Francois Perreault

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83 papers	5,583 citations	32 h-index	74 g-index
87 ext. papers	6,517 ext. citations	8.2 avg, IF	6.38 L-index

#	Paper	IF	Citations
83	Ammonia recovery and fouling mitigation of hydrolyzed human urine treated by nanofiltration and reverse osmosis. *Environmental Science: Water Research and Technology*, **2022**, 8, 429-442	4.2	1
82	Aging of microplastics increases their adsorption affinity towards organic contaminants.. *Chemosphere*, **2022**, 298, 134238	8.4	8
81	Controlling silver release from antibacterial surface coatings on stainless steel for biofouling control. *Colloids and Surfaces B: Biointerfaces*, **2022**, 112562	6	0
80	Adsorption of organic pollutants by microplastics: Overview of a dissonant literature. *Journal of Hazardous Materials Advances*, **2022**, 6, 100091		0
79	Facile Surface Modification of Polyamide Membranes Using UV-Photooxidation Improves Permeability and Reduces Natural Organic Matter Fouling. *Environmental Science & Technology* , **2021**, 55, 6984-6994	10.3	2
78	Similar toxicity mechanisms between graphene oxide and oxidized multi-walled carbon nanotubes in Microcystis aeruginosa. *Chemosphere*, **2021**, 265, 129137	8.4	11
77	Photocatalytic treatment of natural waters. Reality or hype? The case of cyanotoxins remediation. *Water Research*, **2021**, 188, 116543	12.5	35
76	Nanoparticle-templated polyamide membranes for improved biofouling resistance. *Environmental Science: Nano*, **2021**, 8, 565-579	7.1	4
75	Emerging investigator series: a multispecies analysis of the relationship between oxygen content and toxicity in graphene oxide. *Environmental Science: Nano*, **2021**, 8, 1543-1559	7.1	
74	Bursting out: linking changes in nanotopography and biomechanical properties of biofilm-forming Escherichia coli to the T4 lytic cycle. *Npj Biofilms and Microbiomes*, **2021**, 7, 26	8.2	2
73	Electrochemically-active carbon nanotube coatings for biofouling mitigation: Cleaning kinetics and energy consumption for cathodic and anodic regimes. *Journal of Colloid and Interface Science*, **2021**, 603, 391-397	9.3	4
72	Pore wetting in membrane distillation treatment of municipal wastewater desalination brine and its mitigation by foam fractionation. *Chemosphere*, **2020**, 257, 127214	8.4	18
71	Portable point-of-use photoelectrocatalytic device provides rapid water disinfection. *Science of the Total Environment*, **2020**, 737, 140044	10.2	21
70	Increasing net water recovery of reverse osmosis with membrane distillation using natural thermal differentials between brine and co-located water sources: Impacts at large reclamation facilities. *Water Research*, **2020**, 184, 116134	12.5	13
69	Rejection of nitrogen species in real fresh and hydrolyzed human urine by reverse osmosis and nanofiltration. *Journal of Environmental Chemical Engineering*, **2020**, 8, 103993	6.8	20
68	Freestanding self-assembled sulfonated pentablock terpolymer membranes for high flux pervaporation desalination. *Journal of Membrane Science*, **2020**, 613, 118460	9.6	11
67	Scaling Resistance in Nanophotonics-Enabled Solar Membrane Distillation. *Environmental Science & Technology*, **2020**, 54, 2548-2555	10.3	18

66	All Dry Bottom-Up Assembly of Omniphobic Interfaces. *Advanced Materials Interfaces*, **2020**, 7, 1902159	4.6	5
65	Graphene/polymer nanocomposite degradation by ultraviolet light: The effects of graphene nanofillers and their potential for release. *Polymer Degradation and Stability*, **2020**, 182, 109365	4.7	10
64	Doing nano-enabled water treatment right: sustainability considerations from design and research through development and implementation. *Environmental Science: Nano*, **2020**, 7, 3255-3278	7.1	5
63	Germicidal glowsticks: Side-emitting optical fibers inhibit Pseudomonas aeruginosa and Escherichia coli on surfaces. *Water Research*, **2020**, 184, 116191	12.5	3
62	Prolonging the antibacterial activity of nanosilver-coated membranes through partial sulfidation. *Environmental Science: Nano*, **2020**, 7, 2607-2617	7.1	2
61	Ammonia Recovery from Hydrolyzed Human Urine by Forward Osmosis with Acidified Draw Solution. *Environmental Science & Technology*, **2020**, 54, 11556-11565	10.3	13
60	Linear solvation energy relationship development for adsorption of synthetic organic compounds by carbon nanomaterials: an overview of the last decade. *Environmental Science: Water Research and Technology*, **2020**, 6, 2949-2957	4.2	2
59	Urea recovery from fresh human urine by forward osmosis and membrane distillation (FOMD). *Environmental Science: Water Research and Technology*, **2019**, 5, 1993-2003	4.2	26
58	Comparing membrane and spacer biofouling by Gram-negative Pseudomonas aeruginosa and Gram-positive Anoxybacillus sp. in forward osmosis. *Biofouling*, **2019**, 35, 104-116	3.3	5
57	Polyamide thin-film nanocomposite membranes with graphene oxide nanosheets: Balancing membrane performance and fouling propensity. *Desalination*, **2019**, 451, 139-147	10.3	50
56	Structure-Property-Toxicity Relationships of Graphene Oxide: Role of Surface Chemistry on the Mechanisms of Interaction with Bacteria. *Environmental Science & Technology*, **2019**, 53, 14679-14687	10.3	19
55	Comparative assessment of acute and chronic ecotoxicity of water soluble fractions of diesel and biodiesel on Daphnia magna and Aliivibrio fischeri. *Chemosphere*, **2019**, 221, 640-646	8.4	11
54	The role of nanotechnology in tackling global water challenges. *Nature Sustainability*, **2018**, 1, 166-175	22.1	241
53	Removal of Bromide from Surface Water: Comparison Between Silver-Impregnated Graphene Oxide and Silver-Impregnated Powdered Activated Carbon. *Environmental Engineering Science*, **2018**, 35, 988-995	2	11
52	Elucidating the Role of Oxidative Debris in the Antimicrobial Properties of Graphene Oxide. *ACS Applied Nano Materials*, **2018**, 1, 1164-1174	5.6	25
51	Fines adsorption on nanoparticle-coated surface. *Acta Geotechnica*, **2018**, 13, 219-226	4.9	16
50	Effect of cadmium accumulation on green algae Chlamydomonas reinhardtii and acid-tolerant Chlamydomonas CPCC 121. *Chemosphere*, **2018**, 191, 174-182	8.4	42
49	Physisorption and chemisorption of T4 bacteriophages on amino functionalized silica particles. *Journal of Colloid and Interface Science*, **2018**, 532, 68-76	9.3	12

48	Four release tests exhibit variable silver stability from nanoparticle-modified reverse osmosis membranes. *Water Research*, **2018**, 143, 77-86	12.5	21
47	Electrochemical self-cleaning anodic surfaces for biofouling control during water treatment. *Electrochemistry Communications*, **2018**, 96, 83-87	5.1	24
46	Development of anti-biofouling feed spacers to improve performance of reverse osmosis modules. *Water Research*, **2018**, 145, 599-607	12.5	17
45	Bromide and Other Halide Ion Removal From Drinking Waters Using Silver-Amended Coagulation. *Journal - American Water Works Association*, **2018**, 110, 13-24	0.5	1
44	Interfacial tension and contact angle in CO2-water/nanofluid-quartz system **2018**, 8, 734-746		5
43	Post-fabrication modification of electrospun nanofiber mats with polymer coating for membrane distillation applications. *Journal of Membrane Science*, **2017**, 530, 158-165	9.6	70
42	Adsorption of organic contaminants by graphene nanosheets: A review. *Water Research*, **2017**, 126, 385-398	12.5	251
41	Thin-film composite forward osmosis membranes functionalized with graphene oxide–silver nanocomposites for biofouling control. *Journal of Membrane Science*, **2017**, 525, 146-156	9.6	137
40	Effect of chromium oxide (III) nanoparticles on the production of reactive oxygen species and photosystem II activity in the green alga Chlamydomonas reinhardtii. *Science of the Total Environment*, **2016**, 565, 951-960	10.2	52
39	Shape-Dependent Surface Reactivity and Antimicrobial Activity of Nano-Cupric Oxide. *Environmental Science & Technology*, **2016**, 50, 3975-84	10.3	78
38	Antimicrobial Properties of Graphene Nanomaterials: Mechanisms and Applications. *Carbon Nanostructures*, **2016**, 287-322	0.6	
37	Removal of Particulate Contamination from Solid Surfaces Using Polymeric Micropillars. *ACS Applied Materials & Interfaces*, **2016**, 8, 16967-78	9.5	11
36	Biofouling Mitigation in Forward Osmosis Using Graphene Oxide Functionalized Thin-Film Composite Membranes. *Environmental Science & Technology*, **2016**, 50, 5840-8	10.3	141
35	Antimicrobial Properties of Graphene Oxide Nanosheets: Why Size Matters. *ACS Nano*, **2015**, 9, 7226-36	16.7	620
34	Antimicrobial Electrospun Biopolymer Nanofiber Mats Functionalized with Graphene Oxide-Silver Nanocomposites. *ACS Applied Materials & Interfaces*, **2015**, 7, 12751-9	9.5	213
33	Environmental applications of graphene-based nanomaterials. *Chemical Society Reviews*, **2015**, 44, 5861-96	38.5	1022
32	Interaction of Graphene Oxide with Bacterial Cell Membranes: Insights from Force Spectroscopy. *Environmental Science and Technology Letters*, **2015**, 2, 112-117	11	135
31	Controlled Architecture of Dual-Functional Block Copolymer Brushes on Thin-Film Composite Membranes for Integrated "Defending" and "Attacking" Strategies against Biofouling. *ACS Applied Materials & Interfaces*, **2015**, 7, 23069-79	9.5	168

30	Impaired Performance of Pressure-Retarded Osmosis due to Irreversible Biofouling. *Environmental Science & Technology*, **2015**, 49, 13050-8	10.3	64
29	Thin-Film Composite Polyamide Membranes Functionalized with Biocidal Graphene Oxide Nanosheets. *Environmental Science and Technology Letters*, **2014**, 1, 71-76	11	396
28	Different toxicity mechanisms between bare and polymer-coated copper oxide nanoparticles in Lemna gibba. *Environmental Pollution*, **2014**, 185, 219-27	9.3	100
27	Effect of soluble copper released from copper oxide nanoparticles solubilisation on growth and photosynthetic processes of Lemna gibba L. *Nanotoxicology*, **2014**, 8, 374-82	5.3	103
26	Toxicity of PAMAM-coated gold nanoparticles in different unicellular models. *Environmental Toxicology*, **2014**, 29, 328-36	4.2	14
25	Effect of the anthocyanic epidermal layer on Photosystem II and I energy dissipation processes in Tradescantia pallida (Rose) Hunt. *Acta Physiologiae Plantarum*, **2013**, 35, 463-472	2.6	7
24	Evaluation of toxicity and oxidative stress induced by copper oxide nanoparticles in the green alga Chlamydomonas reinhardtii. *Aquatic Toxicology*, **2013**, 142-143, 431-40	5.1	176
23	Okadaic acid inhibits cell growth and photosynthetic electron transport in the alga Dunaliella tertiolecta. *Science of the Total Environment*, **2012**, 414, 198-204	10.2	11
22	Interactive effects of temperature and copper on photosystem II photochemistry in Chlorella vulgaris. *Journal of Photochemistry and Photobiology B: Biology*, **2012**, 110, 9-14	6.7	19
21	Carotenoid production and change of photosynthetic functions in Scenedesmus sp. exposed to nitrogen limitation and acetate treatment. *Journal of Applied Phycology*, **2012**, 24, 117-124	3.2	34
20	Interaction of gold nanoglycodendrimers with algal cells (Chlamydomonas reinhardtii) and their effect on physiological processes. *Nanotoxicology*, **2012**, 6, 109-20	5.3	54
19	Inhibitory effects of silver nanoparticles in two green algae, Chlorella vulgaris and Dunaliella tertiolecta. *Ecotoxicology and Environmental Safety*, **2012**, 78, 80-5	7	252
18	Long-term stress induced by nitrate deficiency, sodium chloride, and high light on photosystem II activity and carotenogenesis of green alga Scenedesmus sp.. *Botany*, **2012**, 90, 1007-1014	1.3	4
17	Genotoxic effects of copper oxide nanoparticles in Neuro 2A cell cultures. *Science of the Total Environment*, **2012**, 441, 117-24	10.2	72
16	Temperature influence on silver nanoparticles inhibitory effect on photosystem II photochemistry in two green algae, Chlorella vulgaris and Dunaliella tertiolecta. *Environmental Science and Pollution Research*, **2012**, 19, 1755-62	5.1	57
15	Polymer coating of copper oxide nanoparticles increases nanoparticles uptake and toxicity in the green alga Chlamydomonas reinhardtii. *Chemosphere*, **2012**, 87, 1388-94	8.4	132
14	Induction to oxidative stress by saxitoxin investigated through lipid peroxidation in Neuro 2A cells and Chlamydomonas reinhardtii alga. *Chemosphere*, **2012**, 89, 38-43	8.4	45
13	Alteration of photosystem II activity by atrazine on Chlamydomonas reinhardtii synchronized and asynchronized cell cycle cultures. *Toxicological and Environmental Chemistry*, **2012**, 94, 906-917	1.4	5

12	Investigation of animal and algal bioassays for reliable saxitoxin ecotoxicity and cytotoxicity risk evaluation. *Ecotoxicology and Environmental Safety*, **2011**, 74, 1021-6	7	33
11	Effect of cadmium on photosystem II activity in Chlamydomonas reinhardtii: alteration of O-J-I-P fluorescence transients indicating the change of apparent activation energies within photosystem II. *Photosynthesis Research*, **2011**, 107, 151-7	3.7	29
10	Evaluation of Copper Oxide Nanoparticles Toxicity Using Chlorophyll a Fluorescence Imaging in Lemna gibba. *Journal of Botany*, **2010**, 2010, 1-9	0	40
9	Effect of core-shell copper oxide nanoparticles on cell culture morphology and photosynthesis (photosystem II energy distribution) in the green alga, Chlamydomonas reinhardtii. *Aquatic Toxicology*, **2010**, 96, 109-14	5.1	158
8	The bacterial community of tomato rhizosphere is modified by inoculation with arbuscular mycorrhizal fungi but unaffected by soil enrichment with mycorrhizal root exudates or inoculation with Phytophthora nicotianae. *Soil Biology and Biochemistry*, **2010**, 42, 473-483	7.5	53
7	Effect of aluminum on cellular division and photosynthetic electron transport in Euglena gracilis and Chlamydomonas acidophila. *Environmental Toxicology and Chemistry*, **2010**, 29, 887-92	3.8	19
6	Dichromate effect on energy dissipation of photosystem II and photosystem I in Chlamydomonas reinhardtii. *Journal of Photochemistry and Photobiology B: Biology*, **2009**, 96, 24-9	6.7	32
5	Effect of dichromate on photosystem II activity in xanthophyll-deficient mutants of Chlamydomonas reinhardtii. *Photosynthesis Research*, **2008**, 95, 45-53	3.7	19
4	Alteration of O-J-I-P Chlorophyll Induction Kinetics by Dichromate: An Effect on the Water-Splitting System **2008**, 661-665		1
3	Rapid chlorophyll a fluorescence transient of Lemna gibba leaf as an indication of light and hydroxylamine effect on photosystem II activity. *Photochemical and Photobiological Sciences*, **2007**, 6, 532-8	4.2	11
2	Copper/Silver Bimetallic Nanoparticles Supported on Aluminosilicate Geomaterials as Antibacterial Agents. *ACS Applied Nano Materials*,	5.6	5
1	Bursting out: linking changes in nano-topography and biomechanical properties of biofilm-forming Escherichia coli to T4 lytic cycle		1