# Danielle Julie Carrier

List of Publications by Year
in descending order



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|---|---|---|---|
| 87 papers | 1,678 citations | 293460 24 h-index | 425179 34 g-index |

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|---|---|---|---|
| 107 all docs | 107 docs citations | 107 times ranked | 2384 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Sustainable Second-Generation Ethanol Production from Switchgrass Biomass via Co-fermentation of Pentoses and Hexoses Using Novel Wild Yeasts. Bioenergy Research, 2022, 15, 1157-1168. | 2.2 | 6 |
| 2 | Building Pathways to a Sustainable Planet. ACS Sustainable Chemistry and Engineering, 2022, 10, 1-2. | 3.2 | 1 |
| 3 | Women in Green Chemistry and Engineering: Agents of Change Toward the Achievement of a Sustainable Future. ACS Sustainable Chemistry and Engineering, 2022, 10, 2859-2862. | 3.2 | 3 |
| 4 | ACS Sustainable Chemistry & Engineering Welcomes Manuscripts on the Circular Economy of Biomass. ACS Sustainable Chemistry and Engineering, 2021, 9, 2410-2411. | 3.2 | 5 |
| 5 | Production and Characterization of High Value Prebiotics From Biorefinery-Relevant Feedstocks. Frontiers in Microbiology, 2021, 12, 675314. | 1.5 | 13 |
| 6 | ACS Sustainable Chemistry & Engineering Welcomes Manuscripts on Alternative Feedstocks. ACS Sustainable Chemistry and Engineering, 2021, 9, 4702-4703. | 3.2 | 1 |
| 7 | A Sequential Autohydrolysis-Ionic Liquid Fractionation Process for High Quality Lignin Production. Energy & Fuels, 2021, 35, 2293-2302. | 2.5 | 8 |
| 8 | Effective Assessment Practices for Using Sustainability Metrics: Biomass Processing. ACS Sustainable Chemistry and Engineering, 2021, 9, 14654-14656. | 3.2 | 2 |
| 9 | Expectations for Perspectives in ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2021, 9, 16528-16530. | 3.2 | 1 |
| 10 | The Evolution of ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 1-1. | 3.2 | 6 |
| 11 | Maximizing production of cellulose nanocrystals and nanofibers from pre-extracted loblolly pine kraft pulp: a response surface approach. Bioresources and Bioprocessing, 2020, 7, . | 2.0 | 55 |
| 12 | Understanding thein situstate of lignocellulosic biomass during ionic liquids-based engineering of renewable materials and chemicals. Green Chemistry, 2020, 22, 6748-6766. | 4.6 | 18 |
| 13 | Expectations for Manuscripts in ACS Sustainable Chemistry & Engineering: Scope Summary and Call for Creativity. ACS Sustainable Chemistry and Engineering, 2020, 8, 16046-16047. | 3.2 | 2 |
| 14 | Expectations for Manuscripts on Biomass Feedstocks and Processing in ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 11031-11032. | 3.2 | 2 |
| 15 | Remembering Professor, Academician, and Editor Lina Zhang. ACS Sustainable Chemistry and Engineering, 2020, 8, 16385-16385. | 3.2 | 0 |
| 16 | The Changing Structure of Scientific Communication: Expanding the Nature of Letters Submissions to ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 8469-8470. | 3.2 | 0 |
| 17 | Investigating the effects of hemicellulose pre-extraction on the production and characterization of loblolly pine nanocellulose. Cellulose, 2020, 27, 3693-3706. | 2.4 | 33 |
| 18 | Why Wasnâ€™t My ACS Sustainable Chemistry & Engineering Manuscript Sent Out for Review?. ACS Sustainable Chemistry and Engineering, 2019, 7, 1-2. | 3.2 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Sustainable Hydrogels Based on Lignin-Methacrylate Copolymers with Enhanced Water Retention and Tunable Material Properties. Biomacromolecules, 2018, 19, 2665-2672. | 2.6 | 34 |
| 20 | Statistical Approach for the Identification of Cellulolytic Enzyme Inhibitors Using Switchgrass Dilute Acid Prehydrolyzates as a Model System. ACS Sustainable Chemistry and Engineering, 2018, 6, 3443-3452. | 3.2 | 10 |
| 21 | Advancing the Use of Sustainability Metrics in ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2018, 6, 1-1. | 3.2 | 34 |
| 22 | Structural changes in lignocellulosic biomass during activation with ionic liquids comprising 3-methylimidazolium cations and carboxylate anions. Biotechnology for Biofuels, 2018, 11, 265. | 6.2 | 19 |
| 23 | Effects of Oligosaccharides Isolated From Pinewood Hot Water Pre-hydrolyzates on Recombinant Cellulases. Frontiers in Bioengineering and Biotechnology, 2018, 6, 55. | 2.0 | 13 |
| 24 | Phytochemical Recovery for Valorization of Loblolly Pine and Sweetgum Bark Residues. ACS Sustainable Chemistry and Engineering, 2017, 5, 4258-4266. | 3.2 | 8 |
| 25 | ACS Sustainable Chemistry & Engineeringâ€™s Impact Factor Continues To Rise. ACS Sustainable Chemistry and Engineering, 2017, 5, 5617-5617. | 3.2 | 0 |
| 26 | Four Years of ACS Sustainable Chemistry & Engineering: Reflections and New Developments. ACS Sustainable Chemistry and Engineering, 2017, 5, 1-2. | 3.2 | 8 |
| 27 | Beneficial effects of Trametes versicolor pretreatment on saccharification and lignin enrichment of organosolv-pretreated pinewood. RSC Advances, 2017, 7, 45652-45661. | 1.7 | 10 |
| 28 | Pretreatments for Enhanced Enzymatic Hydrolysis of Pinewood: a Review. Bioenergy Research, 2017, 10, 1138-1154. | 2.2 | 28 |
| 29 | Insights into exo-Cellulase Inhibition by the Hot Water Hydrolyzates of Rice Straw. ACS Sustainable Chemistry and Engineering, 2016, 4, 3627-3633. | 3.2 | 29 |
| 30 | Effects of Dilute Acid Pretreatment Parameters on Sugar Production during Biochemical Conversion of Switchgrass Using a Full Factorial Design. ACS Sustainable Chemistry and Engineering, 2016, 4, 4124-4130. | 3.2 | 24 |
| 31 | Loblolly pine (Pinus taedaL.) essential oil yields affected by environmental and physiological changes. Journal of Sustainable Forestry, 2016, 35, 417-430. | 0.6 | 5 |
| 32 | Switchgrass storage effects on the recovery of carbohydrates after liquid hot water pretreatment and enzymatic hydrolysis. AIMS Bioengineering, 2016, 3, 389-399. | 0.6 | 14 |
| 33 | Separation of xylose oligomers from autohydrolyzed MiscanthusÃ—giganteus using centrifugal partition chromatography. Food and Bioproducts Processing, 2015, 95, 125-132. | 1.8 | 13 |
| 34 | Applications of Trametes versicolor crude culture filtrates in detoxification of biomass pretreatment hydrolyzates. Bioresource Technology, 2015, 189, 99-106. | 4.8 | 28 |
| 35 | Production and Fractionation of Xylose Oligomers from Switchgrass Hemicelluloses Using Centrifugal Partition Chromatography. Journal of Liquid Chromatography and Related Technologies, 2015, 38, 801-809. | 0.5 | 9 |
| 36 | Kinetic Modeling of Switchgrass-Derived Xylose Oligomers Degradation during Pretreatment in Dilute Acid or in Water. ACS Sustainable Chemistry and Engineering, 2015, 3, 2030-2035. | 3.2 | 7 |

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|---|---|---|---|
| 37 | Insights into biological delignification of rice straw by Trametes hirsuta and Myrothecium roridum and comparison of saccharification yields with dilute acid pretreatment. Biomass and Bioenergy, 2015, 76, 54-60. | 2.9 | 42 |
| 38 | Understanding the Pine Dilute Acid Pretreatment System for Enhanced Enzymatic Hydrolysis. ACS Sustainable Chemistry and Engineering, 2015, 3, 2423-2428. | 3.2 | 27 |
| 39 | Cellulose Nanocrystals as Advanced "Green" Materials for Biological and Biomedical Engineering. Journal of Biosystems Engineering, 2015, 40, 373-393. | 1.2 | 35 |
| 40 | Effects of Harvest and Storage of Switchgrass on the Recovery of Carbohydrates during Dilute Acid Pretreatment and Enzymatic Hydrolysis. Forage and Grazinglands, 2014, 12, 1-6. | 0.2 | 0 |
| 41 | Effect of dilute acid pretreatment conditions and washing on the production of inhibitors and on recovery of sugars during wheat straw enzymatic hydrolysis. Biomass and Bioenergy, 2014, 62, 222-227. | 2.9 | 113 |
| 42 | Kinetic Modeling of Xylose Oligomer Degradation during Pretreatment in Dilute Acid or in Water. Industrial & Engineering Chemistry Research, 2014, 53, 2219-2228. | 1.8 | 22 |
| 43 | Poplar (Populus deltoides L.): The Effect of Washing Pretreated Biomass on Enzymatic Hydrolysis and Fermentation to Ethanol. ACS Sustainable Chemistry and Engineering, 2014, 2, 1835-1842. | 3.2 | 26 |
| 44 | Characterization of Rice Straw Prehydrolyzates and Their Effect on the Hydrolysis of Model Substrates Using a Commercial endo-Cellulase, Î²-Glucosidase and Cellulase Cocktail. ACS Sustainable Chemistry and Engineering, 2014, 2, 2124-2130. | 3.2 | 17 |
| 45 | Characterization and Variation of Essential Oil fromPinus taedaand Antimicrobial Effects against Antibiotic-Resistant and -SusceptibleStaphylococcus aureus. Forest Products Journal, 2014, 64, 161-165. | 0.2 | 4 |
| 46 | Separation of xylose oligomers using centrifugal partition chromatography with a butanolâ€“methanolâ€“water system. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 51-62. | 1.4 | 14 |
| 47 | Effect of Formic Acid and Furfural on the Enzymatic Hydrolysis of Cellulose Powder and Dilute Acid-Pretreated Poplar Hydrolysates. ACS Sustainable Chemistry and Engineering, 2013, 1, 23-28. | 3.2 | 36 |
| 48 | Plant Maturity Effects on the Physicochemical Properties and Dilute Acid Hydrolysis of Switchgrass (Panicum virgatum, L.) Hemicelluloses. ACS Sustainable Chemistry and Engineering, 2013, 1, 649-654. | 3.2 | 13 |
| 49 | Hot water and dilute acid pretreatment of high and low specific gravity Populus deltoides clones. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 355-361. | 1.4 | 12 |
| 50 | Separation and purification of xylose oligomers using centrifugal partition chromatography. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 363-370. | 1.4 | 19 |
| 51 | Sweetgum (Liquidambar styraciflua L.): Extraction of Shikimic Acid Coupled to Dilute Acid Pretreatment. Applied Biochemistry and Biotechnology, 2010, 162, 1660-1668. | 1.4 | 33 |
| 52 | Comparing extraction methods to recover ginseng saponins from American ginseng (Panax) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 T verification. Separation and Purification Technology, 2010, 72, 1-6. | 3.9 | 32 |
| 53 | Extraction of Co-Products from Biomass: Example of Thermal Degradation of Silymarin Compounds in Subcritical Water. Applied Biochemistry and Biotechnology, 2009, 158, 362-373. | 1.4 | 20 |
| 54 | Switchgrass Water Extracts: Extraction, Separation and Biological Activity of Rutin and Quercitrin. Journal of Agricultural and Food Chemistry, 2009, 57, 7763-7770. | 2.4 | 40 |

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|---|---|---|---|
| 55 | Policosanol, Î±-Tocopherol, and Moisture Content as a Function of Timing of Harvest of Switchgrass (Panicum virgatum L.). Journal of Agricultural and Food Chemistry, 2009, 57, 3500-3505. | 2.4 | 12 |
| 56 | Pretreatment of milk thistle seed to increase the silymarin yield: An alternative to petroleum ether defatting. Bioresource Technology, 2008, 99, 2501-2506. | 4.8 | 23 |
| 57 | Separation of Silymarins from Milk Thistle (Silybum Marianum L.) Extracted with Pressurized Hot Water using Fast Centrifugal Partition Chromatography. Journal of Liquid Chromatography and Related Technologies, 2008, 31, 3001-3011. | 0.5 | 20 |
| 58 | Milk Thistle Extracts Inhibit the Oxidation of Low-Density Lipoprotein (LDL) and Subsequent Scavenger Receptor-Dependent Monocyte Adhesion. Journal of Agricultural and Food Chemistry, 2008, 56, 3966-3972. | 2.4 | 18 |
| 59 | Pressurized water versus ethanol as a Silybum marianum extraction solvent for inhibition of low-density lipoprotein oxidation mediated by copper and J774 macrophage cellsThis article is one of a selection of papers published in this special issue (part 1 of 2) on the Safety and Efficacy of Natural Health Products.. Canadian Journal of Physiology and Pharmacology, 2007, 85, 894-902. | 0.7 | 5 |
| 60 | Effect of Albizia julibrissin Water Extracts on Low-Density Lipoprotein Oxidization. Journal of Agricultural and Food Chemistry, 2007, 55, 4704-4709. | 2.4 | 13 |
| 61 | Assessing the Clinical Significance of Botanical Supplementation on Human Cytochrome P450 3A Activity: Comparison of a Milk Thistle and Black Cohosh Product to Rifampin and Clarithromycin. Journal of Clinical Pharmacology, 2006, 46, 201-213. | 1.0 | 96 |
| 62 | Extraction of Hyperoside and Quercitrin From Mimosa (Albizia julibrissin) Foliage. Applied Biochemistry and Biotechnology, 2006, 130, 382-391. | 1.4 | 14 |
| 63 | Extraction of Hyperoside and Quercitrin From Mimosa (Albizia julibrissin) Foliage. , 2006, , 382-391. | | 0 |
| 64 | Glucoraphanin extraction fromCardaria draba: Part 1. Optimization of batch extraction. Journal of Chemical Technology and Biotechnology, 2005, 80, 985-991. | 1.6 | 21 |
| 65 | Glucoraphanin extraction fromCardaria draba: Part 2. Countercurrent extraction, bioactivity and toxicity testing. Journal of Chemical Technology and Biotechnology, 2005, 80, 992-997. | 1.6 | 3 |
| 66 | Pre- and post-harvest processing of medicinal plants. Plant Genetic Resources: Characterisation and Utilisation, 2005, 3, 304-313. | 0.4 | 58 |
| 67 | Silymarin Extraction from Milk Thistle Using Hot Water. , 2004, , 559-568. | | 1 |
| 68 | Silymarin Extraction from Milk Thistle Using Hot Water. Applied Biochemistry and Biotechnology, 2004, 114, 559-568. | 1.4 | 23 |
| 69 | Extraction of Antioxidant Compounds from Energy Crops. Applied Biochemistry and Biotechnology, 2004, 114, 569-584. | 1.4 | 24 |
| 70 | Extraction of Nutraceuticals from Milk Thistle: I. Hot Water Extraction. Applied Biochemistry and Biotechnology, 2003, 108, 881-890. | 1.4 | 23 |
| 71 | Extraction of Nutraceuticals from Milk Thistle: Part II. Extraction with Organic Solvents. Applied Biochemistry and Biotechnology, 2003, 108, 891-904. | 1.4 | 33 |
| 72 | Milk Thistle,Silybum marianum(L.) Gaertn., Flower Head Development and Associated Marker Compound Profile. Journal of Herbs, Spices and Medicinal Plants, 2003, 10, 65-74. | 0.5 | 36 |

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|---|---|---|---|
| 73 | Localization of Alkamides, Echinacoside and Cynarin withEchinacea angustifolia. Journal of Herbs, Spices and Medicinal Plants, 2003, 10, 73-81. | 0.5 | 11 |
| 74 | Drying ofEchinacea angustifoliaRoots. Journal of Herbs, Spices and Medicinal Plants, 2003, 10, 11-18. | 0.5 | 7 |
| 75 | Effects of Drying Temperature and Storage on Parthenolide Concentration of Feverfew (Tanacetum) Tj ETQq1 1 0.784314 rgBT /Overlock | 0.5 | 8 |
| 76 | HPLC-UV and LC-MS-MS Characterization of Silymarin in Milk Thistle Seeds and Corresponding Products. Journal of Nutraceuticals, Functional and Medical Foods, 2003, 4, 37-48. | 0.5 | 17 |
| 77 | PHYSICAL CHARACTERISTICS AND DRYING RATE OFECHINACEAROOT. Drying Technology, 2002, 20, 637-649. | 1.7 | 26 |
| 78 | Echinacoside and Alkamide Distribution inEchinacea angustifoliaRoot. Journal of Nutraceuticals, Functional and Medical Foods, 2001, 3, 95-107. | 0.5 | 5 |
| 79 | Distribution of ginkgolides and terpenoid biosynthetic activity in Ginkgo biloba. Phytochemistry, 1998, 48, 89-92. | 1.4 | 39 |
| 80 | Sucrose requirements and lipid utilization during germination of interior spruce (Picea glauca) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 | 2.8 | 1 |
| 81 | Effect of daptomycin on the barotropic behavior of dioleoylphosphatidylglycerol: an infrared spectroscopic investigation. Chemistry and Physics of Lipids, 1996, 83, 131-140. | 1.5 | 5 |
| 82 | Gas chromatographic-mass spectrometric characterization of some fatty acids from white and interior spruce. Journal of Chromatography A, 1995, 715, 317-324. | 1.8 | 15 |
| 83 | Interactions of aminoglycoside antibiotics with phospholipids. A deuterium nuclear magnetic resonance study. Chemistry and Physics of Lipids, 1992, 62, 153-163. | 1.5 | 15 |
| 84 | Detection of ginkgolide A in Ginkgo biloba cell cultures. Plant Cell Reports, 1991, 10, 256-9. | 2.8 | 29 |
| 85 | Nutritional and hormonal requirements of Ginkgo biloba embryo-derived callus and suspension cell culture. Plant Cell Reports, 1990, 8, 635-638. | 2.8 | 42 |
| 86 | Substrate consumption of Methylomonas mucosa. Applied Microbiology and Biotechnology, 1989, 30, 89. | 1.7 | 0 |
| 87 | Water content, lipid deposition, and (+)-abscisic acid content in developing white spruce seeds. , 0, . | | 11 |