mechanisms. <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 485-92	4.9	185
106	THF co-solvent enhances hydrocarbon fuel precursor yields from lignocellulosic biomass. <i>Green Chemistry</i> , <b>2013</b> , 15, 3140	10	182
105	Cellulase adsorption and relationship to features of corn stover solids produced by leading pretreatments. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 103, 252-67	4.9	173
104	A comparative study of ethanol production using dilute acid, ionic liquid and AFEX <sup>®</sup> pretreated corn stover. <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 72	7.8	166
103	Supplementation with xylanase and xylosidase to reduce xylo-oligomer and xylan inhibition of enzymatic hydrolysis of cellulose and pretreated corn stover. <i>Biotechnology for Biofuels</i> , <b>2011</b> , 4, 18	7.8	157
102	Access of cellulase to cellulose and lignin for poplar solids produced by leading pretreatment technologies. <i>Biotechnology Progress</i> , <b>2009</b> , 25, 807-19	2.8	156
101	The fate of lignin during hydrothermal pretreatment. <i>Biotechnology for Biofuels</i> , <b>2013</b> , 6, 110	7.8	152
100	Carbohydrate derived-pseudo-lignin can retard cellulose biological conversion. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 737-53	4.9	152
99	Potential synergies and challenges in refining cellulosic biomass to fuels, chemicals, and power. <i>Biotechnology Progress</i> , <b>2003</b> , 19, 254-62	2.8	152
98	Comparison of laboratory delignification methods, their selectivity, and impacts on physiochemical characteristics of cellulosic biomass. <i>Bioresource Technology</i> , <b>2013</b> , 130, 372-81	11	144

97	Xylose Monomer and Oligomer Yields for Uncatalyzed Hydrolysis of Sugarcane Bagasse Hemicellulose at Varying Solids Concentration. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 1454-1461	3.9	144
96	Depolymerization of lignocellulosic biomass to fuel precursors: maximizing carbon efficiency by combining hydrolysis with pyrolysis. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 358	35.4	142
95	Next-generation ammonia pretreatment enhances cellulosic biofuel production. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1215-1223	35.4	141
94	Coupling metal halides with a co-solvent to produce furfural and 5-HMF at high yields directly from lignocellulosic biomass as an integrated biofuels strategy. <i>Green Chemistry</i> , <b>2014</b> , 16, 3819-3829	10	136
93	Co-solvent pretreatment reduces costly enzyme requirements for high sugar and ethanol yields from lignocellulosic biomass. <i>ChemSusChem</i> , <b>2015</b> , 8, 1716-25	8.3	133
92	Hydrochloric acid-catalyzed levulinic acid formation from cellulose: data and kinetic model to maximize yields. <i>AIChE Journal</i> , <b>2012</b> , 58, 236-246	3.6	129
91	Chemical transformations of <i>Populus trichocarpa</i> during dilute acid pretreatment. <i>RSC Advances</i> , <b>2012</b> , 2, 10925	3.7	126
90	4-O-methylation of glucuronic acid in <i>Arabidopsis</i> glucuronoxylan is catalyzed by a domain of unknown function family 579 protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 14253-8	11.5	123
89	Comparative data on effects of leading pretreatments and enzyme loadings and formulations on sugar yields from different switchgrass sources. <i>Bioresource Technology</i> , <b>2011</b> , 102, 11052-62	11	114
88	Support Induced Control of Surface Composition in CuNi/TiO <sub>2</sub> Catalysts Enables High Yield Co-Conversion of HMF and Furfural to Methylated Furans. <i>ACS Catalysis</i> , <b>2017</b> , 7, 4070-4082	13.1	108
87	Renewable gasoline from aqueous phase hydrodeoxygenation of aqueous sugar solutions prepared by hydrolysis of maple wood. <i>Green Chemistry</i> , <b>2011</b> , 13, 91-101	10	105
86	Overcoming factors limiting high-solids fermentation of lignocellulosic biomass to ethanol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 11673-11678	11.5	97
85	Application of monoclonal antibodies to investigate plant cell wall deconstruction for biofuels production. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4332	35.4	97
84	Effect of lignin content on changes occurring in poplar cellulose ultrastructure during dilute acid pretreatment. <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 150	7.8	94
83	An improved method to directly estimate cellulase adsorption on biomass solids. <i>Enzyme and Microbial Technology</i> , <b>2008</b> , 42, 426-433	3.8	88
82	Cosolvent pretreatment in cellulosic biofuel production: effect of tetrahydrofuran-water on lignin structure and dynamics. <i>Green Chemistry</i> , <b>2016</b> , 18, 1268-1277	10	87
81	Summary of findings from the Biomass Refining Consortium for Applied Fundamentals and Innovation (CAFI): corn stover pretreatment. <i>Cellulose</i> , <b>2009</b> , 16, 649-659	5.5	86
80	Comparative study on enzymatic digestibility of switchgrass varieties and harvests processed by leading pretreatment technologies. <i>Bioresource Technology</i> , <b>2011</b> , 102, 11089-96	11	82

79	Strengths, challenges, and opportunities for hydrothermal pretreatment in lignocellulosic biorefineries. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2018</b> , 12, 125-138	5.3	76
78	Comparison of enzymatic reactivity of corn stover solids prepared by dilute acid, AFEX and ionic liquid pretreatments. <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 71	7.8	70
77	Twenty years of trials, tribulations, and research progress in bioethanol technology: selected key events along the way. <i>Applied Biochemistry and Biotechnology</i> , <b>2001</b> , 91-93, 5-21	3.2	69
76	Local Phase Separation of Co-solvents Enhances Pretreatment of Biomass for Bioenergy Applications. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 10869-78	16.4	65
75	Chemical Transformations of Poplar Lignin during Cosolvent Enhanced Lignocellulosic Fractionation Process. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 8711-8718	8.3	65
74	The Effect of Flow Rate of Very Dilute Sulfuric Acid on Xylan, Lignin, and Total Mass Removal from Corn Stover. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 2781-2788	3.9	64
73	Biological lignocellulose solubilization: comparative evaluation of biocatalysts and enhancement via cotreatment. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 8	7.8	63
72	Strong cellulase inhibition by Mannan polysaccharides in cellulose conversion to sugars. <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 1341-53	4.9	63
71	Sugar yields from dilute sulfuric acid and sulfur dioxide pretreatments and subsequent enzymatic hydrolysis of switchgrass. <i>Bioresource Technology</i> , <b>2011</b> , 102, 8930-8	11	61
70	Fast Fractionation of Technical Lignins by Organic Cosolvents. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 6064-6072	8.3	57
69	Characterization of fractional cuts of co-solvent enhanced lignocellulosic fractionation lignin isolated by sequential precipitation. <i>Bioresource Technology</i> , <b>2019</b> , 272, 202-208	11	52
68	Enhanced yields of furfural and other products by simultaneous solvent extraction during thermochemical treatment of cellulosic biomass. <i>RSC Advances</i> , <b>2013</b> , 3, 9809	3.7	50
67	Lignocellulose fermentation and residual solids characterization for senescent switchgrass fermentation by <i>Clostridium thermocellum</i> in the presence and absence of continuous in situ ball-milling. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1252-1261	35.4	48
66	Deactivation of Cellulase at the Air-Liquid Interface Is the Main Cause of Incomplete Cellulose Conversion at Low Enzyme Loadings. <i>Scientific Reports</i> , <b>2018</b> , 8, 1350	4.9	48
65	Chemical composition and characterization of cellulose for Agave as a fast-growing, drought-tolerant biofuels feedstock. <i>RSC Advances</i> , <b>2012</b> , 2, 4951	3.7	48
64	Unifying Mechanistic Analysis of Factors Controlling Selectivity in Fructose Dehydration to 5-Hydroxymethylfurfural by Homogeneous Acid Catalysts in Aprotic Solvents. <i>ACS Catalysis</i> , <b>2018</b> , 8, 5591-5600	13.1	46
63	Plant Cell Walls: Basics of Structure, Chemistry, Accessibility and the Influence on Conversion <b>2013</b> , 23-38		45
62	The effect of bovine serum albumin on batch and continuous enzymatic cellulose hydrolysis mixed by stirring or shaking. <i>Bioresource Technology</i> , <b>2011</b> , 102, 6295-8	11	43

61	Flowthrough pretreatment with very dilute acid provides insights into high lignin contribution to biomass recalcitrance. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 245	7.8	43
60	A Multifunctional Cosolvent Pair Reveals Molecular Principles of Biomass Deconstruction. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 12545-12557	16.4	41
59	Fundamentals of Biomass Pretreatment by Fractionation <b>2013</b> , 201-222		38
58	Comparison of changes in cellulose ultrastructure during different pretreatments of poplar. <i>Cellulose</i> , <b>2014</b> , 21, 2419-2431	5.5	37
57	Multiple levers for overcoming the recalcitrance of lignocellulosic biomass. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 15	7.8	36
56	Xylose yields and relationship to combined severity for dilute acid post-hydrolysis of xylooligomers from hydrothermal pretreatment of corn stover. <i>Green Chemistry</i> , <b>2015</b> , 17, 394-403	10	34
55	Agave proves to be a low recalcitrant lignocellulosic feedstock for biofuels production on semi-arid lands. <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 50	7.8	34
54	Cellulose-Hemicellulose interactions at elevated temperatures increase cellulose recalcitrance to biological conversion. <i>Green Chemistry</i> , <b>2018</b> , 20, 921-934	10	33
53	Adding tetrahydrofuran to dilute acid pretreatment provides new insights into substrate changes that greatly enhance biomass deconstruction by and fungal enzymes. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 252	7.8	30
52	Physical and Chemical Features of Pretreated Biomass that Influence Macro-/Micro-Accessibility and Biological Processing <b>2013</b> , 281-310		30
51	Solubilities of Oligomer Mixtures Produced by the Hydrolysis of Xylans and Corn Stover in Water at 180 °C. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 2383-2391	3.9	30
50	Effects of dilute acid and flowthrough pretreatments and BSA supplementation on enzymatic deconstruction of poplar by cellulase and xylanase. <i>Carbohydrate Polymers</i> , <b>2017</b> , 157, 1940-1948	10.3	29
49	Natural genetic variability reduces recalcitrance in poplar. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 106	7.8	28
48	Comparative Performance of Leading Pretreatment Technologies for Biological Conversion of Corn Stover, Poplar Wood, and Switchgrass to Sugars <b>2013</b> , 239-259		27
47	Biomass augmentation through thermochemical pretreatments greatly enhances digestion of switchgrass by. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 219	7.8	25
46	Xylooligosaccharides Production, Quantification, and Characterization in Context of Lignocellulosic Biomass Pretreatment <b>2013</b> , 391-415		25
45	Unconventional Relationships for Hemicellulose Hydrolysis and Subsequent Cellulose Digestion. <i>ACS Symposium Series</i> , <b>2004</b> , 100-125	0.4	25
44	Understanding Multiscale Structural Changes During Dilute Acid Pretreatment of Switchgrass and Poplar. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 426-435	8.3	23

43	Investigation of enzyme formulation on pretreated switchgrass. <i>Bioresource Technology</i> , <b>2011</b> , 102, 11072-9	7.2	21
42	Robustness of two-step acid hydrolysis procedure for composition analysis of poplar. <i>Bioresource Technology</i> , <b>2016</b> , 216, 1077-82	11	21
41	Loss of function of foylpolylglutamate synthetase 1 reduces lignin content and improves cell wall digestibility in Arabidopsis. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 224	7.8	20
40	How chip size impacts steam pretreatment effectiveness for biological conversion of poplar wood into fermentable sugars. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 209	7.8	19
39	Primer on Ammonia Fiber Expansion Pretreatment <b>2013</b> , 169-200		19
38	Plant Biomass Characterization: Application of Solution- and Solid-State NMR Spectroscopy <b>2013</b> , 369-390		19
37	Fundamentals of Biomass Pretreatment at Low pH <b>2013</b> , 103-128		18
36	Performance of three delignifying pretreatments on hardwoods: hydrolysis yields, comprehensive mass balances, and lignin properties. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 213	7.8	17
35	Comparative evaluation of variants total sugar release and structural features following pretreatment and digestion by two distinct biological systems. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 292	7.8	17
34	Co-hydrolysis of hydrothermal and dilute acid pretreated populus slurries to support development of a high-throughput pretreatment system. <i>Biotechnology for Biofuels</i> , <b>2011</b> , 4, 19	7.8	17
33	Impacts of cellulase deactivation at the moving air-liquid interface on cellulose conversions at low enzyme loadings. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 96	7.8	16
32	Xylan hydrolysis in <i>Populus trichocarpa</i> [P. deltoides] and model substrates during hydrothermal pretreatment. <i>Bioresource Technology</i> , <b>2015</b> , 179, 202-210	11	15
31	Sugar yield and composition of tubers from Jerusalem Artichoke ( <i>Helianthus tuberosus</i> ) irrigated with saline waters. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 1475-1484	4.9	15
30	Heat transfer considerations in design of a batch tube reactor for biomass hydrolysis. <i>Applied Biochemistry and Biotechnology</i> , <b>2001</b> , 91-93, 377-86	3.2	14
29	Single-step catalytic conversion of furfural to 2-pentanol over bimetallic CoCu catalysts. <i>Reaction Chemistry and Engineering</i> , <b>2019</b> , 4, 261-267	4.9	13
28	Fundamentals of Aqueous Pretreatment of Biomass <b>2013</b> , 129-143		13
27	Ionic Liquid Pretreatment: Mechanism, Performance, and Challenges <b>2013</b> , 223-238		11
26	Biological Conversion of Plants to Fuels and Chemicals and the Effects of Inhibitors <b>2013</b> , 39-60		11

25	Fundamentals of Biomass Pretreatment at High pH <b>2013</b> , 145-167		11
24	THF co-solvent pretreatment prevents lignin redeposition from interfering with enzymes yielding prolonged cellulase activity. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 63	7.8	10
23	Topochemical Understanding of Lignin Distribution During Hydrothermal Flowthrough Pretreatment. <i>ChemistrySelect</i> , <b>2018</b> , 3, 9348-9352	1.8	10
22	CELf significantly reduces milling requirements and improves soaking effectiveness for maximum sugar recovery of Alamo switchgrass over dilute sulfuric acid pretreatment. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 177	7.8	9
21	Cellulose hydrolysis by <i>Clostridium thermocellum</i> is agnostic to substrate structural properties in contrast to fungal cellulases. <i>Green Chemistry</i> , <b>2019</b> , 21, 2810-2822	10	8
20	Laboratory Pretreatment Systems to Understand Biomass Deconstruction <b>2013</b> , 489-521		8
19	The effect of switchgrass plant cell wall properties on its deconstruction by thermochemical pretreatments coupled with fungal enzymatic hydrolysis or <i>Clostridium thermocellum</i> consolidated bioprocessing. <i>Green Chemistry</i> , <b>2020</b> , 22, 7924-7945	10	7
18	Toward low-cost biological and hybrid biological/catalytic conversion of cellulosic biomass to fuels. <i>Energy and Environmental Science</i> ,	35.4	7
17	Recalcitrance and structural analysis by water-only flowthrough pretreatment of (13)C enriched corn stover stem. <i>Bioresource Technology</i> , <b>2015</b> , 197, 128-36	11	6
16	Catalytic Strategies for Converting Lignocellulosic Carbohydrates to Fuels and Chemicals <b>2013</b> , 61-102		6
15	Application of a slurry feeder to 1 and 3 stage continuous simultaneous saccharification and fermentation of dilute acid pretreated corn stover. <i>Bioresource Technology</i> , <b>2014</b> , 170, 470-476	11	4
14	Cellulosic Biofuels: Importance, Recalcitrance, and Pretreatment <b>2013</b> , 17-21		4
13	Polyurethanes Based on Unmodified and Refined Technical Lignins: Correlation between Molecular Structure and Material Properties. <i>Biomacromolecules</i> , <b>2021</b> , 22, 2129-2136	6.9	4
12	Economics of Pretreatment for Biological Processing <b>2013</b> , 311-333		3
11	Effects of Enzyme Formulation and Loadings on Conversion of Biomass Pretreated by Leading Technologies <b>2013</b> , 261-279		2
10	Experimental Pretreatment Systems from Laboratory to Pilot Scale <b>2013</b> , 417-450		2
9	Progress in the Summative Analysis of Biomass Feedstocks for Biofuels Production <b>2013</b> , 335-354		2
8	Research and Development Needs for a Fully Sustainable Biocommodity Industry. <i>ACS Symposium Series</i> , <b>2002</b> , 31-46	0.4	2



7	Cosolvent enhanced lignocellulosic fractionation tailoring lignin chemistry and enhancing lignin bioconversion. <i>Bioresource Technology</i> , <b>2021</b> , 126367	11	2
6	Elucidation of native California <i>Agave americana</i> and <i>Agave deserti</i> biofuel potential: Compositional analysis. <i>PLoS ONE</i> , <b>2021</b> , 16, e0252201	3-7	2
5	High-Throughput NIR Analysis of Biomass Pretreatment Streams <b>2013</b> , 355-368		1
4	High-Throughput Pretreatment and Hydrolysis Systems for Screening Biomass Species in Aqueous Pretreatment of Plant Biomass <b>2013</b> , 471-488		1
3	Experimental Enzymatic Hydrolysis Systems <b>2013</b> , 451-469		
2	Biofuels from cellulosic biomass via aqueous processing 336-348		
1	Novel in Situ Device for Measuring Solubilities. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 6587-6591	3-9	