

# Francois Perreault

## List of Publications by Year in descending order

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84  
papers

7,465  
citations

101384

36  
h-index

58464

82  
g-index

87  
all docs

87  
docs citations

87  
times ranked

10465  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental applications of graphene-based nanomaterials. <i>Chemical Society Reviews</i> , 2015, 44, 5861-5896.	18.7	1,236
2	Antimicrobial Properties of Graphene Oxide Nanosheets: Why Size Matters. <i>ACS Nano</i> , 2015, 9, 7226-7236.	7.3	806
3	Thin-Film Composite Polyamide Membranes Functionalized with Biocidal Graphene Oxide Nanosheets. <i>Environmental Science and Technology Letters</i> , 2014, 1, 71-76.	3.9	460
4	The role of nanotechnology in tackling global water challenges. <i>Nature Sustainability</i> , 2018, 1, 166-175.	11.5	377
5	Adsorption of organic contaminants by graphene nanosheets: A review. <i>Water Research</i> , 2017, 126, 385-398.	5.3	354
6	Inhibitory effects of silver nanoparticles in two green algae, <i>Chlorella vulgaris</i> and <i>Dunaliella tertiolecta</i> . <i>Ecotoxicology and Environmental Safety</i> , 2012, 78, 80-85.	2.9	307
7	Antimicrobial Electrospun Biopolymer Nanofiber Mats Functionalized with Graphene Oxide/Silver Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12751-12759.	4.0	256
8	Evaluation of toxicity and oxidative stress induced by copper oxide nanoparticles in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Aquatic Toxicology</i> , 2013, 142-143, 431-440.	1.9	220
9	Controlled Architecture of Dual-Functional Block Copolymer Brushes on Thin-Film Composite Membranes for Integrated "Defending" and "Attacking" Strategies against Biofouling. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23069-23079.	4.0	216
10	Effect of core-shell copper oxide nanoparticles on cell culture morphology and photosynthesis (photosystem II energy distribution) in the green alga, <i>Chlamydomonas reinhardtii</i> . <i>Aquatic Toxicology</i> , 2010, 96, 109-114.	1.9	184
11	Thin-film composite forward osmosis membranes functionalized with graphene oxide/silver nanocomposites for biofouling control. <i>Journal of Membrane Science</i> , 2017, 525, 146-156.	4.1	180
12	Interaction of Graphene Oxide with Bacterial Cell Membranes: Insights from Force Spectroscopy. <i>Environmental Science and Technology Letters</i> , 2015, 2, 112-117.	3.9	164
13	Biofouling Mitigation in Forward Osmosis Using Graphene Oxide Functionalized Thin-Film Composite Membranes. <i>Environmental Science &amp; Technology</i> , 2016, 50, 5840-5848.	4.6	160
14	Polymer coating of copper oxide nanoparticles increases nanoparticles uptake and toxicity in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Chemosphere</i> , 2012, 87, 1388-1394.	4.2	157
15	Effect of soluble copper released from copper oxide nanoparticles solubilisation on growth and photosynthetic processes of <i>Lemna gibba</i> . <i>Nanotoxicology</i> , 2014, 8, 374-382.	1.6	129
16	Different toxicity mechanisms between bare and polymer-coated copper oxide nanoparticles in <i>Lemna gibba</i> . <i>Environmental Pollution</i> , 2014, 185, 219-227.	3.7	115
17	Aging of microplastics increases their adsorption affinity towards organic contaminants. <i>Chemosphere</i> , 2022, 298, 134238.	4.2	112
18	Genotoxic effects of copper oxide nanoparticles in Neuro 2A cell cultures. <i>Science of the Total Environment</i> , 2012, 441, 117-124.	3.9	108

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19	Shape-Dependent Surface Reactivity and Antimicrobial Activity of Nano-Cupric Oxide. <i>Environmental Science &amp; Technology</i> , 2016, 50, 3975-3984.	4.6	96
20	Post-fabrication modification of electrospun nanofiber mats with polymer coating for membrane distillation applications. <i>Journal of Membrane Science</i> , 2017, 530, 158-165.	4.1	91
21	Photocatalytic treatment of natural waters. Reality or hype? The case of cyanotoxins remediation. <i>Water Research</i> , 2021, 188, 116543.	5.3	88
22	Polyamide thin-film nanocomposite membranes with graphene oxide nanosheets: Balancing membrane performance and fouling propensity. <i>Desalination</i> , 2019, 451, 139-147.	4.0	85
23	Effect of chromium oxide (III) nanoparticles on the production of reactive oxygen species and photosystem II activity in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Science of the Total Environment</i> , 2016, 565, 951-960.	3.9	78
24	Impaired Performance of Pressure-Retarded Osmosis due to Irreversible Biofouling. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13050-13058.	4.6	75
25	Temperature influence on silver nanoparticles inhibitory effect on photosystem II photochemistry in two green algae, <i>Chlorella vulgaris</i> and <i>Dunaliella tertiolecta</i> . <i>Environmental Science and Pollution Research</i> , 2012, 19, 1755-1762.	2.7	72
26	Interaction of gold nanoglycodendrimers with algal cells ( <i>Chlamydomonas reinhardtii</i> ) and their effect on physiological processes. <i>Nanotoxicology</i> , 2012, 6, 109-120.	1.6	70
27	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 <i>Phytophthora nicotianae</i> . <i>Soil Biology and Biochemistry</i> , 2010, 42, 473-483.	4.2	67
28	Effect of cadmium accumulation on green algae <i>Chlamydomonas reinhardtii</i> and acid-tolerant <i>Chlamydomonas</i> CPCC 121. <i>Chemosphere</i> , 2018, 191, 174-182.	4.2	64
29	Induction to oxidative stress by saxitoxin investigated through lipid peroxidation in Neuro 2A cells and <i>Chlamydomonas reinhardtii</i> alga. <i>Chemosphere</i> , 2012, 89, 38-43.	4.2	54
30	Urea recovery from fresh human urine by forward osmosis and membrane distillation (FO&MD). <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1993-2003.	1.2	45
31	Scaling Resistance in Nanophotonics-Enabled Solar Membrane Distillation. <i>Environmental Science &amp; Technology</i> , 2020, 54, 2548-2555.	4.6	45
32	Evaluation of Copper Oxide Nanoparticles Toxicity Using Chlorophyll $\alpha$ Fluorescence Imaging in <i>Lemna gibba</i> . <i>Journal of Botany</i> , 2010, 2010, 1-9.	1.2	44
33	Carotenoid production and change of photosynthetic functions in <i>Scenedesmus</i> sp. exposed to nitrogen limitation and acetate treatment. <i>Journal of Applied Phycology</i> , 2012, 24, 117-124.	1.5	43
34	Elucidating the Role of Oxidative Debris in the Antimicrobial Properties of Graphene Oxide. <i>ACS Applied Nano Materials</i> , 2018, 1, 1164-1174.	2.4	42
35	Investigation of animal and algal bioassays for reliable saxitoxin ecotoxicity and cytotoxicity risk evaluation. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 1021-1026.	2.9	39
36	Structure&Property&Toxicity Relationships of Graphene Oxide: Role of Surface Chemistry on the Mechanisms of Interaction with Bacteria. <i>Environmental Science &amp; Technology</i> , 2019, 53, 14679-14687.	4.6	37

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37	Portable point-of-use photoelectrocatalytic device provides rapid water disinfection. <i>Science of the Total Environment</i> , 2020, 737, 140044.	3.9	37
38	Rejection of nitrogen species in real fresh and hydrolyzed human urine by reverse osmosis and nanofiltration. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103993.	3.3	36
39	Dichromate effect on energy dissipation of photosystem II and photosystem I in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2009, 96, 24-29.	1.7	35
40	Four release tests exhibit variable silver stability from nanoparticle-modified reverse osmosis membranes. <i>Water Research</i> , 2018, 143, 77-86.	5.3	34
41	Effect of cadmium on photosystem II activity in <i>Chlamydomonas reinhardtii</i> : alteration of O <sub>2</sub> fluorescence transients indicating the change of apparent activation energies within photosystem II. <i>Photosynthesis Research</i> , 2011, 107, 151-157.	1.6	33
42	Pore wetting in membrane distillation treatment of municipal wastewater desalination brine and its mitigation by foam fractionation. <i>Chemosphere</i> , 2020, 257, 127214.	4.2	32
43	Electrochemical self-cleaning anodic surfaces for biofouling control during water treatment. <i>Electrochemistry Communications</i> , 2018, 96, 83-87.	2.3	31
44	Ammonia Recovery from Hydrolyzed Human Urine by Forward Osmosis with Acidified Draw Solution. <i>Environmental Science &amp; Technology</i> , 2020, 54, 11556-11565.	4.6	30
45	Similar toxicity mechanisms between graphene oxide and oxidized multi-walled carbon nanotubes in <i>Microcystis aeruginosa</i> . <i>Chemosphere</i> , 2021, 265, 129137.	4.2	29
46	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. <i>Water Research</i> , 2020, 184, 116134.	5.3	28
47	Freestanding self-assembled sulfonated pentablock terpolymer membranes for high flux pervaporation desalination. <i>Journal of Membrane Science</i> , 2020, 613, 118460.	4.1	28
48	Development of anti-biofouling feed spacers to improve performance of reverse osmosis modules. <i>Water Research</i> , 2018, 145, 599-607.	5.3	27
49	Interactive effects of temperature and copper on photosystem II photochemistry in <i>Chlorella vulgaris</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 110, 9-14.	1.7	25
50	Facile Surface Modification of Polyamide Membranes Using UV-Photooxidation Improves Permeability and Reduces Natural Organic Matter Fouling. <i>Environmental Science &amp; Technology</i> , 2021, 55, 6984-6994.	4.6	25
51	Removal of Bromide from Surface Water: Comparison Between Silver-Impregnated Graphene Oxide and Silver-Impregnated Powdered Activated Carbon. <i>Environmental Engineering Science</i> , 2018, 35, 988-995.	0.8	22
52	Graphene/polymer nanocomposite degradation by ultraviolet light: The effects of graphene nanofillers and their potential for release. <i>Polymer Degradation and Stability</i> , 2020, 182, 109365.	2.7	22
53	Effect of aluminum on cellular division and photosynthetic electron transport in <i>Euglena gracilis</i> and <i>Chlamydomonas acidophila</i> . <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 887-892.	2.2	20
54	Copper/Silver Bimetallic Nanoparticles Supported on Aluminosilicate Geomaterials as Antibacterial Agents. <i>ACS Applied Nano Materials</i> , 2022, 5, 1472-1483.	2.4	20

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55	Effect of dichromate on photosystem II activity in xanthophyll-deficient mutants of <i>Chlamydomonas reinhardtii</i> . <i>Photosynthesis Research</i> , 2007, 95, 45-53.	1.6	19
56	Physisorption and chemisorption of T4 bacteriophages on amino functionalized silica particles. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 68-76.	5.0	19
57	Toxicity of pamam-coated gold nanoparticles in different unicellular models. <i>Environmental Toxicology</i> , 2014, 29, 328-336.	2.1	18
58	Adsorption of organic pollutants by microplastics: Overview of a dissonant literature. <i>Journal of Hazardous Materials Advances</i> , 2022, 6, 100091.	1.2	18
59	Fines adsorption on nanoparticle-coated surface. <i>Acta Geotechnica</i> , 2018, 13, 219-226.	2.9	16
60	Comparative assessment of acute and chronic ecotoxicity of water soluble fractions of diesel and biodiesel on <i>Daphnia magna</i> and <i>Aliivibrio fischeri</i> . <i>Chemosphere</i> , 2019, 221, 640-646.	4.2	16
61	Removal of Particulate Contamination from Solid Surfaces Using Polymeric Micropillars. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 16967-16978.	4.0	15
62	Okadaic acid inhibits cell growth and photosynthetic electron transport in the alga <i>Dunaliella tertiolecta</i> . <i>Science of the Total Environment</i> , 2012, 414, 198-204.	3.9	14
63	Doing nano-enabled water treatment right: sustainability considerations from design and research through development and implementation. <i>Environmental Science: Nano</i> , 2020, 7, 3255-3278.	2.2	13
64	Germicidal glowsticks: Side-emitting optical fibers inhibit <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> on surfaces. <i>Water Research</i> , 2020, 184, 116191.	5.3	13
65	Rapid chlorophyll a fluorescence transient of <i>Lemna gibba</i> leaf as an indication of light and hydroxylamine effect on photosystem II activity. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 532.	1.6	12
66	Electrochemically-active carbon nanotube coatings for biofouling mitigation: Cleaning kinetics and energy consumption for cathodic and anodic regimes. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 391-397.	5.0	9
67	Effect of the anthocyanic epidermal layer on Photosystem II and I energy dissipation processes in <i>Tradescantia pallida</i> (Rose) Hunt. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 463-472.	1.0	8
68	All Dry Bottomâ€”Up Assembly of Omniphobic Interfaces. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902159.	1.9	8
69	Nanoparticle-templated polyamide membranes for improved biofouling resistance. <i>Environmental Science: Nano</i> , 2021, 8, 565-579.	2.2	8
70	Interfacial tension and contact angle in CO <sub>2</sub> -water/nanofluidâ€”quartz system. , 2018, 8, 734-746.		7
71	Comparing membrane and spacer biofouling by Gram-negative <i>Pseudomonas aeruginosa</i> and Gram-positive <i>Anoxybacillus</i> sp. in forward osmosis. <i>Biofouling</i> , 2019, 35, 104-116.	0.8	7
72	Living Filtration Membranes Demonstrate Antibiofouling Properties. <i>ACS ES&amp;T Water</i> , 2022, 2, 1-9.	2.3	7

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73	Long-term stress induced by nitrate deficiency, sodium chloride, and high light on photosystem II activity and carotenogenesis of green alga <i>Scenedesmus</i> sp.. <i>Botany</i> , 2012, 90, 1007-1014.	0.5	6
74	Prolonging the antibacterial activity of nanosilver-coated membranes through partial sulfidation. <i>Environmental Science: Nano</i> , 2020, 7, 2607-2617.	2.2	6
75	Alteration of photosystem II activity by atrazine on <i>Chlamydomonas reinhardtii</i> synchronized and asynchronized cell cycle cultures. <i>Toxicological and Environmental Chemistry</i> , 2012, 94, 906-917.	0.6	5
76	Ammonia recovery and fouling mitigation of hydrolyzed human urine treated by nanofiltration and reverse osmosis. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 429-442.	1.2	5
77	Bromide and Other Halide Ion Removal From Drinking Waters Using Silver-Amended Coagulation. <i>Journal - American Water Works Association</i> , 2018, 110, 13-24.	0.2	4
78	Linear solvation energy relationship development for adsorption of synthetic organic compounds by carbon nanomaterials: an overview of the last decade. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2949-2957.	1.2	4
79	A Polysulfone/Cobalt Metal-Organic Framework Nanocomposite Membrane with Enhanced Water Permeability and Fouling Resistance. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3532-3542.	2.0	4
80	Controlling silver release from antibacterial surface coatings on stainless steel for biofouling control. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 216, 112562.	2.5	4
81	Bursting out: linking changes in nanotopography and biomechanical properties of biofilm-forming <i>Escherichia coli</i> to the T4 lytic cycle. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 26.	2.9	2
82	Emerging investigator series: a multispecies analysis of the relationship between oxygen content and toxicity in graphene oxide. <i>Environmental Science: Nano</i> , 2021, 8, 1543-1559.	2.2	1
83	Alteration of O-J-I-P Chlorophyll Induction Kinetics by Dichromate: An Effect on the Water-Splitting System. , 2008, , 661-665.		1
84	Antimicrobial Properties of Graphene Nanomaterials: Mechanisms and Applications. <i>Carbon Nanostructures</i> , 2016, , 287-322.	0.1	0