# Rebecca Garlock Ong

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Process and technoeconomic analysis of leading pretreatment technologies for lignocellulosic ethanol production using switchgrass. Bioresource Technology, 2011, 102, 11105-11114. | 9.6 | 274 |
| 2 | Take a Closer Look: Biofuels Can Support Environmental, Economic and Social Goals. Environmental Science & Technology, 2014, 48, 7200-7203. | 10.0 | 120 |
| 3 | Comparative material balances around pretreatment technologies for the conversion of switchgrass to soluble sugars. Bioresource Technology, 2011, 102, 11063-11071. | 9.6 | 117 |
| 4 | Comparative study on enzymatic digestibility of switchgrass varieties and harvests processed by leading pretreatment technologies. Bioresource Technology, 2011, 102, 11089-11096. | 9.6 | 93 |
| 5 | Energy, wealth, and human development: Why and how biomass pretreatment research must improve. Biotechnology Progress, 2012, 28, 893-898. | 2.6 | 72 |
| 6 | Surface and ultrastructural characterization of raw and pretreated switchgrass. Bioresource Technology, 2011, 102, 11097-11104. | 9.6 | 62 |
| 7 | Optimizing harvest of corn stover fractions based on overall sugar yields following ammonia fiber expansion pretreatment and enzymatic hydrolysis. Biotechnology for Biofuels, 2009, 2, 29. | 6.2 | 55 |
| 8 | Application of cellulase and hemicellulase to pure xylan, pure cellulose, and switchgrass solids from leading pretreatments. Bioresource Technology, 2011, 102, 11080-11088. | 9.6 | 54 |
| 9 | Effects of enzyme loading and Î²-glucosidase supplementation on enzymatic hydrolysis of switchgrass processed by leading pretreatment technologies. Bioresource Technology, 2011, 102, 11115-11120. | 9.6 | 52 |
| 10 | 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 |
| 11 | Celluloseâ€“hemicellulose interactions at elevated temperatures increase cellulose recalcitrance to biological conversion. Green Chemistry, 2018, 20, 921-934. | 9.0 | 49 |
| 12 | Inhibition of microbial biofuel production in drought-stressed switchgrass hydrolysate. Biotechnology for Biofuels, 2016, 9, 237. | 6.2 | 46 |
| 13 | Optimization of AFEXâ„¢ pretreatment conditions and enzyme mixtures to maximize sugar release from upland and lowland switchgrass. Bioresource Technology, 2012, 104, 757-768. | 9.6 | 40 |
| 14 | 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 |
| 15 | Hydrogen peroxide presoaking of bamboo prior to AFEX pretreatment and impact on enzymatic conversion to fermentable sugars. Bioresource Technology, 2013, 142, 26-31. | 9.6 | 34 |
| 16 | Strategies for the production of cell wallâ€deconstructing enzymes in lignocellulosic biomass and their utilization for biofuel production. Plant Biotechnology Journal, 2016, 14, 1329-1344. | 8.3 | 34 |
| 17 | Influence of variable species composition on the saccharification of AFEXâ„¢ pretreated biomass from unmanaged fields in comparison to corn stover. Biomass and Bioenergy, 2012, 37, 49-59. | 5.7 | 32 |
| 18 | Downregulation of Maize Cinnamoylâ€Coenzyme A Reductase via RNA Interference Technology Causes Brown Midrib and Improves Ammonia Fiber Expansionâ€Pretreated Conversion into Fermentable Sugars for Biofuels. Crop Science, 2012, 52, 2687-2701. | 1.8 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Diverse lignocellulosic feedstocks can achieve high fieldâ€scale ethanol yields while providing flexibility for the biorefinery and landscapeâ€level environmental benefits. GCB Bioenergy, 2018, 10, 825-840. | 5.6 | 31 |
| 20 | Identification of developmental stage and anatomical fraction contributions to cell wall recalcitrance in switchgrass. Biotechnology for Biofuels, 2017, 10, 184. | 6.2 | 28 |
| 21 | 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 |
| 22 | Design, implementation, and evaluation of sustainable bioenergy production systems. Biofuels, Bioproducts and Biorefining, 2014, 8, 487-503. | 3.7 | 25 |
| 23 | 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 |
| 24 | Water sorption in pretreated grasses as a predictor of enzymatic hydrolysis yields. Bioresource Technology, 2017, 245, 242-249. | 9.6 | 24 |
| 25 | Ammonia Fiber Expansion (AFEX) Pretreatment of Lignocellulosic Biomass. Journal of Visualized Experiments, 2020, , . | 0.3 | 23 |
| 26 | AFEX Pretreatment and Enzymatic Conversion of Black Locust (Robinia pseudoacacia L.) to Soluble Sugars. Bioenergy Research, 2012, 5, 306-318. | 3.9 | 22 |
| 27 | Investigation of enzyme formulation on pretreated switchgrass. Bioresource Technology, 2011, 102, 11072-11079. | 9.6 | 21 |
| 28 | 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 |
| 29 | 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 |
| 30 | Ligninâ€“Propiconazole Nanocapsules are an Effective Bio-Based Wood Preservative. ACS Sustainable Chemistry and Engineering, 2021, 9, 2684-2692. | 6.7 | 15 |
| 31 | An alternative approach to indirect land use change: Allocating greenhouse gas effects among different uses ofÅland. Biomass and Bioenergy, 2012, 46, 447-452. | 5.7 | 13 |
| 32 | Pre-senescence Harvest of Switchgrass Inhibits Xylose Utilization by Engineered Yeast. Frontiers in Energy Research, 2018, 6, . | 2.3 | 7 |
| 33 | 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 |
| 34 | 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 |
| 35 | Lignin Down-regulation of Zea mays via dsRNAi and Klason Lignin Analysis. Journal of Visualized Experiments, 2014, , . | 0.3 | 5 |