Pascale Champagne

List of Publications by Year in descending order

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94269 98622 5,073 129 37 67 citations h-index g-index papers 133 133 133 6315 docs citations times ranked citing authors all docs

#	Article	lF	CITATIONS
1	Overview of recent advances in thermo-chemical conversion of biomass. Energy Conversion and Management, 2010, 51, 969-982.	4.4	900
2	Models for predicting disinfection byproduct (DBP) formation in drinking waters: A chronological review. Science of the Total Environment, 2009, 407, 4189-4206.	3.9	273
3	The role of plants in the removal of nutrients at a constructed wetland treating agricultural (dairy) wastewater, Ontario, Canada. Ecological Engineering, 2007, 29, 154-163.	1.6	203
4	Switchable hydrophilicity solvents for lipid extraction from microalgae for biofuel production. Bioresource Technology, 2012, 118, 628-632.	4.8	171
5	Centrate wastewater treatment with Chlorella vulgaris: Simultaneous enhancement of nutrient removal, biomass and lipid production. Chemical Engineering Journal, 2018, 342, 310-320.	6.6	134
6	Graft modification of natural polysaccharides via reversible deactivation radical polymerization. Progress in Polymer Science, 2018, 76, 151-173.	11.8	126
7	Nutrient removal, microalgal biomass growth, harvesting and lipid yield in response to centrate wastewater loadings. Water Research, 2016, 88, 604-612.	5. 3	118
8	Bio-crude production from secondary pulp/paper-mill sludge and waste newspaper via co-liquefaction in hot-compressed water. Energy, 2011, 36, 2142-2150.	4.5	112
9	Polymerization Induced Self-Assembly of Alginate Based Amphiphilic Graft Copolymers Synthesized by Single Electron Transfer Living Radical Polymerization. Biomacromolecules, 2015, 16, 2040-2048.	2.6	110
10	Wastewater and waste CO2 for sustainable biofuels from microalgae. Algal Research, 2018, 29, 12-21.	2.4	98
11	Screening of supported transition metal catalysts for hydrogen production from glucose via catalytic supercritical water gasification. International Journal of Hydrogen Energy, 2011, 36, 9591-9601.	3.8	96
12	Feasibility of producing bio-ethanol from waste residues: A Canadian perspective. Resources, Conservation and Recycling, 2007, 50, 211-230.	5.3	91
13	Overview of current biological and thermo-chemical treatment technologies for sustainable sludge management. Waste Management and Research, 2014, 32, 586-600.	2.2	72
14	Multivariate statistical analysis of water chemistry conditions in three wastewater stabilization ponds with algae blooms and pH fluctuations. Water Research, 2016, 96, 155-165.	5.3	60
15	Cultivation of the Marine Macroalgae <i>Chaetomorpha linum</i> in Municipal Wastewater for Nutrient Recovery and Biomass Production. Environmental Science & Environmental Sci	4.6	60
16	Chemical changes during composting of a paper mill sludgeâ€"hardwood sawdust mixture. Geoderma, 2003, 116, 345-356.	2.3	58
17	Enhanced biogas production from anaerobic co-digestion of municipal wastewater treatment sludge and fat, oil and grease (FOG) by a modified two-stage thermophilic digester system with selected thermo-chemical pre-treatment. Renewable Energy, 2015, 83, 474-482.	4.3	55
18	Graft modification of cellulose nanocrystals via nitroxide-mediated polymerisation. Polymer Chemistry, 2016, 7, 6383-6390.	1.9	55

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19	A comprehensive review on current technologies for removal of endocrine disrupting chemicals from wastewaters. Environmental Research, 2022, 207, 112196.	3.7	55
20	Investigating effects of bromide ions on trihalomethanes and developing model for predicting bromodichloromethane in drinking water. Water Research, 2010, 44, 2349-2359.	5.3	54
21	Grafting CO ₂ -responsive polymers from cellulose nanocrystals via nitroxide-mediated polymerisation. Polymer Chemistry, 2017, 8, 4124-4131.	1.9	53
22	Risk from exposure to trihalomethanes during shower: Probabilistic assessment and control. Science of the Total Environment, 2009, 407, 1570-1578.	3.9	51
23	Fixed-bed column study for the removal of cadmium (II) and nickel (II) ions from aqueous solutions using peat and mollusk shells. Journal of Hazardous Materials, 2009, 171, 872-878.	6.5	51
24	Extraction of lipids from microalgae using CO 2 -expanded methanol and liquid CO 2. Bioresource Technology, 2015, 184, 286-290.	4.8	51
25	The use of a passive treatment system for the mitigation of acid mine drainage at the Williams Brothers Mine (California): pilot-scale study. Journal of Cleaner Production, 2016, 130, 116-125.	4.6	50
26	Graft modification of crystalline nanocellulose by Cu(0)â€mediated SET living radical polymerization. Journal of Polymer Science Part A, 2015, 53, 2800-2808.	2.5	49
27	Critical indicators of sustainability for biofuels: An analysis through a life cycle sustainabilty assessment perspective. Renewable and Sustainable Energy Reviews, 2019, 115, 109358.	8.2	48
28	Activity and stability of a novel Ru modified Ni catalyst for hydrogen generation by supercritical water gasification of glucose. Fuel, 2012, 96, 541-545.	3.4	47
29	Grafting well-defined CO ₂ -responsive polymers to cellulose nanocrystals via nitroxide-mediated polymerisation: effect of graft density and molecular weight on dispersion behaviour. Polymer Chemistry, 2017, 8, 6000-6012.	1.9	47
30	Use of freshwater macroalgae Spirogyra sp. for the treatment of municipal wastewaters and biomass production for biofuel applications. Biomass and Bioenergy, 2018, 111, 213-223.	2.9	46
31	Modification of chitosan with polystyrene and poly(n-butyl acrylate) via nitroxide-mediated polymerization and grafting from approach in homogeneous media. Polymer Chemistry, 2015, 6, 2827-2836.	1.9	43
32	Microalgae Recovery from Water for Biofuel Production Using CO ₂ -Switchable Crystalline Nanocellulose. Environmental Science & Environmental	4.6	43
33	Bioretention processes for phosphorus pollution control. Environmental Reviews, 2010, 18, 159-173.	2.1	41
34	Enzymatic hydrolysis of cellulosic municipal wastewater treatment process residuals as feedstocks for the recovery of simple sugars. Bioresource Technology, 2009, 100, 5700-5706.	4.8	40
35	Comparative LCA of Flocculation for the Harvesting of Microalgae for Biofuels Production. Procedia CIRP, 2017, 61, 756-760.	1.0	40
36	Microalgal cultivation with waste streams and metabolic constraints to triacylglycerides accumulation for biofuel production. Biofuels, Bioproducts and Biorefining, 2017, 11, 325-343.	1.9	40

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37	Graft-modified cellulose nanocrystals as CO ₂ -switchable Pickering emulsifiers. Polymer Chemistry, 2018, 9, 3864-3872.	1.9	40
38	Graft modification of chitosan, cellulose and alginate using reversible deactivation radical polymerization (RDRP). Current Opinion in Green and Sustainable Chemistry, 2016, 2, 15-21.	3.2	38
39	Advances in microalgal lipid extraction for biofuel production: a review. Biofuels, Bioproducts and Biorefining, 2018, 12, 1118-1135.	1.9	38
40	A review of biopolymer (Poly- \hat{l}^2 -hydroxybutyrate) synthesis in microbes cultivated on wastewater. Science of the Total Environment, 2021, 756, 143729.	3.9	38
41	Biogas production performance of mesophilic and thermophilic anaerobic co-digestion with fat, oil, and grease in semi-continuous flow digesters: effects of temperature, hydraulic retention time, and organic loading rate. Environmental Technology (United Kingdom), 2013, 34, 2125-2133.	1.2	35
42	CO ₂ -Catalysed aldol condensation of 5-hydroxymethylfurfural and acetone to a jet fuel precursor. Green Chemistry, 2016, 18, 5118-5121.	4.6	35
43	Synthesis of CO ₂ -responsive cellulose nanocrystals by surface-initiated Cu(0)-mediated polymerisation. Green Chemistry, 2017, 19, 4141-4152.	4.6	35
44	Effects of Environmental Factors on the Disinfection Performance of a Wastewater Stabilization Pond Operated in a Temperate Climate. Water (Switzerland), 2016, 8, 5.	1.2	34
45	Activated persulfate by iron-based materials used for refractory organics degradation: a review. Water Science and Technology, 2020, 81, 853-875.	1.2	34
46	Quantitative determination of cellulose dissolved in 1-ethyl-3-methylimidazolium acetate using partial least squares regression on FTIR spectra. Carbohydrate Polymers, 2012, 87, 1124-1130.	5.1	32
47	Chitosan modification via nitroxide-mediated polymerization andÂgrafting to approach in homogeneous media. Polymer, 2015, 67, 139-147.	1.8	32
48	Bioethanol from agricultural waste residues. Environmental Progress, 2008, 27, 51-57.	0.8	31
49	Compositional analysis of lignocellulosic biomass: conventional methodologies and future outlook. Critical Reviews in Biotechnology, 2018, 38, 199-217.	5.1	31
50	Fuzzy risk-based decision-making approach for selection of drinking water disinfectants. Journal of Water Supply: Research and Technology - AQUA, 2007, 56, 75-93.	0.6	30
51	Nitrogen removal bacterial strains, MSNA-1 and MSD4, with wide ranges of salinity and pH resistances. Bioresource Technology, 2020, 310, 123309.	4.8	29
52	The role of antibiotics and heavy metals on the development, promotion, and dissemination of antimicrobial resistance in drinking water biofilms. Chemosphere, 2021, 282, 131048.	4.2	29
53	Experimental and Kinetic Study on the Production of Furfural and HMF from Glucose. Catalysts, 2021, 11, 11.	1.6	29
54	Cellulose nanocrystals with CO2-switchable aggregation and redispersion properties. Cellulose, 2015, 22, 3105-3116.	2.4	28

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55	Wastewater treatment for nutrient removal with Ecuadorian native microalgae. Environmental Technology (United Kingdom), 2019, 40, 2977-2985.	1.2	28
56	Evaluating microalgaeâ€toâ€energy â€systems: different approaches to life cycle assessment (<scp>LCA</scp>) studies. Biofuels, Bioproducts and Biorefining, 2016, 10, 883-895.	1.9	27
57	Nitrogen-containing polymers as potent ionogens for aqueous solutions of switchable ionic strength: application to separation of organic liquids and clay particles from water. Green Chemistry, 2012, 14, 3053.	4. 6	26
58	CO ₂ -Catalysed conversion of carbohydrates to 5-hydroxymethyl furfural. Green Chemistry, 2016, 18, 6305-6310.	4.6	26
59	CO2-Responsive Graft Modified Chitosan for Heavy Metal (Nickel) Recovery. Polymers, 2017, 9, 394.	2.0	26
60	Effects of crystalline nanocellulose on wastewater-cultivated microalgal separation and biomass composition. Applied Energy, 2019, 239, 207-217.	5.1	26
61	A Bench-scale Assessment of a Combined Passive System to Reduce Concentrations of Metals and Sulphate in Acid Mine Drainage. Mine Water and the Environment, 2005, 24, 124-133.	0.9	25
62	The role of algae in the removal and inactivation of pathogenic indicator organisms in wastewater stabilization pond systems. Algal Research, 2020, 46, 101777.	2.4	24
63	Pilot-scale comparison of two hybrid-passive landfill leachate treatment systems operated in a cold climate. Bioresource Technology, 2012, 104, 119-126.	4.8	23
64	Comparative LCA of Three Alternative Technologies for Lipid Extraction in Biodiesel from Microalgae Production. Energy Procedia, 2017, 113, 244-250.	1.8	23
65	Comparison of cell disruption techniques prior to lipid extraction from <i>Scenedesmus </i> slurries for biodiesel production using liquid CO < sub > 2 < /sub > . Green Chemistry, 2018, 20, 4330-4338.	4.6	23
66	Disinfection processes and mechanisms in wastewater stabilization ponds: a review. Environmental Reviews, 2018, 26, 417-429.	2.1	21
67	Microsuspension Polymerization of Styrene Using Cellulose Nanocrystals as Pickering Emulsifiers: On the Evolution of Latex Particles. Langmuir, 2020, 36, 796-809.	1.6	21
68	PEGylation of Chitosan Via Nitroxideâ€Mediated Polymerization in Aqueous Media. Macromolecular Reaction Engineering, 2016, 10, 82-89.	0.9	20
69	Poly(Poly(Ethylene Glycol) Methyl Ether Methacrylate) Grafted Chitosan for Dye Removal from Water. Processes, 2017, 5, 12.	1.3	19
70	Factors Influencing Formation of Trihalomethanes in Drinking Water: Results from Multivariate Statistical Investigation of the Ontario Drinking Water Surveillance Program Database. Water Quality Research Journal of Canada, 2008, 43, 189-199.	1.2	18
71	Use of Sphagnum peat moss and crushed mollusk shells in fixed-bed columns for the treatment of synthetic landfill leachate. Journal of Material Cycles and Waste Management, 2009, 11, 339-347.	1.6	18
72	Pathogen removal from domestic and swine wastewater by experimental constructed wetlands. Water Science and Technology, 2015, 71, 1263-1270.	1.2	17

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73	Lyophilization pretreatment facilitates extraction of soluble proteins and active enzymes from the oil-accumulating microalga Chlorella vulgaris. Algal Research, 2017, 25, 439-444.	2.4	17
74	Phosphorus-containing polymers synthesised <i>via</i> nitroxide-mediated polymerisation and their grafting on chitosan by <i>grafting to</i> and <i>grafting from</i> approaches. Polymer Chemistry, 2020, 11, 4133-4142.	1.9	17
75	The effect of subcritical carbon dioxide on the dissolution of cellulose in the ionic liquid 1-ethyl-3-methylimidazolium acetate. Cellulose, 2012, 19, 37-44.	2.4	16
76	Nitrogen Rich CO2-Responsive Polymers as Forward Osmosis Draw Solutes. Industrial & Engineering Chemistry Research, 2019, 58, 22579-22586.	1.8	16
77	Review of lifeâ€cycle greenhouseâ€gas emissions assessments of hydroprocessed renewable fuel (<scp>HEFA</scp>) from oilseeds. Biofuels, Bioproducts and Biorefining, 2020, 14, 935-949.	1.9	16
78	Composition and uses of anaerobic digestion derived biogas from wastewater treatment facilities in North America. Waste Management and Research, 2015, 33, 767-771.	2.2	15
79	Use of wastewater treatment plant biogas for the operation of Solid Oxide Fuel Cells (SOFCs). Journal of Environmental Management, 2017, 203, 753-759.	3.8	15
80	Transesterification of soybean oil using a switchable-hydrophilicity solvent, 2-(dibutylamino)ethanol. Green Chemistry, 2019, 21, 4786-4791.	4.6	15
81	Environmental Assessment of Co-location Alternatives for a Microalgae Cultivation Plant: A Case Study in the City of Kingston (Canada). Energy Procedia, 2016, 95, 29-36.	1.8	14
82	Factorial Analysis of Trihalomethanes Formation in Drinking Water. Water Environment Research, 2010, 82, 556-566.	1.3	13
83	Polysaccharide-stabilized core cross-linked polymer micelle analogues. Polymer Chemistry, 2012, 3, 992.	1.9	13
84	An event-based hydrologic simulation model for bioretention systems. Water Science and Technology, 2015, 72, 1524-1533.	1.2	13
85	Effects of different substrates in the mitigation of algae-induced high pH wastewaters in a pilot-scale free water surface wetland system. Water Science and Technology, 2017, 75, 1-10.	1.2	13
86	Impact of Temperature and Loading on the Mitigation of AMD in Peat Biofilter Columns. Mine Water and the Environment, 2008, 27, 225.	0.9	11
87	Determination of Algae and Macrophyte Species Distribution in Three Wastewater Stabilization Ponds Using Metagenomics Analysis. Water (Switzerland), 2015, 7, 3225-3242.	1.2	11
88	Time series relationships between chlorophyll-a, dissolved oxygen, and pH in three facultative wastewater stabilization ponds. Environmental Science: Water Research and Technology, 2016, 2, 1032-1040.	1.2	11
89	Peat as Substrate for Small-Scale Constructed Wetlands Polishing Secondary Effluents from Municipal Wastewater Treatment Plant. Water (Switzerland), 2017, 9, 928.	1.2	11
90	Surface Modification of Cellulose Nanocrystals via RAFT Polymerization of CO ₂ -Responsive Monomer-Tuning Hydrophobicity. Langmuir, 2020, 36, 13989-13997.	1.6	11

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91	Inâ€situ addition of carboxylated cellulose nanocrystals in seeded semiâ€batch emulsion polymerization. Canadian Journal of Chemical Engineering, 2022, 100, 767-779.	0.9	11
92	Performance evaluation of a hybrid-passive landfill leachate treatment system using multivariate statistical techniques. Waste Management, 2015, 35, 159-169.	3.7	10
93	Polysaccharideâ€Based Nanoparticles as Pickering Emulsifiers in Emulsion Formulations and Heterogenous Polymerization Systems. Macromolecular Rapid Communications, 2022, 43, e2100493.	2.0	10
94	Examination of sludge accumulation rates and sludge characteristics for a decentralized community wastewater treatment systems with individual primary clarifier tanks located in Wardsville (Ontario,) Tj ETQq0 C) O ng&T /C	Over∮ock 10 Tf
95	Greener solvent systems for copper wire-mediated living radical polymerisation. Green Materials, 2016, 4, 104-114.	1.1	9
96	Pilot-scale evaluation of semi-passive treatment technologies for the treatment of septage under temperate climate conditions. Journal of Environmental Management, 2018, 216, 357-371.	3.8	9
97	A proposed transient model for cometabolism in biofilm systems. , 1998, 60, 541-550.		8
98	Hydraulic performance of a mature wetland treating milkhouse wastewater and agricultural runoff. Water Science and Technology, 2009, 59, 2455-2462.	1.2	8
99	The NE Atlantic glass sponges Pheronema carpenteri (Thomson) and P. grayi Kent (Porifera:) Tj ETQq1 1 0.7843	14 rgBT /C	Overlock 10 Ti
100	The use of passive treatment alternatives for the mitigation of acidic drainage at the Williams Brother mine, California: Bench-scale study. Applied Geochemistry, 2010, 25, 958-971.	1.4	7
101	Anaerobic co-digestion of municipal organic wastes and pre-treatment to enhance biogas production from waste. Water Science and Technology, 2014, 69, 443-450.	1.2	7
102	RAFT-mediated polymerisation of dialkylaminoethyl methacrylates in <i>tert</i> butanol. Polymer Chemistry, 2019, 10, 1938-1946.	1.9	7
103	CO ₂ -Responsive Branched Polymers for Forward Osmosis Applications: The Effect of Branching on Draw Solute Properties. Industrial & Engineering Chemistry Research, 2021, 60, 9807-9816.	1.8	7
104	Application of optical microscopy as a screening technique for cellulose and lignin solvent systems. Canadian Journal of Chemical Engineering, 2012, 90, 1142-1152.	0.9	6
105	Assessment of Metal Attenuation in a Natural Wetland System Impacted by Alkaline Mine Tailings, Cobalt, Ontario, Canada. Mine Water and the Environment, 2007, 26, 181-190.	0.9	5
106	Carbon dioxide pressure-induced coagulation of microalgae. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20150016.	1.6	5
107	Improving Recycled Poly(lactic Acid) Biopolymer Properties by Chain Extension Using Block Copolymers Synthesized by Nitroxide-Mediated Polymerization (NMP). Polymers, 2021, 13, 2791.	2.0	5
108	Conversion of lignin pyrolysis oil to cyclohexyl methyl ethers as a promising biomass-derived solvent. Green Chemistry, 2021, 23, 2457-2463.	4.6	4

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109	Optimization of biogas production during start-up with electrode-assisted anaerobic digestion. Chemosphere, 2022, 302, 134739.	4.2	4
110	Potential utilisation of pulp and paper mill biosolids in composting and plant production: a case study at St. Marys Papers Ltd. (Canada). International Journal of Environment and Waste Management, 2012, 10, 118.	0.2	3
111	Life Cycle Analysis of the Production of Biodiesel from Microalgae. Green Energy and Technology, 2019, , 155-169.	0.4	3
112	Perspective on the controlled polymerâ€modification of chitosan and cellulose nanocrystals: Towards the design of functional materials. Canadian Journal of Chemical Engineering, 2021, 99, 2087-2104.	0.9	3
113	Temperature Stratification in an Operational Waste-Stabilization Pond. Journal of Environmental Engineering, ASCE, 2021, 147, .	0.7	3
114	A Semiâ€Batch Flow System for the Production of 5â€Chloromethylfurfural. Chemistry Methods, 2021, 1, 438-443.	1.8	3
115	Selecting Water Disinfection Processes using Fuzzy Synthetic Evaluation Technique. Water Quality Research Journal of Canada, 2008, 43, 1-10.	1.2	3
116	Bio-Product Recovery From Lignocellulosic Materials Derived From Poultry Manure. Bulletin of Science, Technology and Society, 2008, 28, 219-226.	1.1	2
117	Treatability study of two hybrid-passive treatment systems for landfill leachate operated at cold temperature. Water Quality Research Journal of Canada, 2011, 46, 230-238.	1.2	2
118	Brown to green and sustainable chemistry. Current Opinion in Green and Sustainable Chemistry, 2016, 2, iii-iv.	3.2	2
119	Feasibility of a microalgal wastewater treatment for the removal of nutrients under nonâ€sterile conditions and carbon limitation. Canadian Journal of Chemical Engineering, 2019, 97, 1289-1298.	0.9	2
120	Time series relationships between chlorophyll-a, physicochemical parameters, and nutrients in the Eastern Harbour of Alexandria, Egypt. Environmental Monitoring and Assessment, 2021, 193, 826.	1.3	2
121	Mathematical Description of the RAFT Copolymerization of Styrene and Glycidyl Methacrylate Using the Terminal Model. Polymers, 2022, 14, 1448.	2.0	2
122	Nonâ€Covalent Polymer Surface Modification of Cellulose Nanocrystals Using Block Copolymers. Macromolecular Reaction Engineering, 2022, 16, .	0.9	2
123	FROM WASTE TO PRODUCT: DEVELOPING PULP AND PAPER MILL BIOSOLIDS INTO A MARKETABLE PRODUCT. Proceedings of the Water Environment Federation, 2005, 2005, 358-374.	0.0	1
124	Disinfection Performance in Wastewater Stabilization Ponds in Cold Climate Conditions: A Case Study in Nunavut, Canada. Environments - MDPI, 2017, 4, 93.	1.5	1
125	Synthesis of Biohybrid Particles by Modification of Chitosan Beads via RAFT Polymerization in Dispersed Media. Macromolecular Reaction Engineering, 2020, 14, 2000029.	0.9	1
126	Land application and passive stabilisation of pulp and paper biosolids: a case study. World Review of Science, Technology and Sustainable Development, 2010, 7, 198.	0.3	0

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127	Special issue on Challenges in Environmental Science and Engineering, CESE-2013: 29 Oct.–2 Nov., EXCO, Daegu, Republic of Korea. International Biodeterioration and Biodegradation, 2014, 95, 1.	1.9	O
128	Cover Image, Volume 14, Issue 5. Biofuels, Bioproducts and Biorefining, 2020, 14, i.	1.9	0
129	ENHANCED REMOVAL OF ORGANIC MATTER AND NUTRIENTS BY SEQUENTIAL BATCH REACTORS. Environmental Engineering and Management Journal, 2019, 18, 2417-2427.	0.2	O