

Francois Perreault

List of Publications by Citations

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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	Environmental applications of graphene-based nanomaterials. <i>Chemical Society Reviews</i> , 2015 , 44, 5861-98	38.5	1022
82	Antimicrobial Properties of Graphene Oxide Nanosheets: Why Size Matters. <i>ACS Nano</i> , 2015 , 9, 7226-36	16.7	620
81	Thin-Film Composite Polyamide Membranes Functionalized with Biocidal Graphene Oxide Nanosheets. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 71-76	11	396
80	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, 80-5	7	252
79	Adsorption of organic contaminants by graphene nanosheets: A review. <i>Water Research</i> , 2017 , 126, 385-398	12.8	251
78	The role of nanotechnology in tackling global water challenges. <i>Nature Sustainability</i> , 2018 , 1, 166-175	22.1	241
77	Antimicrobial Electrospun Biopolymer Nanofiber Mats Functionalized with Graphene Oxide-Silver Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12751-9	9.5	213
76	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, 431-40	5.1	176
75	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 & Interfaces</i> , 2015 , 7, 23069-79	9.5	168
74	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, 109-14	5.1	158
73	Biofouling Mitigation in Forward Osmosis Using Graphene Oxide Functionalized Thin-Film Composite Membranes. <i>Environmental Science & Technology</i> , 2016 , 50, 5840-8	10.3	141
72	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	9.6	137
71	Interaction of Graphene Oxide with Bacterial Cell Membranes: Insights from Force Spectroscopy. <i>Environmental Science and Technology Letters</i> , 2015 , 2, 112-117	11	135
70	Polymer coating of copper oxide nanoparticles increases nanoparticles uptake and toxicity in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Chemosphere</i> , 2012 , 87, 1388-94	8.4	132
69	Effect of soluble copper released from copper oxide nanoparticles solubilisation on growth and photosynthetic processes of <i>Lemna gibba</i> L. <i>Nanotoxicology</i> , 2014 , 8, 374-82	5.3	103
68	Different toxicity mechanisms between bare and polymer-coated copper oxide nanoparticles in <i>Lemna gibba</i> . <i>Environmental Pollution</i> , 2014 , 185, 219-27	9.3	100
67	Shape-Dependent Surface Reactivity and Antimicrobial Activity of Nano-Cupric Oxide. <i>Environmental Science & Technology</i> , 2016 , 50, 3975-84	10.3	78

66	Genotoxic effects of copper oxide nanoparticles in Neuro 2A cell cultures. <i>Science of the Total Environment</i> , 2012 , 441, 117-24	10.2	72
65	Post-fabrication modification of electrospun nanofiber mats with polymer coating for membrane distillation applications. <i>Journal of Membrane Science</i> , 2017 , 530, 158-165	9.6	70
64	Impaired Performance of Pressure-Retarded Osmosis due to Irreversible Biofouling. <i>Environmental Science & Technology</i> , 2015 , 49, 13050-8	10.3	64
63	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, 1755-62	5.1	57
62	Interaction of gold nanoglycodendrimers with algal cells (<i>Chlamydomonas reinhardtii</i>) and their effect on physiological processes. <i>Nanotoxicology</i> , 2012 , 6, 109-20	5.3	54
61	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	7.5	53
60	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	10.2	52
59	Polyamide thin-film nanocomposite membranes with graphene oxide nanosheets: Balancing membrane performance and fouling propensity. <i>Desalination</i> , 2019 , 451, 139-147	10.3	50
58	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	8.4	45
57	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	8.4	42
56	Evaluation of Copper Oxide Nanoparticles Toxicity Using Chlorophyll a Fluorescence Imaging in <i>Lemna gibba</i> . <i>Journal of Botany</i> , 2010 , 2010, 1-9	0	40
55	Photocatalytic treatment of natural waters. Reality or hype? The case of cyanotoxins remediation. <i>Water Research</i> , 2021 , 188, 116543	12.5	35
54	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	3.2	34
53	Investigation of animal and algal bioassays for reliable saxitoxin ecotoxicity and cytotoxicity risk evaluation. <i>Ecotoxicology and Environmental Safety</i> , 2011 , 74, 1021-6	7	33
52	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, 24-9	6.7	32
51	Effect of cadmium on photosystem II activity in <i>Chlamydomonas reinhardtii</i> : alteration of O-J-I-P fluorescence transients indicating the change of apparent activation energies within photosystem II. <i>Photosynthesis Research</i> , 2011 , 107, 151-7	3.7	29
50	Urea recovery from fresh human urine by forward osmosis and membrane distillation (FOMD). <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 1993-2003	4.2	26
49	Elucidating the Role of Oxidative Debris in the Antimicrobial Properties of Graphene Oxide. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1164-1174	5.6	25

48	Electrochemical self-cleaning anodic surfaces for biofouling control during water treatment. <i>Electrochemistry Communications</i> , 2018 , 96, 83-87	5.1	24
47	Portable point-of-use photoelectrocatalytic device provides rapid water disinfection. <i>Science of the Total Environment</i> , 2020 , 737, 140044	10.2	21
46	Four release tests exhibit variable silver stability from nanoparticle-modified reverse osmosis membranes. <i>Water Research</i> , 2018 , 143, 77-86	12.5	21
45	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	6.8	20
44	Structure-Property-Toxicity Relationships of Graphene Oxide: Role of Surface Chemistry on the Mechanisms of Interaction with Bacteria. <i>Environmental Science & Technology</i> , 2019 , 53, 14679-14687	10.3	19
43	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	6.7	19
42	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, 887-92	3.8	19
41	Effect of dichromate on photosystem II activity in xanthophyll-deficient mutants of <i>Chlamydomonas reinhardtii</i> . <i>Photosynthesis Research</i> , 2008 , 95, 45-53	3.7	19
40	Pore wetting in membrane distillation treatment of municipal wastewater desalination brine and its mitigation by foam fractionation. <i>Chemosphere</i> , 2020 , 257, 127214	8.4	18
39	Scaling Resistance in Nanophotonics-Enabled Solar Membrane Distillation. <i>Environmental Science & Technology</i> , 2020 , 54, 2548-2555	10.3	18
38	Development of anti-biofouling feed spacers to improve performance of reverse osmosis modules. <i>Water Research</i> , 2018 , 145, 599-607	12.5	17
37	Fines adsorption on nanoparticle-coated surface. <i>Acta Geotechnica</i> , 2018 , 13, 219-226	4.9	16
36	Toxicity of PAMAM-coated gold nanoparticles in different unicellular models. <i>Environmental Toxicology</i> , 2014 , 29, 328-36	4.2	14
35	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	12.5	13
34	Ammonia Recovery from Hydrolyzed Human Urine by Forward Osmosis with Acidified Draw Solution. <i>Environmental Science & Technology</i> , 2020 , 54, 11556-11565	10.3	13
33	Physisorption and chemisorption of T4 bacteriophages on amino functionalized silica particles. <i>Journal of Colloid and Interface Science</i> , 2018 , 532, 68-76	9.3	12
32	Freestanding self-assembled sulfonated pentablock terpolymer membranes for high flux pervaporation desalination. <i>Journal of Membrane Science</i> , 2020 , 613, 118460	9.6	11
31	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	2	11

30	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	10.2	11
29	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, 532-8	4.2	11
28	Removal of Particulate Contamination from Solid Surfaces Using Polymeric Micropillars. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16967-78	9.5	11
27	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	8.4	11
26	Similar toxicity mechanisms between graphene oxide and oxidized multi-walled carbon nanotubes in <i>Microcystis aeruginosa</i> . <i>Chemosphere</i> , 2021 , 265, 129137	8.4	11
25	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	4.7	10
24	Aging of microplastics increases their adsorption affinity towards organic contaminants.. <i>Chemosphere</i> , 2022 , 298, 134238	8.4	8
23	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	2.6	7
22	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	3.3	5
21	All Dry Bottom-Up Assembly of Omniphobic Interfaces. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902159	4.6	5
20	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	1.4	5
19	Copper/Silver Bimetallic Nanoparticles Supported on Aluminosilicate Geomaterials as Antibacterial Agents. <i>ACS Applied Nano Materials</i> ,	5.6	5
18	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	7.1	5
17	Interfacial tension and contact angle in CO ₂ -water/nanofluid-quartz system 2018 , 8, 734-746		5
16	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	1.3	4
15	Nanoparticle-templated polyamide membranes for improved biofouling resistance. <i>Environmental Science: Nano</i> , 2021 , 8, 565-579	7.1	4
14	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	9.3	4
13	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	12.5	3

12	Prolonging the antibacterial activity of nanosilver-coated membranes through partial sulfidation. <i>Environmental Science: Nano</i> , 2020 , 7, 2607-2617	7.1	2
11	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	4.2	2
10	Facile Surface Modification of Polyamide Membranes Using UV-Photooxidation Improves Permeability and Reduces Natural Organic Matter Fouling. <i>Environmental Science & Technology</i> , 2021 , 55, 6984-6994	10.3	2
9	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	8.2	2
8	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	4.2	1
7	Bursting out: linking changes in nano-topography and biomechanical properties of biofilm-forming <i>Escherichia coli</i> to T4 lytic cycle		1
6	Bromide and Other Halide Ion Removal From Drinking Waters Using Silver-Amended Coagulation. <i>Journal - American Water Works Association</i> , 2018 , 110, 13-24	0.5	1
5	Alteration of O-J-I-P Chlorophyll Induction Kinetics by Dichromate: An Effect on the Water-Splitting System 2008 , 661-665		1
4	Controlling silver release from antibacterial surface coatings on stainless steel for biofouling control. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 112562	6	0
3	Adsorption of organic pollutants by microplastics: Overview of a dissonant literature. <i>Journal of Hazardous Materials Advances</i> , 2022 , 6, 100091		0
2	Antimicrobial Properties of Graphene Nanomaterials: Mechanisms and Applications. <i>Carbon Nanostructures</i> , 2016 , 287-322	0.6	
1	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	7.1	