Danielle Julie Carrier

List of Publications by Year
in descending order

87	1,678	257450 24	377865 34
papers	citations	h-index	g-index

107	107	107	2148
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	5.7	113
2	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.	2.0	96
3	Pre- and post-harvest processing of medicinal plants. Plant Genetic Resources: Characterisation and Utilisation, 2005, 3, 304-313.	0.8	58
4	Maximizing production of cellulose nanocrystals and nanofibers from pre-extracted loblolly pine kraft pulp: a response surface approach. Bioresources and Bioprocessing, 2020, 7, .	4.2	55
5	Nutritional and hormonal requirements of Ginkgo biloba embryo-derived callus and suspension cell culture. Plant Cell Reports, 1990, 8, 635-638.	5.6	42
6	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.	5.7	42
7	Switchgrass Water Extracts: Extraction, Separation and Biological Activity of Rutin and Quercitrin. Journal of Agricultural and Food Chemistry, 2009, 57, 7763-7770.	5.2	40
8	Distribution of ginkgolides and terpenoid biosynthetic activity in Ginkgo biloba. Phytochemistry, 1998, 48, 89-92.	2.9	39
9	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.	1.1	36
10	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.	6.7	36
11	Cellulose Nanocrystals as Advanced "Green" Materials for Biological and Biomedical Engineering. Journal of Biosystems Engineering, 2015, 40, 373-393.	2.5	35
12	Sustainable Hydrogels Based on Lignin-Methacrylate Copolymers with Enhanced Water Retention and Tunable Material Properties. Biomacromolecules, 2018, 19, 2665-2672.	5.4	34
13	Advancing the Use of Sustainability Metrics in ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2018, 6, 1-1.	6.7	34
14	Extraction of Nutraceuticals from Milk Thistle: Part II. Extraction with Organic Solvents. Applied Biochemistry and Biotechnology, 2003, 108, 891-904.	2.9	33
15	Sweetgum (Liquidambar styraciflua L.): Extraction of Shikimic Acid Coupled to Dilute Acid Pretreatment. Applied Biochemistry and Biotechnology, 2010, 162, 1660-1668.	2.9	33
16	Investigating the effects of hemicellulose pre-extraction on the production and characterization of loblolly pine nanocellulose. Cellulose, 2020, 27, 3693-3706.	4.9	33
17	Comparing extraction methods to recover ginseng saponins from American ginseng (Panax) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf verification. Separation and Purification Technology, 2010, 72, 1-6.	7.9	32
18	Detection of ginkgolide A in Ginkgo biloba cell cultures. Plant Cell Reports, 1991, 10, 256-9.	5.6	29

#	Article	IF	Citations
19	Insights into exo-Cellulase Inhibition by the Hot Water Hydrolyzates of Rice Straw. ACS Sustainable Chemistry and Engineering, 2016, 4, 3627-3633.	6.7	29
20	Applications of Trametes versicolor crude culture filtrates in detoxification of biomass pretreatment hydrolyzates. Bioresource Technology, 2015, 189, 99-106.	9.6	28
21	Pretreatments for Enhanced Enzymatic Hydrolysis of Pinewood: a Review. Bioenergy Research, 2017, 10, 1138-1154.	3.9	28
22	Understanding the Pine Dilute Acid Pretreatment System for Enhanced Enzymatic Hydrolysis. ACS Sustainable Chemistry and Engineering, 2015, 3, 2423-2428.	6.7	27
23	PHYSICAL CHARACTERISTICS AND DRYING RATE OFECHINACEAROOT. Drying Technology, 2002, 20, 637-649.	3.1	26
24	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.	6.7	26
25	Extraction of Antioxidant Compounds from Energy Crops. Applied Biochemistry and Biotechnology, 2004, 114, 569-584.	2.9	24
26	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.	6.7	24
27	Extraction of Nutraceuticals from Milk Thistle: I. Hot Water Extraction. Applied Biochemistry and Biotechnology, 2003, 108, 881-890.	2.9	23
28	Silymarin Extraction from Milk Thistle Using Hot Water. Applied Biochemistry and Biotechnology, 2004, 114, 559-568.	2.9	23
29	Pretreatment of milk thistle seed to increase the silymarin yield: An alternative to petroleum ether defatting. Bioresource Technology, 2008, 99, 2501-2506.	9.6	23
30	Kinetic Modeling of Xylose Oligomer Degradation during Pretreatment in Dilute Acid or in Water. Industrial & Engineering Chemistry Research, 2014, 53, 2219-2228.	3.7	22
31	Glucoraphanin extraction fromCardaria draba: Part 1. Optimization of batch extraction. Journal of Chemical Technology and Biotechnology, 2005, 80, 985-991.	3.2	21
32	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.	1.0	20
33	Extraction of Co-Products from Biomass: Example of Thermal Degradation of Silymarin Compounds in Subcritical Water. Applied Biochemistry and Biotechnology, 2009, 158, 362-373.	2.9	20
34	Separation and purification of xylose oligomers using centrifugal partition chromatography. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 363-370.	3.0	19
35	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
36	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.	5.2	18

#	Article	IF	Citations
37	Understanding thein situstate of lignocellulosic biomass during ionic liquids-based engineering of renewable materials and chemicals. Green Chemistry, 2020, 22, 6748-6766.	9.0	18
38	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
39	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.	6.7	17
40	Interactions of aminoglycoside antibiotics with phospholipids. A deuterium nuclear magnetic resonance study. Chemistry and Physics of Lipids, 1992, 62, 153-163.	3.2	15
41	Gas chromatographic-mass spectrometric characterization of some fatty acids from white and interior spruce. Journal of Chromatography A, 1995, 715, 317-324.	3.7	15
42	Extraction of Hyperoside and Quercitrin From Mimosa (Albizia julibrissin) Foliage. Applied Biochemistry and Biotechnology, 2006, 130, 382-391.	2.9	14
43	Separation of xylose oligomers using centrifugal partition chromatography with a butanolâ€“methanolâ€“water system. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 51-62.	3.0	14
44	Switchgrass storage effects on the recovery of carbohydrates after liquid hot water pretreatment and enzymatic hydrolysis. AIMS Bioengineering, 2016, 3, 389-399.	1.1	14
45	Effect of Albizia julibrissin Water Extracts on Low-Density Lipoprotein Oxidization. Journal of Agricultural and Food Chemistry, 2007, 55, 4704-4709.	5.2	13
46	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.	6.7	13
47	Separation of xylose oligomers from autohydrolyzed MiscanthusÃ—giganteus using centrifugal partition chromatography. Food and Bioproducts Processing, 2015, 95, 125-132.	3.6	13
48	Effects of Oligosaccharides Isolated From Pinewood Hot Water Pre-hydrolyzates on Recombinant Cellulases. Frontiers in Bioengineering and Biotechnology, 2018, 6, 55.	4.1	13
49	Production and Characterization of High Value Prebiotics From Biorefinery-Relevant Feedstocks. Frontiers in Microbiology, 2021, 12, 675314.	3.5	13
50	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.	5.2	12
51	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.	3.0	12
52	Localization of Alkamides, Echinacoside and Cynarin withEchinacea angustifolia. Journal of Herbs, Spices and Medicinal Plants, 2003, 10, 73-81.	1.1	11
53	Water content, lipid deposition, and (+)-abscisic acid content in developing white spruce seeds. Journal of Experimental Botany, 1999, 50, 1359-1364.	4.8	11
54	Beneficial effects of Trametes versicolor pretreatment on saccharification and lignin enrichment of organosolv-pretreated pinewood. RSC Advances, 2017, 7, 45652-45661.	3.6	10

#	Article	IF	Citations
55	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.	6.7	10
56	Production and Fractionation of Xylose Oligomers from Switchgrass Hemicelluloses Using Centrifugal Partition Chromatography. Journal of Liquid Chromatography and Related Technologies, 2015, 38, 801-809.	1.0	9
57	Effects of Drying Temperature and Storage on Parthenolide Concentration of Feverfew (Tanacetum) Tj ETQq1 1 0.784314 rgBT /Overlock	0.5	8
58	Phytochemical Recovery for Valorization of Loblolly Pine and Sweetgum Bark Residues. ACS Sustainable Chemistry and Engineering, 2017, 5, 4258-4266.	6.7	8
59	Four Years of ACS Sustainable Chemistry & Engineering: Reflections and New Developments. ACS Sustainable Chemistry and Engineering, 2017, 5, 1-2.	6.7	8
60	A Sequential Autohydrolysis-Ionic Liquid Fractionation Process for High Quality Lignin Production. Energy & Fuels, 2021, 35, 2293-2302.	5.1	8
61	Drying ofEchinacea angustifoliaRoots. Journal of Herbs, Spices and Medicinal Plants, 2003, 10, 11-18.	1.1	7
62	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.	6.7	7
63	The Evolution of ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 1-1.	6.7	6
64	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.	3.9	6
65	Effect of daptomycin on the barotropic behavior of dioleoylphosphatidylglycerol: an infrared spectroscopic investigation. Chemistry and Physics of Lipids, 1996, 83, 131-140.	3.2	5
66	Echinacoside and Alkamide Distribution inEchinacea angustifoliaRoot. Journal of Nutraceuticals, Functional and Medical Foods, 2001, 3, 95-107.	0.5	5
67	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.	1.4	5
68	Loblolly pine (Pinus taedaL.) essential oil yields affected by environmental and physiological changes. Journal of Sustainable Forestry, 2016, 35, 417-430.	1.4	5
69	Why Wasnâ€™t My ACS Sustainable Chemistry & Engineering Manuscript Sent Out for Review?. ACS Sustainable Chemistry and Engineering, 2019, 7, 1-2.	6.7	5
70	ACS Sustainable Chemistry & Engineering Welcomes Manuscripts on the Circular Economy of Biomass. ACS Sustainable Chemistry and Engineering, 2021, 9, 2410-2411.	6.7	5
71	Characterization and Variation of Essential Oil fromPinus taedaand Antimicrobial Effects against Antibiotic-Resistant and -SusceptibleStaphylococcus aureus. Forest Products Journal, 2014, 64, 161-165.	0.4	4
72	Glucoraphanin extraction fromCardaria draba: Part 2. Countercurrent extraction, bioactivity and toxicity testing. Journal of Chemical Technology and Biotechnology, 2005, 80, 992-997.	3.2	3

#	Article	IF	Citations
73	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.	6.7	3
74	Expectations for Manuscripts in ACS Sustainable Chemistry & Engineering: Scope Summary and Call for Creativity. ACS Sustainable Chemistry and Engineering, 2020, 8, 16046-16047.	6.7	2
75	Expectations for Manuscripts on Biomass Feedstocks and Processing in ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 11031-11032.	6.7	2
76	Effective Assessment Practices for Using Sustainability Metrics: Biomass Processing. ACS Sustainable Chemistry and Engineering, 2021, 9, 14654-14656.	6.7	2
77	Silymarin Extraction from Milk Thistle Using Hot Water. , 2004, , 559-568.		1
78	ACS Sustainable Chemistry & Engineering Welcomes Manuscripts on Alternative Feedstocks. ACS Sustainable Chemistry and Engineering, 2021, 9, 4702-4703.	6.7	1
79	Building Pathways to a Sustainable Planet. ACS Sustainable Chemistry and Engineering, 2022, 10, 1-2.	6.7	1
80	Expectations for Perspectives in ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2021, 9, 16528-16530.	6.7	1
81	Sucrose requirements and lipid utilization during germination of interior spruce (Picea glauca) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.6	1
82	Substrate consumption of Methylomonas mucosa. Applied Microbiology and Biotechnology, 1989, 30, 89.	3.6	0
83	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
84	ACS Sustainable Chemistry & Engineeringâ€™s Impact Factor Continues To Rise. ACS Sustainable Chemistry and Engineering, 2017, 5, 5617-5617.	6.7	0
85	Remembering Professor, Academician, and Editor Lina Zhang. ACS Sustainable Chemistry and Engineering, 2020, 8, 16385-16385.	6.7	0
86	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.	6.7	0
87	Extraction of Hyperoside and Quercitrin From Mimosa (Albizia julibrissin) Foliage. , 2006, , 382-391.		0