

Philippe Juneau

List of Publications by Year in descending order

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94
papers

3,920
citations

109137

35
h-index

138251

58
g-index

96
all docs

96
docs citations

96
times ranked

4645
citing authors

#	ARTICLE	IF	CITATIONS
1	Alteration of plant physiology by glyphosate and its by-product aminomethylphosphonic acid: an overview. <i>Journal of Experimental Botany</i> , 2014, 65, 4691-4703.	2.4	239
2	Resolution of the Photosystem I and Photosystem II contributions to chlorophyll fluorescence of intact leaves at room temperature. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1556, 239-246.	0.5	177
3	Toxic effects and bioaccumulation of carbamazepine evaluated by biomarkers measured in organisms of different trophic levels. <i>Chemosphere</i> , 2010, 80, 1062-1068.	4.2	155
4	PAM Fluorometry in the Determination of the Sensitivity of <i>Chlorella vulgaris</i> , <i>Selenastrum capricornutum</i> , and <i>Chlamydomonas reinhardtii</i> to Copper. <i>Archives of Environmental Contamination and Toxicology</i> , 2002, 42, 155-164.	2.1	142
5	Differential effects of glyphosate and aminomethylphosphonic acid (AMPA) on photosynthesis and chlorophyll metabolism in willow plants. <i>Pesticide Biochemistry and Physiology</i> , 2016, 130, 65-70.	1.6	135
6	COMPARISON OF Cd, Cu, AND Zn TOXIC EFFECTS ON FOUR MARINE PHYTOPLANKTON BY PULSE-AMPLITUDE-MODULATED FLUOROMETRY. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 2603.	2.2	133
7	Algal fluorescence sensor integrated into a microfluidic chip for water pollutant detection. <i>Lab on A Chip</i> , 2012, 12, 787-793.	3.1	111
8	Electron transport chains in organohalide-respiring bacteria and bioremediation implications. <i>Biotechnology Advances</i> , 2018, 36, 1194-1206.	6.0	108
9	Glyphosate-Dependent Inhibition of Photosynthesis in Willow. <i>Frontiers in Plant Science</i> , 2017, 8, 207.	1.7	99
10	Evaluation of different algal species sensitivity to mercury and metolachlor by PAM-fluorometry. <i>Chemosphere</i> , 2001, 45, 589-598.	4.2	98
11	Growth and photosynthetic responses of the bloom-forming cyanobacterium <i>Microcystis aeruginosa</i> to elevated levels of cadmium. <i>Chemosphere</i> , 2006, 65, 1738-1746.	4.2	93
12	Effect of endocrine disrupters on photosystem II energy fluxes of green algae and cyanobacteria. <i>Environmental Research</i> , 2011, 111, 520-529.	3.7	92
13	Oxidative stress in duckweed (<i>Lemna minor</i> L.) induced by glyphosate: Is the mitochondrial electron transport chain a target of this herbicide?. <i>Environmental Pollution</i> , 2016, 218, 402-409.	3.7	90
14	Temperature-dependent sensitivity of growth and photosynthesis of <i>Scenedesmus obliquus</i> , <i>Navicula pelliculosa</i> and two strains of <i>Microcystis aeruginosa</i> to the herbicide atrazine. <i>Aquatic Toxicology</i> , 2011, 103, 9-17.	1.9	88
15	Simulation of Pulse-Amplitude-Modulated (PAM) fluorescence: Limitations of some PAM-parameters in studying environmental stress effects. <i>Photosynthetica</i> , 2005, 43, 75-83.	0.9	86
16	Use of chlorophyll fluorescence as a tool for determination of herbicide toxic effect: Review. <i>Toxicological and Environmental Chemistry</i> , 2007, 89, 609-625.	0.6	70
17	Effects of three pesticides on the growth, photosynthesis and photoinhibition of the edible cyanobacterium <i>Ge-Xian-Mi</i> (<i>Nostoc</i>). <i>Aquatic Toxicology</i> , 2007, 81, 256-265.	1.9	67
18	Effects of low concentrations of glyphosate-based herbicide factor 540® on an agricultural stream freshwater phytoplankton community. <i>Chemosphere</i> , 2018, 192, 133-141.	4.2	67

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19	Impacts of agriculture on the parasite communities of northern leopard frogs (<i>Rana pipiens</i>) in southern Quebec, Canada. <i>Parasitology</i> , 2007, 134, 2063-2080.	0.7	65
20	Host development overwhelms environmental dispersal in governing the ecological succession of zebrafish gut microbiota. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 5.	2.9	64
21	Development of a lab-on-chip electrochemical biosensor for water quality analysis based on microalgal photosynthesis. <i>Biosensors and Bioelectronics</i> , 2016, 79, 568-573.	5.3	61
22	Impact of phosphate on glyphosate uptake and toxicity in willow. <i>Journal of Hazardous Materials</i> , 2016, 304, 269-279.	6.5	58
23	Title is missing!. <i>Ecotoxicology</i> , 1999, 8, 449-455.	1.1	56
24	Mechanistic insights into organic carbon-driven water blackening and odorization of urban rivers. <i>Journal of Hazardous Materials</i> , 2021, 405, 124663.	6.5	56
25	Differential sensitivity of five cyanobacterial strains to ammonium toxicity and its inhibitory mechanism on the photosynthesis of rice-field cyanobacterium <i>Gelebrum Xianmi</i> (Nostoc). <i>Aquatic Toxicology</i> , 2008, 89, 113-121.	1.9	53
26	Effects of viral infection on photosynthetic processes in the bloom-forming alga <i>Heterosigma akashiwo</i> . <i>Aquatic Microbial Ecology</i> , 2003, 31, 9-17.	0.9	48
27	Relationship between photosynthetic processes and microcystin in <i>Microcystis aeruginosa</i> grown under different photon irradiances. <i>Harmful Algae</i> , 2010, 9, 18-24.	2.2	47
28	Integrated electrochemical biosensor based on algal metabolism for water toxicity analysis. <i>Biosensors and Bioelectronics</i> , 2014, 61, 290-297.	5.3	46
29	Effects of glyphosate acid and the glyphosate-commercial formulation (Roundup) on <i>Dimorphandra wilsonii</i> seed germination: Interference of seed respiratory metabolism. <i>Environmental Pollution</i> , 2017, 220, 452-459.	3.7	45
30	Individual and combined effects of amoxicillin, enrofloxacin, and oxytetracycline on <i>Lemna minor</i> physiology. <i>Ecotoxicology and Environmental Safety</i> , 2020, 203, 111025.	2.9	44
31	Coexistence between antibiotic resistance genes and metal resistance genes in manure-fertilized soils. <i>Geoderma</i> , 2021, 382, 114760.	2.3	38
32	Combined effect of high light and high salinity on the regulation of photosynthesis in three diatom species belonging to the main growth forms of intertidal flat inhabiting microphytobenthos. <i>Journal of Experimental Marine Biology and Ecology</i> , 2015, 463, 95-104.	0.7	37
33	Temperature and Light Modulation of Herbicide Toxicity on Algal and Cyanobacterial Physiology. <i>Frontiers in Environmental Science</i> , 2017, 5, .	1.5	37
34	Enrofloxacin and Roundup® interactive effects on the aquatic macrophyte <i>Elodea canadensis</i> physiology. <i>Environmental Pollution</i> , 2019, 249, 453-462.	3.7	37
35	Phytoplankton processes during a mesoscale iron enrichment in the NE subarctic Pacific: Part II – Nutrient utilization. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 2114-2130.	0.6	36
36	Comparative studies on the photosynthetic responses of three freshwater phytoplankton species to temperature and light regimes. <i>Journal of Applied Phycology</i> , 2012, 24, 1113-1122.	1.5	36

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37	Use of chlorophyll a fluorescence to detect the effect of microcystins on photosynthesis and photosystem II energy fluxes of green algae. <i>Toxicon</i> , 2012, 59, 567-577.	0.8	36
38	Aquatic Macrophytes in Constructed Wetlands: A Fight against Water Pollution. <i>Sustainability</i> , 2020, 12, 9202.	1.6	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	Comparison of Photoacclimation in Twelve Freshwater Photoautotrophs (Chlorophyte, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (B e57139.	1.1	34
41	Effect of cadmium on photosystem II activity in <i>Chlamydomonas reinhardtii</i> : alteration of Oâ€ˆ“Jâ€ˆ“lâ€ˆ“P fluorescence transients indicating the change of apparent activation energies within photosystem II. <i>Photosynthesis Research</i> , 2011, 107, 151-157.	1.6	33
42	Response to variable light intensity in photoacclimated algae and cyanobacteria exposed to atrazine. <i>Aquatic Toxicology</i> , 2013, 126, 77-84.	1.9	33
43	Phytoplankton growth and PSII efficiency sensitivity to a glyphosate-based herbicide (Factor 540Â®). <i>Aquatic Toxicology</i> , 2017, 192, 265-273.	1.9	33
44	Different physiological and photosynthetic responses of three cyanobacterial strains to light and zinc. <i>Aquatic Toxicology</i> , 2016, 170, 251-258.	1.9	32
45	Assessment of toxic effects of pesticide extracts on different green algal species by using chlorophyll fluorescence. <i>Toxicological and Environmental Chemistry</i> , 2009, 91, 1315-1329.	0.6	31
46	Herbaceous or <i>Salix miyabeana</i> â€ˆ“SX64â€ˆ“™ narrow buffer strips as a means to minimize glyphosate and aminomethylphosphonic acid leaching from row crop fields. <i>Science of the Total Environment</i> , 2017, 598, 1177-1186.	3.9	31
47	Phytoplankton processes during a mesoscale iron enrichment in the NE subarctic Pacific: Part IIIâ€ˆ“Primary productivity. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 2131-2151.	0.6	29
48	Occurrence of microcystins, anabaenopeptins and other cyanotoxins in fish from a freshwater wildlife reserve impacted by harmful cyanobacterial blooms. <i>Toxicon</i> , 2021, 194, 44-52.	0.8	29
49	Applications of Chlorophyll Fluorescence in Ecotoxicology: Heavy Metals, Herbicides, and Air Pollutants. , 2003, , 151-184.		29
50	Integration of fluorescence sensors using organic optoelectronic components for microfluidic platform. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1314-1320.	4.0	27
51	Impacts of hydroxyphenylpyruvate dioxygenase (HPPD) inhibitor (mesotrione) on photosynthetic processes in <i>Chlamydomonas reinhardtii</i> . <i>Environmental Pollution</i> , 2019, 244, 295-303.	3.7	26
52	Biomass and productivity responses of zooplankton communities to experimental thermocline deepening. <i>Limnology and Oceanography</i> , 2014, 59, 1-16.	1.6	25
53	Sensitivity of <i>Scenedesmus obliquus</i> and <i>Microcystis aeruginosa</i> to atrazine: effects of acclimation and mixed cultures, and their removal ability. <i>Ecotoxicology</i> , 2016, 25, 1822-1831.	1.1	23
54	Use of chlorophyll fluorescence of <i>Closterium ehrenbergii</i> and <i>Lemna gibba</i> for toxic effect evaluation of sewage treatment plant effluent and its hydrophobic components. <i>Ecotoxicology and Environmental Safety</i> , 2003, 55, 1-8.	2.9	22

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55	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
56	Influence of light intensity on cadmium uptake and toxicity in the cyanobacteria <i>Synechocystis</i> sp. PCC6803. <i>Aquatic Toxicology</i> , 2019, 211, 163-172.	1.9	20
57	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
58	Combined effect of temperature and bleaching herbicides on photosynthesis, pigment and fatty acid composition of <i>Chlamydomonas reinhardtii</i> . <i>European Journal of Phycology</i> , 2014, 49, 508-515.	0.9	19
59	Reactive Oxygen Species and Plant Hormones. , 2014, , 65-88.		19
60	Effects of Titanium Dioxide Nanoparticles on Photosynthetic and Antioxidative Processes of <i>Scenedesmus obliquus</i> . <i>Plants</i> , 2020, 9, 1748.	1.6	19
61	Toxic and protective mechanisms of cyanobacterium <i>Synechocystis</i> sp. in response to titanium dioxide nanoparticles. <i>Environmental Pollution</i> , 2021, 274, 116508.	3.7	19
62	Capsular polysaccharides facilitate enhanced iron acquisition by the colonial cyanobacterium <i>Microcystis</i> sp. isolated from a freshwater lake. <i>Journal of Phycology</i> , 2016, 52, 105-115.	1.0	18
63	Evidence of Chlorophyll Synthesis Pathway Alteration in Desiccated Barley Leaves. <i>Plant and Cell Physiology</i> , 2000, 41, 565-570.	1.5	17
64	Spectroscopic Analysis of Desiccation-Induced Alterations of the Chlorophyllide Transformation Pathway in Etiolated Barley Leaves. <i>Plant Physiology</i> , 2001, 127, 202-211.	2.3	17
65	Evaluation of chitobiase-based estimates of biomass and production rates for developing freshwater crustacean zooplankton communities. <i>Journal of Plankton Research</i> , 2013, 35, 407-420.	0.8	17
66	Consequences of phosphate application on glyphosate uptake by roots: Impacts for environmental management practices. <i>Science of the Total Environment</i> , 2015, 537, 115-119.	3.9	17
67	The Impact of Anthropogenic Disturbance on Bacterioplankton Communities During the Construction of Donghu Tunnel (Wuhan, China). <i>Microbial Ecology</i> , 2019, 77, 277-287.	1.4	17
68	Comparison of Photosynthetic Activity of Nine Different Marine Phytoplankton Grown Under Identical Conditions Using PAM Fluorometry. <i>Photochemistry and Photobiology</i> , 2005, 81, 649-53.	1.3	17
69	Emerging Contaminants in Streams of Doce River Watershed, Minas Gerais, Brazil. <i>Frontiers in Environmental Science</i> , 2022, 9, .	1.5	17
70	COMPARISON OF RESISTANCE TO LIGHT STRESS IN TOXIC AND NON-TOXIC STRAINS OF <i>MICROCYSTIS AERUGINOSA</i> (CYANOPHYTA). <i>Journal of Phycology</i> , 2012, 48, 1002-1011.	1.0	16
71	Early biochemical effects of <i>Microcystis aeruginosa</i> extracts on juvenile rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2012, 161, 261-267.	0.7	15
72	Potential Efficiency of Grassy or Shrub Willow Buffer Strips against Nutrient Runoff from Soybean and Corn Fields in Southern Quebec, Canada. <i>Journal of Environmental Quality</i> , 2019, 48, 352-361.	1.0	15

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73	Relationship Between the Structural and Functional Changes of the Photosynthetic Apparatus During Chloroplast→Chromoplast Transition in Flower Bud of <i>Lilium longiflorum</i> ¶. <i>Photochemistry and Photobiology</i> , 2002, 75, 377.	1.3	15
74	Determination of carbamazepine in aquatic organisms by liquid→liquid extraction and liquid chromatography-tandem mass spectrometry. <i>Journal of Environmental Monitoring</i> , 2009, 11, 723.	2.1	13
75	Different responses to high light stress of toxic and non-toxic <i>Microcystis aeruginosa</i> acclimated under two light intensities and zinc concentrations. <i>Toxicological and Environmental Chemistry</i> , 2013, 95, 1145-1156.	0.6	13
76	Nitrogen resorption in <i>Acer platanoides</i> and <i>Acer saccharum</i> : influence of light exposure and leaf pigmentation. <i>Acta Physiologiae Plantarum</i> , 2014, 36, 3039-3050.	1.0	12
77	High yields of riparian buffer strips planted with <i>Salix miyabena</i> SX64™ along field crops in Québec, Canada. <i>Biomass and Bioenergy</i> , 2017, 105, 219-229.	2.9	12
78	Different physiological responses of cyanobacteria to ultraviolet-B radiation under iron-replete and iron-deficient conditions: Implications for underestimating the negative effects of UV-B radiation. <i>Journal of Phycology</i> , 2017, 53, 425-436.	1.0	10
79	Experimental evolution reveals nitrate tolerance mechanisms in <i>Desulfovibrio vulgaris</i> . <i>ISME Journal</i> , 2020, 14, 2862-2876.	4.4	10
80	Light modulates the effect of antibiotic norfloxacin on photosynthetic processes of <i>Microcystis aeruginosa</i> . <i>Aquatic Toxicology</i> , 2021, 235, 105826.	1.9	8
81	Effects of iron on the growth and minimal fluorescence yield of three marine <i>Synechococcus</i> strains (Cyanophyceae). <i>Phycological Research</i> , 2012, 60, 61-69.	0.8	7
82	Rapid Chlorophyll a Fluorescence Transients of <i>Lemna minor</i> Leaves as Indication of Light and Exogenous Electron Carriers Effect on Photosystem II Activity. <i>Photochemistry and Photobiology</i> , 2007, 83, 714-721.	1.3	5
83	Application of fluorometry (Phyto-PAM) for assessing food selection by cladocerans. <i>Hydrobiologia</i> , 2019, 829, 133-142.	1.0	5
84	Periphytic Algae and Cyanobacteria from the Rio Doce Basin Respond Differently to Metals and Salinity, Showing Different Potential for Bioremediation. <i>Plants</i> , 2021, 10, 2349.	1.6	5
85	Evidence of UVB Effect on the Photoconversion of Active Protochlorophyllides into Chlorophyllides in Etiolated Barley Leaves. <i>Photochemistry and Photobiology</i> , 1997, 65, 564-569.	1.3	4
86	Influence of CO ₂ Concentrating Mechanism on Photoinhibition in <i>Synechococcus</i> sp. PCC7942 (Cyanophyceae). <i>Phycologia</i> , 2008, 47, 588-598.	0.6	4
87	Comments on the Glyphosate herbicide residue determination in samples of environmental importance using spectrophotometric method. <i>Journal of Hazardous Materials</i> , 2017, 340, 487-489.	6.5	4
88	Necessary Sequencing Depth and Clustering Method to Obtain Relatively Stable Diversity Patterns in Studying Fish Gut Microbiota. <i>Current Microbiology</i> , 2018, 75, 1240-1246.	1.0	4
89	Measurement of Chlorophyll Fluorescence by Synchronous Detection in Integrating Sphere: A Modified Analytical Approach for the Accurate Determination of Photosynthesis Parameters for Whole Plants. <i>Environmental Science & Technology</i> , 1998, 32, 2640-2645.	4.6	3
90	In vivo determination of <i>Daphnia</i> feeding rates using PAM fluorometry. <i>Journal of Plankton Research</i> , 2011, 33, 1455-1459.	0.8	3

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91	Photosynthetic adaptation to light availability shapes the ecological success of bloom-forming cyanobacterium <i>Pseudanabaena</i> to iron limitation. <i>Journal of Phycology</i> , 2020, 56, 1457-1467.	1.0	3
92	Integration of optical and electrochemical sensors on a microfluidic platform using organic optoelectronic components and silver nanowires. , 2016, 2016, 3002-3005.		2
93	Effect of Herbicides (Diuron and Oxadiazon) on Photosynthetic Energy Dissipation Processes of Different Species of Cyanobacteria and Two Green Algae. , 2008, , 1435-1438.		2
94	Disposable organic fluorescence biosensor for water pollution monitoring.. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1358, 50301.	0.1	0