Philippe Potin

List of Publications by Year
in descending order

91	6,932	71102 41	60623 81
papers	citations	h-index	g-index

94	94	94	6294
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Algae as nutritional and functional food sources: revisiting our understanding. Journal of Applied Phycology, 2017, 29, 949-982.	2.8	984
2	The Ectocarpus genome and the independent evolution of multicellularity in brown algae. Nature, 2010, 465, 617-621.	27.8	774
3	Iodide accumulation provides kelp with an inorganic antioxidant impacting atmospheric chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6954-6958.	7.1	318
4	A review about brown algal cell walls and fucose-containing sulfated polysaccharides: Cell wall context, biomedical properties and key research challenges. Carbohydrate Polymers, 2017, 175, 395-408.	10.2	217
5	Oligoguluronates Elicit an Oxidative Burst in the Brown Algal Kelp Laminaria digitata. Plant Physiology, 2001, 125, 278-291.	4.8	189
6	Biotic interactions of marine algae. Current Opinion in Plant Biology, 2002, 5, 308-317.	7.1	168
7	Iodine transfers inÂtheÂcoastal marine environment: theÂkey role ofÂbrown algae andÂofÂtheirÂvanadium-dependent haloperoxidases. Biochimie, 2006, 88, 1773-1785.	2.6	155
8	Purification and characterization of the alpha-agarase from Alteromonas agarlyticus (Cataldi) comb. nov., strain GJ1B. FEBS Journal, 1993, 214, 599-607.	0.2	154
9	The Halogenated Metabolism of Brown Algae (Phaeophyta), Its Biological Importance and Its Environmental Significance. Marine Drugs, 2010, 8, 988-1010.	4.6	150
10	The Innate Immunity of a Marine Red Alga Involves Oxylipins from Both the Eicosanoid and Octadecanoid Pathways. Plant Physiology, 2004, 135, 1838-1848.	4.8	137
11	The endo-Î²-agarases AgaA and AgaB from the marine bacterium Zobellia galactanivorans: two paralogue enzymes with different molecular organizations and catalytic behaviours. Biochemical Journal, 2005, 385, 703-713.	3.7	130
12	Development and physiology of the brown alga <i>Ectocarpus siliculosus</i>: two centuries of research. New Phytologist, 2008, 177, 319-332.	7.3	128
13	Oligoalginate recognition and oxidative burst play a key role in natural and induced resistance of sporophytes of laminariales. Journal of Chemical Ecology, 2002, 28, 2057-2081.	1.8	127
14	Sulfated Oligosaccharides Mediate the Interaction between a Marine Red Alga and Its Green Algal Pathogenic Endophyte. Plant Cell, 1999, 11, 1635-1650.	6.6	123
15	Copper stress induces biosynthesis of octadecanoid and eicosanoid oxygenated derivatives in the brown algal kelp <i>Laminaria digitata</i>. New Phytologist, 2008, 180, 809-821.	7.3	122
16	Î¹-Carrageenases Constitute a Novel Family of Glycoside Hydrolases, Unrelated to That of Îº-Carrageenases. Journal of Biological Chemistry, 2000, 275, 35499-35505.	3.4	113
17	Oligosaccharide recognition signals and defence reactions in marine plant-microbe interactions. Current Opinion in Microbiology, 1999, 2, 276-283.	5.1	111
18	Free Fatty Acids and Methyl Jasmonate Trigger Defense Reactions in Laminaria digitata. Plant and Cell Physiology, 2009, 50, 789-800.	3.1	109

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19	Microchemical imaging of iodine distribution in the brown alga Laminaria digitata suggests a new mechanism for its accumulation. Journal of Biological Inorganic Chemistry, 2008, 13, 257-269.	2.6	100
20	Transcriptomic and metabolomic analysis of copper stress acclimation in Ectocarpus siliculosus highlights signaling and tolerance mechanisms in brown algae. BMC Plant Biology, 2014, 14, 116.	3.6	98
21	Microbiota Influences Morphology and Reproduction of the Brown Alga Ectocarpus sp.. Frontiers in Microbiology, 2016, 7, 197.	3.5	96
22	The Brown Algal Kelp Laminaria digitata Features Distinct Bromoperoxidase and Iodoperoxidase Activities. Journal of Biological Chemistry, 2003, 278, 23545-23552.	3.4	94
23	Early events in the perception of lipopolysaccharides in the brown alga Laminaria digitata include an oxidative burst and activation of fatty acid oxidation cascades. Journal of Experimental Botany, 2006, 57, 1991-1999.	4.8	87
24	Isolation and Culture of a Marine Bacterium Degrading the Sulfated Fucans from Marine Brown Algae. Marine Biotechnology, 2006, 8, 27-39.	2.4	87
25	Copper stress proteomics highlights local adaptation of two strains of the model brown alga <i>Ectocarpus siliculosus</i>. Proteomics, 2010, 10, 2074-2088.	2.2	85
26	Vanadium-dependent iodoperoxidases in Laminaria digitata, a novel biochemical function diverging from brown algal bromoperoxidases. Journal of Biological Inorganic Chemistry, 2005, 10, 156-166.	2.6	84
27	Mass Spectrometry-Based Metabolomics to Elucidate Functions in Marine Organisms and Ecosystems. Marine Drugs, 2012, 10, 849-880.	4.6	78
28	Structure/Function Analysis of a Type III Polyketide Synthase in the Brown Alga <i>Ectocarpus siliculosus</i> Reveals a Biochemical Pathway in Phlorotannin Monomer Biosynthesis. Plant Cell, 2013, 25, 3089-3103.	6.6	76
29	SPORE RELEASE INACROCHAETIUMSP. (RHODOPHYTA) IS BACTERIALLY CONTROLLED. Journal of Phycology, 2007, 43, 235-241.	2.3	73
30	Patterns of gene expression induced by oligoguluronates reveal conserved and environmentâ€specific molecular defense responses in the brown alga <i>Laminaria digitata</i>. New Phytologist, 2009, 182, 239-250.	7.3	72
31	Proteomic analysis and identification of copper stress-regulated proteins in the marine alga Scytosiphon gracilis (Phaeophyceae). Aquatic Toxicology, 2010, 96, 85-89.	4.0	71
32	Enzymatic Cross-Linking of a Phenolic Polymer Extracted from the Marine AlgaFucus serratus. Biomacromolecules, 2004, 5, 2376-2383.	5.4	69
33	A colorimetric assay for steady-state analyses of iodo- and bromoperoxidase activities. Analytical Biochemistry, 2008, 379, 60-65.	2.4	58
34	The Status of Kelp Exploitation and Marine Agronomy, with Emphasis on Macrocystis pyrifera, in Chile. Advances in Botanical Research, 2014, , 161-188.	1.1	58
35	Alpha-Agarases Define a New Family of Glycoside Hydrolases, Distinct from Beta-Agarase Families. Applied and Environmental Microbiology, 2007, 73, 4691-4694.	3.1	57
36	The Cyclization of the 3,6-Anhydro-Galactose Ring of Î¹-Carrageenan Is Catalyzed by Two d-Galactose-2,6-Sulfurylases in the Red Alga <i>Chondrus crispus</i>. Plant Physiology, 2009, 151, 1609-1616.	4.8	50

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37	In vivo speciation studies and antioxidant properties of bromine in Laminaria digitata reinforce the significance of iodine accumulation for kelps. Journal of Experimental Botany, 2013, 64, 2653-2664.	4.8	49
38	Identification of proteins involved in desiccation tolerance in the red seaweed <i>Pyropia orbicularis</i> (Rhodophyta, Bangiales). Proteomics, 2015, 15, 3954-3968.	2.2	47
39	Up-Regulation of Lipoxygenase, Phospholipase, and Oxylipin-Production in the Induced Chemical Defense of the Red Alga Gracilaria chilensis against Epiphytes. Journal of Chemical Ecology, 2011, 37, 677-686.	1.8	46
40	The Vanadium Iodoperoxidase from the Marine Flavobacteriaceae Species Zobellia galactanivorans Reveals Novel Molecular and Evolutionary Features of Halide Specificity in the Vanadium Haloperoxidase Enzyme Family. Applied and Environmental Microbiology, 2014, 80, 7561-7573.	3.1	46
41	Human CYP4F3s are the main catalysts in the oxidation of fatty acid epoxides. Journal of Lipid Research, 2004, 45, 1446-1458.	4.2	43
42	DISSECTION OF TWO DISTINCT DEFENSE-RELATED RESPONSES TO AGAR OLIGOSACCHARIDES IN GRACILARIA CHILENSIS (RHODOPHYTA) AND GRACILARIA CONFERTA (RHODOPHYTA)1. Journal of Phycology, 2005, 41, 863-873.	2.3	43
43	Structure of Algal-Born Phenolic Polymeric Adhesives. Macromolecular Bioscience, 2006, 6, 737-746.	4.1	43
44	NMR spectroscopic investigation of agarose oligomers produced by an Î±-agarase. Carbohydrate Research, 1994, 253, 69-77.	2.3	42
45	Title is missing!. Journal of Applied Phycology, 2001, 13, 185-193.	2.8	40
46	TWOâ€DIMENSIONAL GEL ELECTROPHORESIS ANALYSIS OF BROWN ALGAL PROTEIN EXTRACTS¹. Journal of Phycology, 2008, 44, 1315-1321.	2.3	39
47	Whole-cell spectroscopy is a convenient tool to assist molecular identification of cultivatable marine bacteria and to investigate their adaptive metabolism. Talanta, 2010, 80, 1758-1770.	5.5	39
48	Dynamic Defense of Marine Macroalgae Against Pathogens: From Early Activated to Geneâ€Regulated Responses. Advances in Botanical Research, 2007, 46, 221-266.	1.1	38
49	Apoplastic oxidation of L-asparagine is involved in the control of the green algal endophyte Acrochaete operculata Correa & Nielsen by the red seaweed Chondrus crispus Stackhouse. Journal of Experimental Botany, 2005, 56, 1317-1326.	4.8	37
50	Oxidative Burst and Related Responses in Biotic Interactions of Algae. , 2008, , 245-271.		37
51	Chondrus crispus â€“ A Present and Historical Model Organism for Red Seaweeds. Advances in Botanical Research, 2014, 71, 53-89.	1.1	37
52	Different regulation of haloperoxidation during agar oligosaccharide-activated defence mechanisms in two related red algae, Gracilaria sp. and Gracilaria chilensis. Journal of Experimental Botany, 2007, 58, 4365-4372.	4.8	36
53	Evidence for oxylipin synthesis and induction of a new polyunsaturated fatty acid hydroxylase activity in Chondrus crispus in response to methyljasmonate. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1771, 565-575.	2.4	35
54	Using chemical language to shape future marine health. Frontiers in Ecology and the Environment, 2019, 17, 530-537.	4.0	33

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55	Processing and Hydrolytic Mechanism of the cgkA-Encoded kappa-Carrageenase of Alteromonas carrageenovora. FEBS Journal, 1995, 228, 971-975.	0.2	33
56	Influence of Exudates of the Kelp Laminaria Digitata on Biofilm Formation of Associated and Exogenous Bacterial Epiphytes. Microbial Ecology, 2012, 64, 359-369.	2.8	32
57	Vibrio gallicus sp. nov., isolated from the gut of the French abalone Haliotis tuberculata. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 843-846.	1.7	30
58	Bromine is an Endogenous Component of a Vanadium Bromoperoxidase. Journal of the American Chemical Society, 2005, 127, 15340-15341.	13.7	30
59	Release of Volatile Aldehydes by the Brown Algal Kelp <i>Laminaria digitata</i> in Response to Both Biotic and Abiotic Stress. ChemBioChem, 2009, 10, 977-982.	2.6	30
60	Microbial Degradation of Lobster Shells to Extract Chitin Derivatives for Plant Disease Management. Frontiers in Microbiology, 2017, 8, 781.	3.5	27
61	Waterborne Signaling Primes the Expression of Elicitor-Induced Genes and Buffers the Oxidative Responses in the Brown Alga Laminaria digitata. PLoS ONE, 2011, 6, e21475.	2.5	26
62	A Signal Released by an Endophytic Attacker Acts as a Substrate for a Rapid Defensive Reaction of the Red AlgaChondrus crispus. ChemBioChem, 2002, 3, 1260-1263.	2.6	25
63	Foliose <i>Ulva</i> Species Show Considerable Interâ€Specific Genetic Diversity, Low Intraâ€Specific Genetic Variation, and the Rare Occurrence of Interâ€Specific Hybrids in the Wild. Journal of Phycology, 2021, 57, 219-233.	2.3	24
64	Exhaustive reanalysis of barcode sequences from public repositories highlights ongoing misidentifications and impacts taxa diversity and distribution. Molecular Ecology Resources, 2022, 22, 86-101.	4.8	24
65	Isoprostanoids quantitative profiling of marine red and brown macroalgae. Food Chemistry, 2018, 268, 452-462.	8.2	22
66	The Influence of Halideâ€Mediated Oxidation on Algaeâ€Born Adhesives. Macromolecular Bioscience, 2007, 7, 1280-1289.	4.1	21
67	Kelps feature systemic defense responses: insights into the evolution of innate immunity in multicellular eukaryotes. New Phytologist, 2014, 204, 567-576.	7.3	21
68	Constitutive or Inducible Protective Mechanisms against UV-B Radiation in the Brown Alga Fucus vesiculosus? A Study of Gene Expression and Phlorotannin Content Responses. PLoS ONE, 2015, 10, e0128003.	2.5	21
69	Intimate Associations Between Epiphytes, Endophytes, and Parasites of Seaweeds. Ecological Studies, 2012, , 203-234.	1.2	20
70	The Ectocarpus Genome and Brown Algal Genomics. Advances in Botanical Research, 2012, 64, 141-184.	1.1	18
71	Isoprostanoid Profiling of Marine Microalgae. Biomolecules, 2020, 10, 1073.	4.0	18
72	DEFENSE EVOLUTION IN THE GRACILARIACEAE (RHODOPHYTA): SUBSTRATE-REGULATED OXIDATION OF AGAR OLIGOSACCHARIDES IS MORE ANCIENT THAN THE OLIGOAGAR-ACTIVATED OXIDATIVE BURST1. Journal of Phycology, 2010, 46, 958-968.	2.3	16

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73	Herbivore-induced chemical and molecular responses of the kelps Laminaria digitata and Lessonia spicata. PLoS ONE, 2017, 12, e0173315.	2.5	16
74	Toward Systems Biology in Brown Algae to Explore Acclimation and Adaptation to the Shore Environment. OMICS A Journal of Integrative Biology, 2011, 15, 883-892.	2.0	15
75	Different speciation for bromine in brown and red algae, revealed by in vivo Xâ€ray absorption spectroscopic studies. Journal of Phycology, 2014, 50, 652-664.	2.3	15
76	Phenolic-based Adhesives of Marine Brown Algae. , 2006, , 105-124.		13
77	Differential induction of oxylipin pathway in potato and tobacco cells by bacterial and oomycete elicitors. Plant Cell Reports, 2013, 32, 579-589.	5.6	12
78	Impedance flow cytometry allows the early prediction of embryo yields in wheat (Triticum aestivum L.) microspore cultures. Plant Science, 2020, 300, 110586.	3.6	11
79	Prostaglandin A2triggers a strong oxidative burst in Laminaria: a novel defense inducer in brown algae?. Algae, 2012, 27, 21-32.	2.3	11
80	Peptimapper: proteogenomics workflow for the expert annotation of eukaryotic genomes. BMC Genomics, 2019, 20, 56.	2.8	10
81	Low Mannitol Concentrations in Arabidopsis thaliana Expressing Ectocarpus Genes Improve Salt Tolerance. Plants, 2020, 9, 1508.	3.5	10
82	Mass spectrometry â€“ based imaging techniques for iodine-127 and iodine-129 detection and localization in the brown alga Laminaria digitata. Journal of Environmental Radioactivity, 2021, 231, 106552.	1.7	8
83	A sequencing-free assay for foliose Ulva species identification, hybrid detection and bulk biomass characterisation. Algal Research, 2021, 55, 102280.	4.6	8
84	Occurrence of albinism during wheat androgenesis is correlated with repression of the key genes required for proper chloroplast biogenesis. Planta, 2021, 254, 123.	3.2	5
85	A Novel Protein from Ectocarpus sp. Improves Salinity and High Temperature Stress Tolerance in Arabidopsis thaliana. International Journal of Molecular Sciences, 2021, 22, 1971.	4.1	4
86	Red Algal Defenses in the Genomics Age. Cellular Origin and Life in Extreme Habitats, 2010, , 457-477.	0.3	4
87	Anion binding in biological systems. Journal of Physics: Conference Series, 2009, 190, 012196.	0.4	3
88	A highly prevalent filamentous algal endophyte in natural populations of the sugar kelp Saccharina latissima is not detected during cultivation in Northern Brittany. Aquatic Living Resources, 2019, 32, 21.	1.2	3
89	Biochemical characteristics of a diffusible factor that induces gametophyte to sporophyte switching in the brown alga Ectocarpus. Journal of Phycology, 2021, 57, 742-753.	2.3	3
90	Synergistic effects of temperature and light affect the relationship between <scp><i>Taonia atomaria</i></scp> and its epibacterial community: a controlled conditions study. Environmental Microbiology, 2021, 23, 6777-6797.	3.8	2

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91	Production and Bioassay of a Diffusible Factor That Induces Gametophyte-to-Sporophyte Developmental Reprogramming in the Brown Alga Ectocarpus. Bio-protocol, 2020, 10, e3753.	0.4	1