

Rebecca Garlock Ong

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,570
citations

279798

23
h-index

361022

35
g-index

37
all docs

37
docs citations

37
times ranked

2080
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin-Propiconazole Nanocapsules are an Effective Bio-Based Wood Preservative. ACS Sustainable Chemistry and Engineering, 2021, 9, 2684-2692.	6.7	15
2	A high solids field-to-fuel research pipeline to identify interactions between feedstocks and biofuel production. Biotechnology for Biofuels, 2021, 14, 179.	6.2	6
3	The potential for expanding sustainable biogas production and some possible impacts in specific countries. Biofuels, Bioproducts and Biorefining, 2020, 14, 1335-1347.	3.7	15
4	Double-Shell Lignin Nanocapsules Are a Stable Vehicle for Fungicide Encapsulation and Release. ACS Sustainable Chemistry and Engineering, 2020, 8, 17299-17306.	6.7	17
5	Understanding the Effect of Precipitation Process Variables on Hardwood Lignin Characteristics and Recovery from Black Liquor. ACS Sustainable Chemistry and Engineering, 2020, 8, 13997-14005.	6.7	28
6	Ammonia Fiber Expansion (AFEX) Pretreatment of Lignocellulosic Biomass. Journal of Visualized Experiments, 2020, , .	0.3	23
7	Integration of Pretreatment With Simultaneous Counter-Current Extraction of Energy Sorghum for High-Titer Mixed Sugar Production. Frontiers in Energy Research, 2019, 6, .	2.3	7
8	Cellulose-hemicellulose interactions at elevated temperatures increase cellulose recalcitrance to biological conversion. Green Chemistry, 2018, 20, 921-934.	9.0	49
9	Pre-senescence Harvest of Switchgrass Inhibits Xylose Utilization by Engineered Yeast. Frontiers in Energy Research, 2018, 6, .	2.3	7
10	Diverse lignocellulosic feedstocks can achieve high field-scale ethanol yields while providing flexibility for the biorefinery and landscape-level environmental benefits. GCB Bioenergy, 2018, 10, 825-840.	5.6	31
11	Water sorption in pretreated grasses as a predictor of enzymatic hydrolysis yields. Bioresource Technology, 2017, 245, 242-249.	9.6	24
12	Greenhouse gas emissions of electricity and biomethane produced using the Biogasdonerightâ„¢ system: four case studies from Italy. Biofuels, Bioproducts and Biorefining, 2017, 11, 847-860.	3.7	52
13	Identification of developmental stage and anatomical fraction contributions to cell wall recalcitrance in switchgrass. Biotechnology for Biofuels, 2017, 10, 184.	6.2	28
14	Inhibition of microbial biofuel production in drought-stressed switchgrass hydrolysate. Biotechnology for Biofuels, 2016, 9, 237.	6.2	46
15	Strategies for the production of cell wall-deconstructing enzymes in lignocellulosic biomass and their utilization for biofuel production. Plant Biotechnology Journal, 2016, 14, 1329-1344.	8.3	34
16	Controlling microbial contamination during hydrolysis of AFEX-pretreated corn stover and switchgrass: effects on hydrolysate composition, microbial response and fermentation. Biotechnology for Biofuels, 2015, 8, 180.	6.2	40
17	Take a Closer Look: Biofuels Can Support Environmental, Economic and Social Goals. Environmental Science & Technology, 2014, 48, 7200-7203.	10.0	120
18	Design, implementation, and evaluation of sustainable bioenergy production systems. Biofuels, Bioproducts and Biorefining, 2014, 8, 487-503.	3.7	25

#	ARTICLE	IF	CITATIONS
19	Lignin Down-regulation of <i>Zea mays</i> via dsRNAi and Klason Lignin Analysis. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	5
20	Linking Plant Biology and Pretreatment: Understanding the Structure and Organization of the Plant Cell Wall and Interactions with Cellulosic Biofuel Production. , 2014, , 231-253.		25
21	Hydrogen peroxide presoaking of bamboo prior to AFEX pretreatment and impact on enzymatic conversion to fermentable sugars. <i>Bioresource Technology</i> , 2013, 142, 26-31.	9.6	34
22	Downregulation of Maize Cinnamoyl-Coenzyme A Reductase via RNA Interference Technology Causes Brown Midrib and Improves Ammonia Fiber Expansion Pretreated Conversion into Fermentable Sugars for Biofuels. <i>Crop Science</i> , 2012, 52, 2687-2701.	1.8	31
23	An alternative approach to indirect land use change: Allocating greenhouse gas effects among different uses of land. <i>Biomass and Bioenergy</i> , 2012, 46, 447-452.	5.7	13
24	Energy, wealth, and human development: Why and how biomass pretreatment research must improve. <i>Biotechnology Progress</i> , 2012, 28, 893-898.	2.6	72
25	AFEX Pretreatment and Enzymatic Conversion of Black Locust (<i>Robinia pseudoacacia</i> L.) to Soluble Sugars. <i>Bioenergy Research</i> , 2012, 5, 306-318.	3.9	22
26	Influence of variable species composition on the saccharification of AFEX pretreated biomass from unmanaged fields in comparison to corn stover. <i>Biomass and Bioenergy</i> , 2012, 37, 49-59.	5.7	32
27	Optimization of AFEX pretreatment conditions and enzyme mixtures to maximize sugar release from upland and lowland switchgrass. <i>Bioresource Technology</i> , 2012, 104, 757-768.	9.6	40
28	Investigation of enzyme formulation on pretreated switchgrass. <i>Bioresource Technology</i> , 2011, 102, 11072-11079.	9.6	21
29	Effects of enzyme loading and β -glucosidase supplementation on enzymatic hydrolysis of switchgrass processed by leading pretreatment technologies. <i>Bioresource Technology</i> , 2011, 102, 11115-11120.	9.6	52
30	Surface and ultrastructural characterization of raw and pretreated switchgrass. <i>Bioresource Technology</i> , 2011, 102, 11097-11104.	9.6	62
31	Comparative material balances around pretreatment technologies for the conversion of switchgrass to soluble sugars. <i>Bioresource Technology</i> , 2011, 102, 11063-11071.	9.6	117
32	Application of cellulase and hemicellulase to pure xylan, pure cellulose, and switchgrass solids from leading pretreatments. <i>Bioresource Technology</i> , 2011, 102, 11080-11088.	9.6	54
33	Comparative study on enzymatic digestibility of switchgrass varieties and harvests processed by leading pretreatment technologies. <i>Bioresource Technology</i> , 2011, 102, 11089-11096.	9.6	93
34	Process and technoeconomic analysis of leading pretreatment technologies for lignocellulosic ethanol production using switchgrass. <i>Bioresource Technology</i> , 2011, 102, 11105-11114.	9.6	274
35	Optimizing harvest of corn stover fractions based on overall sugar yields following ammonia fiber expansion pretreatment and enzymatic hydrolysis. <i>Biotechnology for Biofuels</i> , 2009, 2, 29.	6.2	55