Daniel J Schell

List of Publications by Year
in descending order

41 papers	2,777 citations	218677 26 h-index	289244 40 g-index
42 all docs	42 docs citations	42 times ranked	2856 citing authors

#	Article	IF	Citations
1	Dilute-Sulfuric Acid Pretreatment of Corn Stover in Pilot-Scale Reactor: Investigation of Yields, Kinetics, and Enzymatic Digestibilities of Solids. Applied Biochemistry and Biotechnology, 2003, 105, 69-86.	2.9	378
2	Soluble and insoluble solids contributions to high-solids enzymatic hydrolysis of lignocellulose. Bioresource Technology, 2008, 99, 8940-8948.	9.6	280
3	Model-Based Fed-Batch for High-Solids Enzymatic Cellulose Hydrolysis. Applied Biochemistry and Biotechnology, 2009, 152, 88-107.	2.9	196
4	Comparative study of corn stover pretreated by dilute acid and cellulose solventâ€based lignocellulose fractionation: Enzymatic hydrolysis, supramolecular structure, and substrate accessibility. Biotechnology and Bioengineering, 2009, 103, 715-724.	3.3	191
5	Rheology of corn stover slurries at high solids concentrations â€“ Effects of saccharification and particle size. Bioresource Technology, 2009, 100, 925-934.	9.6	174
6	Milling of lignocellulosic biomass. Applied Biochemistry and Biotechnology, 1994, 45-46, 159-168.	2.9	137
7	Conditioning hemicellulose hydrolysates for fermentation: Effects of overliming pH on sugar and ethanol yields. Process Biochemistry, 2006, 41, 1806-1811.	3.7	104
8	A bioethanol process development unit: initial operating experiences and results with a corn fiber feedstock. Bioresource Technology, 2004, 91, 179-188.	9.6	103
9	Impact of corn stover composition on hemicellulose conversion during dilute acid pretreatment and enzymatic cellulose digestibility of the pretreated solids. Bioresource Technology, 2010, 101, 674-678.	9.6	102
10	Economic impact of total solids loading on enzymatic hydrolysis of dilute acid pretreated corn stover. Biotechnology Progress, 2010, 26, 1245-1251.	2.6	88
11	An economic comparison of different fermentation configurations to convert corn stover to ethanol using <i>Z. mobilis</i> and <i>Saccharomyces</i>. Biotechnology Progress, 2010, 26, 64-72.	2.6	86
12	Performance of a newly developed integrant of Zymomonas mobilis for ethanol production on corn stover hydrolysate. Biotechnology Letters, 2004, 26, 321-325.	2.2	72
13	Membrane extraction for removal of acetic acid from biomass hydrolysates. Journal of Membrane Science, 2008, 322, 189-195.	8.2	66
14	Characterization of pilot-scale dilute acid pretreatment performance using deacetylated corn stover. Biotechnology for Biofuels, 2014, 7, 23.	6.2	62
15	Modeling sucrose hydrolysis in dilute sulfuric acid solutions at pretreatment conditions for lignocellulosic biomass. Bioresource Technology, 2008, 99, 7354-7362.	9.6	61
16	Contaminant occurrence, identification and control in a pilot-scale corn fiber to ethanol conversion process. Bioresource Technology, 2007, 98, 2942-2948.	9.6	60
17	Conversion of Residual Organics in Corn Stover-Derived Biorefinery Stream to Bioenergy via a Microbial Fuel Cell. Environmental Science & Technology, 2013, 47, 642-648.	10.0	50
18	Effect of fed-batch vs. continuous mode of operation on microbial fuel cell performance treating biorefinery wastewater. Biochemical Engineering Journal, 2016, 116, 85-94.	3.6	50

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19	Dilute-Sulfuric Acid Pretreatment of Corn Stover in Pilot-Scale Reactor. , 2003, , 69-85.		45
20	Conditioning of dilute-acid pretreated corn stover hydrolysate liquors by treatment with lime or ammonium hydroxide to improve conversion of sugars to ethanol. Bioresource Technology, 2011, 102, 1240-1245.	9.6	43
21	Detoxification of biomass hydrolysates by reactive membrane extraction. Journal of Membrane Science, 2010, 348, 6-12.	8.2	41
22	Modeling the Enzymatic Hydrolysis of Dilute-Acid Pretreated Douglas Fir. Applied Biochemistry and Biotechnology, 1999, 77, 67-82.	2.9	37
23	Dilute sulfuric acid pretreatment of corn stover at high solids concentrations. Applied Biochemistry and Biotechnology, 1992, 34-35, 659-665.	2.9	36
24	Membrane extraction for detoxification of biomass hydrolysates. Bioresource Technology, 2012, 111, 248-254.	9.6	36
25	Pretreatment of softwood by acid-catalyzed steam explosion followed by alkali extraction. Applied Biochemistry and Biotechnology, 1998, 70-72, 17-24.	2.9	30
26	Pilot-Scale Batch Alkaline Pretreatment of Corn Stover. ACS Sustainable Chemistry and Engineering, 2016, 4, 944-956.	6.7	29
27	Methodological analysis for determination of enzymatic digestibility of cellulosic materials. Biotechnology and Bioengineering, 2007, 96, 188-194.	3.3	27
28	Degradation of Carbohydrates during Dilute Sulfuric Acid Pretreatment Can Interfere with Lignin Measurements in Solid Residues. Journal of Agricultural and Food Chemistry, 2013, 61, 3286-3292.	5.2	24
29	Removal of Acidic Impurities from Corn Stover Hydrolysate Liquor by Resin Wafer Based Electrodeionization. Industrial & Engineering Chemistry Research, 2013, 52, 13777-13784.	3.7	24
30	Influence Of Operating Conditions and Vessel Size On Oxygen Transfer During Cellulase Production. Applied Biochemistry and Biotechnology, 2001, 91-93, 627-642.	2.9	22
31	Performance and techno-economic assessment of several solidâ€"liquid separation technologies for processing dilute-acid pretreated corn stover. Bioresource Technology, 2014, 167, 291-296.	9.6	20
32	Assessing pretreatment reactor scaling through empirical analysis. Biotechnology for Biofuels, 2016, 9, 213.	6.2	16
33	Accounting for all sugars produced during integrated production of ethanol from lignocellulosic biomass. Bioresource Technology, 2016, 205, 153-158.	9.6	16
34	Carbon Mass Balance Evaluation of Cellulase Production on Soluble and Insoluble Substrates. Biotechnology Progress, 2002, 18, 1400-1407.	2.6	13
35	Fermentation of Reactive-Membrane-Extracted and Ammonium-Hydroxide-Conditioned Dilute-Acid-Pretreated Corn Stover. Applied Biochemistry and Biotechnology, 2012, 166, 470-478.	2.9	13
36	Impact of recycling stillage on conversion of dilute sulfuric acid pretreated corn stover to ethanol. Biotechnology and Bioengineering, 2010, 105, 992-996.	3.3	10

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37	Changes in physical and chemical properties of pretreated wheat straw during hydrolysis with cellulase. Biotechnology Letters, 1989, 11, 745-748.	2.2	7
38	Use of Measurement Uncertainty Analysis to Assess Accuracy of Carbon Mass Balance Closure for a Cellulase Production Process. Applied Biochemistry and Biotechnology, 2002, 98-100, 509-524.	2.9	7
39	Mass Spectral Analyses of Corn Stover Prehydrolysates To Assess Conditioning Processes. Journal of Agricultural and Food Chemistry, 2010, 58, 12642-12649.	5.2	6
40	High pressure solids feeding using a lockhopper system: Design and operating experience. Applied Biochemistry and Biotechnology, 1988, 17, 73-87.	2.9	5
41	Vendor test studies supporting the design of a biomass-to-ethanol pilot plant. Applied Biochemistry and Biotechnology, 1995, 51-52, 549-557.	2.9	4