David A Sievers

List of Publications by Year
in descending order

13	194	1040056 9	1125743 13
papers	citations	h-index	g-index

13	13	13	320
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effects of physical and chemical preprocessing on the flowability of corn stover. Biomass and Bioenergy, 2016, 85, 126-134.	5.7	37
2	Online residence time distribution measurement of thermochemical biomass pretreatment reactors. Chemical Engineering Science, 2016, 140, 330-336.	3.8	25
3	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
4	Effects of dilute-acid pretreatment conditions on filtration performance of corn stover hydrolyzate. Bioresource Technology, 2017, 243, 474-480.	9.6	18
5	Continuous enzymatic hydrolysis of lignocellulosic biomass in a membraneâ€reactor system. Journal of Chemical Technology and Biotechnology, 2018, 93, 2181-2190.	3.2	18
6	A low-cost solidâ€“liquid separation process for enzymatically hydrolyzed corn stover slurries. Bioresource Technology, 2015, 187, 37-42.	9.6	17
7	Modeling residence-time distribution in horizontal screw hydrolysis reactors. Chemical Engineering Science, 2018, 175, 396-404.	3.8	17
8	Throughput, Reliability, and Yields of a Pilot-Scale Conversion Process for Production of Fermentable Sugars from Lignocellulosic Biomass: A Study on Feedstock Ash and Moisture. ACS Sustainable Chemistry and Engineering, 2020, 8, 2008-2015.	6.7	16
9	Kinetics and Rheological Behavior of Higher Solid (Solids >20%) Enzymatic Hydrolysis Reactions Using Dilute Acid Pretreated, Deacetylation and Disk Refined, and Deacetylation and Mechanical Refined (DMR) Corn Stover Slurries. ACS Sustainable Chemistry and Engineering, 2019, 7, 1633-1641.	6.7	14
10	Real-time biomass feedstock particle quality detection using image analysis and machine vision. Biomass Conversion and Biorefinery, 2022, 12, 5739-5750.	4.6	6
11	Technical Performance and Economic Evaluation of Evaporative and Membrane-Based Concentration for Biomass-Derived Sugars. Industrial & Engineering Chemistry Research, 2017, 56, 11584-11592.	3.7	3
12	Modeling the Disc Refining of Lignocellulosic Biomass toward Reduced Biofuel Production Cost and Greenhouse Gas Emissions: Energy Consumption Prediction and Validation. ACS Sustainable Chemistry and Engineering, 2021, 9, 9717-9726.	6.7	2
13	Importance of residence-time control of industrial screw-conveying reactors: Application to dilute-acid hydrolysis of biomass. Chemical Engineering Journal, 2022, 450, 138119.	12.7	1