Pascale Champagne

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	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
2	A comprehensive review on current technologies for removal of endocrine disrupting chemicals from wastewaters. Environmental Research, 2022, 207, 112196.	3.7	55
3	Polysaccharideâ€Based Nanoparticles as Pickering Emulsifiers in Emulsion Formulations and Heterogenous Polymerization Systems. Macromolecular Rapid Communications, 2022, 43, e2100493.	2.0	10
4	Mathematical Description of the RAFT Copolymerization of Styrene and Glycidyl Methacrylate Using the Terminal Model. Polymers, 2022, 14, 1448.	2.0	2
5	Nonâ€Covalent Polymer Surface Modification of Cellulose Nanocrystals Using Block Copolymers. Macromolecular Reaction Engineering, 2022, 16, .	0.9	2
6	Optimization of biogas production during start-up with electrode-assisted anaerobic digestion. Chemosphere, 2022, 302, 134739.	4.2	4
7	A review of biopolymer (Poly-Î²-hydroxybutyrate) synthesis in microbes cultivated on wastewater. Science of the Total Environment, 2021, 756, 143729.	3.9	38
8	Conversion of lignin pyrolysis oil to cyclohexyl methyl ethers as a promising biomass-derived solvent. Green Chemistry, 2021, 23, 2457-2463.	4.6	4
9	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
10	Temperature Stratification in an Operational Waste-Stabilization Pond. Journal of Environmental Engineering, ASCE, 2021, 147, .	0.7	3
11	A Semiâ€Batch Flow System for the Production of 5â€Chloromethylfurfural. Chemistry Methods, 2021, 1, 438-443.	1.8	3
12	CO₂-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
13	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
14	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
15	Experimental and Kinetic Study on the Production of Furfural and HMF from Glucose. Catalysts, 2021, 11, 11.	1.6	29
16	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
17	Microsuspension Polymerization of Styrene Using Cellulose Nanocrystals as Pickering Emulsifiers: On the Evolution of Latex Particles. Langmuir, 2020, 36, 796-809.	1.6	21
18	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

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19	Surface Modification of Cellulose Nanocrystals via RAFT Polymerization of CO₂-Responsive Monomer-Tuning Hydrophobicity. Langmuir, 2020, 36, 13989-13997.	1.6	11
20	Synthesis of Biohybrid Particles by Modification of Chitosan Beads via RAFT Polymerization in Dispersed Media. Macromolecular Reaction Engineering, 2020, 14, 2000029.	0.9	1
21	Cover Image, Volume 14, Issue 5. Biofuels, Bioproducts and Biorefining, 2020, 14, i.	1.9	0
22	Nitrogen removal bacterial strains, MSNA-1 and MSD4, with wide ranges of salinity and pH resistances. Bioresource Technology, 2020, 310, 123309.	4.8	29
23	Activated persulfate by iron-based materials used for refractory organics degradation: a review. Water Science and Technology, 2020, 81, 853-875.	1.2	34
24	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
25	Phosphorus-containing polymers synthesised via nitroxide-mediated polymerisation and their grafting on chitosan by grafting to and grafting from approaches. Polymer Chemistry, 2020, 11, 4133-4142.	1.9	17
26	Transesterification of soybean oil using a switchable-hydrophilicity solvent, 2-(dibutylamino)ethanol. Green Chemistry, 2019, 21, 4786-4791.	4.6	15
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	Nitrogen Rich CO2-Responsive Polymers as Forward Osmosis Draw Solutes. Industrial & Engineering Chemistry Research, 2019, 58, 22579-22586.	1.8	16
29	Effects of crystalline nanocellulose on wastewater-cultivated microalgal separation and biomass composition. Applied Energy, 2019, 239, 207-217.	5.1	26
30	RAFT-mediated polymerisation of dialkylaminoethyl methacrylates in tert-butanol. Polymer Chemistry, 2019, 10, 1938-1946.	1.9	7
31	Life Cycle Analysis of the Production of Biodiesel from Microalgae. Green Energy and Technology, 2019, , 155-169.	0.4	3
32	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
33	Wastewater treatment for nutrient removal with Ecuadorian native microalgae. Environmental Technology (United Kingdom), 2019, 40, 2977-2985.	1.2	28
34	ENHANCED REMOVAL OF ORGANIC MATTER AND NUTRIENTS BY SEQUENTIAL BATCH REACTORS. Environmental Engineering and Management Journal, 2019, 18, 2417-2427.	0.2	0
35	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
36	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

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37	Compositional analysis of lignocellulosic biomass: conventional methodologies and future outlook. Critical Reviews in Biotechnology, 2018, 38, 199-217.	5.1	31
38	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
39	Wastewater and waste CO2 for sustainable biofuels from microalgae. Algal Research, 2018, 29, 12-21.	2.4	98
40	Graft modification of natural polysaccharides via reversible deactivation radical polymerization. Progress in Polymer Science, 2018, 76, 151-173.	11.8	126
41	Comparison of cell disruption techniques prior to lipid extraction fromScenedesmussp. slurries for biodiesel production using liquid CO₂. Green Chemistry, 2018, 20, 4330-4338.	4.6	23
42	Graft-modified cellulose nanocrystals as CO₂-switchable Pickering emulsifiers. Polymer Chemistry, 2018, 9, 3864-3872.	1.9	40
43	Disinfection processes and mechanisms in wastewater stabilization ponds: a review. Environmental Reviews, 2018, 26, 417-429.	2.1	21
44	Advances in microalgal lipid extraction for biofuel production: a review. Biofuels, Bioproducts and Biorefining, 2018, 12, 1118-1135.	1.9	38
45	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
46	Cultivation of the Marine Macroalgae Chaetomorpha linum in Municipal Wastewater for Nutrient Recovery and Biomass Production. Environmental Science & Technology, 2017, 51, 3558-3566.	4.6	60
47	Grafting CO₂-responsive polymers from cellulose nanocrystals via nitroxide-mediated polymerisation. Polymer Chemistry, 2017, 8, 4124-4131.	1.9	53
48	Comparative LCA of Three Alternative Technologies for Lipid Extraction in Biodiesel from Microalgae Production. Energy Procedia, 2017, 113, 244-250.	1.8	23
49	Grafting well-defined CO₂-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
50	Synthesis of CO₂-responsive cellulose nanocrystals by surface-initiated Cu(0)-mediated polymerisation. Green Chemistry, 2017, 19, 4141-4152.	4.6	35
51	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
52	Comparative LCA of Flocculation for the Harvesting of Microalgae for Biofuels Production. Procedia CIRP, 2017, 61, 756-760.	1.0	40
53	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
54	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

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55	Poly(Poly(Ethylene Glycol) Methyl Ether Methacrylate) Grafted Chitosan for Dye Removal from Water. Processes, 2017, 5, 12.	1.3	19
56	Peat as Substrate for Small-Scale Constructed Wetlands Polishing Secondary Effluents from Municipal Wastewater Treatment Plant. Water (Switzerland), 2017, 9, 928.	1.2	11
57	Disinfection Performance in Wastewater Stabilization Ponds in Cold Climate Conditions: A Case Study in Nunavut, Canada. Environments - MDPI, 2017, 4, 93.	1.5	1
58	CO2-Responsive Graft Modified Chitosan for Heavy Metal (Nickel) Recovery. Polymers, 2017, 9, 394.	2.0	26
59	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
60	Brown to green and sustainable chemistry. Current Opinion in Green and Sustainable Chemistry, 2016, 2, iii-iv.	3.2	2
61	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
62	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
63	CO₂-Catalysed conversion of carbohydrates to 5-hydroxymethyl furfural. Green Chemistry, 2016, 18, 6305-6310.	4.6	26
64	Graft modification of cellulose nanocrystals via nitroxide-mediated polymerisation. Polymer Chemistry, 2016, 7, 6383-6390.	1.9	55
65	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
66	Greener solvent systems for copper wire-mediated living radical polymerisation. Green Materials, 2016, 4, 104-114.	1.1	9
67	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
68	PEGylation of Chitosan Via Nitroxideâ€Mediated Polymerization in Aqueous Media. Macromolecular Reaction Engineering, 2016, 10, 82-89.	0.9	20
69	CO₂-Catalysed aldol condensation of 5-hydroxymethylfurfural and acetone to a jet fuel precursor. Green Chemistry, 2016, 18, 5118-5121.	4.6	35
70	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
71	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
72	Microalgae Recovery from Water for Biofuel Production Using CO₂-Switchable Crystalline Nanocellulose. Environmental Science & Technology, 2016, 50, 7896-7903.	4.6	43

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73	Nutrient removal, microalgal biomass growth, harvesting and lipid yield in response to centrate wastewater loadings. Water Research, 2016, 88, 604-612.	5.3	118
74	An event-based hydrologic simulation model for bioretention systems. Water Science and Technology, 2015, 72, 1524-1533.	1.2	13
75	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
76	Determination of Algae and Macrophyte Species Distribution in Three Wastewater Stabilization Ponds Using Metagenomics Analysis. Water (Switzerland), 2015, 7, 3225-3242.	1.2	11
77	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
78	Carbon dioxide pressure-induced coagulation of microalgae. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20150016.	1.6	5
79	Pathogen removal from domestic and swine wastewater by experimental constructed wetlands. Water Science and Technology, 2015, 71, 1263-1270.	1.2	17
80	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
81	Cellulose nanocrystals with CO2-switchable aggregation and redispersion properties. Cellulose, 2015, 22, 3105-3116.	2.4	28
82	Chitosan modification via nitroxide-mediated polymerization andÂgrafting to approach in homogeneous media. Polymer, 2015, 67, 139-147.	1.8	32
83	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
84	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
85	Extraction of lipids from microalgae using CO 2 -expanded methanol and liquid CO 2. Bioresource Technology, 2015, 184, 286-290.	4.8	51
86	Performance evaluation of a hybrid-passive landfill leachate treatment system using multivariate statistical techniques. Waste Management, 2015, 35, 159-169.	3.7	10
87	Overview of current biological and thermo-chemical treatment technologies for sustainable sludge management. Waste Management and Research, 2014, 32, 586-600.	2.2	72
88	Special issue on Challenges in Environmental Science and Engineering, CESE-2013: 29 Oct.â€“2 Nov., EXCO, Daegu, Republic of Korea. International Biodeterioration and Biodegradation, 2014, 95, 1.	1.9	0
89	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
90	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

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91	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
92	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
93	Switchable hydrophilicity solvents for lipid extraction from microalgae for biofuel production. Bioresource Technology, 2012, 118, 628-632.	4.8	171
94	Polysaccharide-stabilized core cross-linked polymer micelle analogues. Polymer Chemistry, 2012, 3, 992.	1.9	13
95	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
96	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
97	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
98	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
99	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
100	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
101	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
102	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
103	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 ETQq1 1 0.784314 rgBT /Over		
104	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
105	Factorial Analysis of Trihalomethanes Formation in Drinking Water. Water Environment Research, 2010, 82, 556-566.	1.3	13
106	Overview of recent advances in thermo-chemical conversion of biomass. Energy Conversion and Management, 2010, 51, 969-982.	4.4	900
107	Bioretention processes for phosphorus pollution control. Environmental Reviews, 2010, 18, 159-173.	2.1	41
108	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

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109	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
110	Hydraulic performance of a mature wetland treating milkhouse wastewater and agricultural runoff. Water Science and Technology, 2009, 59, 2455-2462.	1.2	8
111	Risk from exposure to trihalomethanes during shower: Probabilistic assessment and control. Science of the Total Environment, 2009, 407, 1570-1578.	3.9	51
112	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
113	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
114	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
115	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
116	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
117	Bioethanol from agricultural waste residues. Environmental Progress, 2008, 27, 51-57.	0.8	31
118	Bio-Product Recovery From Lignocellulosic Materials Derived From Poultry Manure. Bulletin of Science, Technology and Society, 2008, 28, 219-226.	1.1	2
119	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
120	Selecting Water Disinfection Processes using Fuzzy Synthetic Evaluation Technique. Water Quality Research Journal of Canada, 2008, 43, 1-10.	1.2	3
121	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
122	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
123	Feasibility of producing bio-ethanol from waste residues: A Canadian perspective. Resources, Conservation and Recycling, 2007, 50, 211-230.	5.3	91
124	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
125	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
126	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

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127	Chemical changes during composting of a paper mill sludgeâ€“hardwood sawdust mixture. Geoderma, 2003, 116, 345-356.	2.3	58
128	A proposed transient model for cometabolism in biofilm systems. , 1998, 60, 541-550.		8
129	The NE Atlantic glass sponges Pheronema carpenteri (Thomson) and P. grayi Kent (Porifera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.0	7