

Philippe Potin

List of Publications by Year in descending order

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91
papers

6,932
citations

71102

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times ranked

6294
citing authors

#	ARTICLE	IF	CITATIONS
1	Exhaustive reanalysis of barcode sequences from public repositories highlights ongoing misidentifications and impacts taxa diversity and distribution. <i>Molecular Ecology Resources</i> , 2022, 22, 86-101.	4.8	24
2	Foliose <i>Ulva</i> Species Show Considerable Inter-specific Genetic Diversity, Low Intra-specific Genetic Variation, and the Rare Occurrence of Inter-specific Hybrids in the Wild. <i>Journal of Phycology</i> , 2021, 57, 219-233.	2.3	24
3	A Novel Protein from <i>Ectocarpus</i> sp. Improves Salinity and High Temperature Stress Tolerance in <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 1971.	4.1	4
4	Biochemical characteristics of a diffusible factor that induces gametophyte to sporophyte switching in the brown alga <i>Ectocarpus</i> . <i>Journal of Phycology</i> , 2021, 57, 742-753.	2.3	3
5	Mass spectrometry - based imaging techniques for iodine-127 and iodine-129 detection and localization in the brown alga <i>Laminaria digitata</i> . <i>Journal of Environmental Radioactivity</i> , 2021, 231, 106552.	1.7	8
6	A sequencing-free assay for foliose <i>Ulva</i> species identification, hybrid detection and bulk biomass characterisation. <i>Algal Research</i> , 2021, 55, 102280.	4.6	8
7	Synergistic effects of temperature and light affect the relationship between <i>Taonia atomaria</i> and its epibacterial community: a controlled conditions study. <i>Environmental Microbiology</i> , 2021, 23, 6777-6797.	3.8	2
8	Occurrence of albinism during wheat androgenesis is correlated with repression of the key genes required for proper chloroplast biogenesis. <i>Planta</i> , 2021, 254, 123.	3.2	5
9	Low Mannitol Concentrations in <i>Arabidopsis thaliana</i> Expressing <i>Ectocarpus</i> Genes Improve Salt Tolerance. <i>Plants</i> , 2020, 9, 1508.	3.5	10
10	Isoprostanoid Profiling of Marine Microalgae. <i>Biomolecules</i> , 2020, 10, 1073.	4.0	18
11	Impedance flow cytometry allows the early prediction of embryo yields in wheat (<i>Triticum aestivum</i> L.) microspore cultures. <i>Plant Science</i> , 2020, 300, 110586.	3.6	11
12	Production and Bioassay of a Diffusible Factor That Induces Gametophyte-to-Sporophyte Developmental Reprogramming in the Brown Alga <i>Ectocarpus</i> . <i>Bio-protocol</i> , 2020, 10, e3753.	0.4	1
13	Using chemical language to shape future marine health. <i>Frontiers in Ecology and the Environment</i> , 2019, 17, 530-537.	4.0	33
14	A highly prevalent filamentous algal endophyte in natural populations of the sugar kelp <i>Saccharina latissima</i> is not detected during cultivation in Northern Brittany. <i>Aquatic Living Resources</i> , 2019, 32, 21.	1.2	3
15	Peptimapper: proteogenomics workflow for the expert annotation of eukaryotic genomes. <i>BMC Genomics</i> , 2019, 20, 56.	2.8	10
16	Isoprostanoids quantitative profiling of marine red and brown macroalgae. <i>Food Chemistry</i> , 2018, 268, 452-462.	8.2	22
17	A review about brown algal cell walls and fucose-containing sulfated polysaccharides: Cell wall context, biomedical properties and key research challenges. <i>Carbohydrate Polymers</i> , 2017, 175, 395-408.	10.2	217
18	Algae as nutritional and functional food sources: revisiting our understanding. <i>Journal of Applied Phycology</i> , 2017, 29, 949-982.	2.8	984

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19	Microbial Degradation of Lobster Shells to Extract Chitin Derivatives for Plant Disease Management. <i>Frontiers in Microbiology</i> , 2017, 8, 781.	3.5	27
20	Herbivore-induced chemical and molecular responses of the kelps <i>Laminaria digitata</i> and <i>Lessonia spicata</i> . <i>PLoS ONE</i> , 2017, 12, e0173315.	2.5	16
21	Microbiota Influences Morphology and Reproduction of the Brown Alga <i>Ectocarpus</i> sp.. <i>Frontiers in Microbiology</i> , 2016, 7, 197.	3.5	96
22	Identification of proteins involved in desiccation tolerance in the red seaweed <i>Pyropia orbicularis</i> (Rhodophyta, Bangiales). <i>Proteomics</i> , 2015, 15, 3954-3968.	2.2	47
23	Constitutive or Inducible Protective Mechanisms against UV-B Radiation in the Brown Alga <i>Fucus vesiculosus</i> ? A Study of Gene Expression and Phlorotannin Content Responses. <i>PLoS ONE</i> , 2015, 10, e0128003.	2.5	21
24	<i>Chondrus crispus</i> – A Present and Historical Model Organism for Red Seaweeds. <i>Advances in Botanical Research</i> , 2014, 71, 53-89.	1.1	37
25	Kelps feature systemic defense responses: insights into the evolution of innate immunity in multicellular eukaryotes. <i>New Phytologist</i> , 2014, 204, 567-576.	7.3	21
26	The Vanadium Iodoperoxidase from the Marine Flavobacteriaceae Species <i>Zobellia galactanivorans</i> Reveals Novel Molecular and Evolutionary Features of Halide Specificity in the Vanadium Haloperoxidase Enzyme Family. <i>Applied and Environmental Microbiology</i> , 2014, 80, 7561-7573.	3.1	46
27	The Status of Kelp Exploitation and Marine Agronomy, with Emphasis on <i>Macrocystis pyrifera</i> , in Chile. <i>Advances in Botanical Research</i> , 2014, , 161-188.	1.1	58
28	Transcriptomic and metabolomic analysis of copper stress acclimation in <i>Ectocarpus siliculosus</i> highlights signaling and tolerance mechanisms in brown algae. <i>BMC Plant Biology</i> , 2014, 14, 116.	3.6	98
29	Different speciation for bromine in brown and red algae, revealed by in vivo X-ray absorption spectroscopic studies. <i>Journal of Phycology</i> , 2014, 50, 652-664.	2.3	15
30	Differential induction of oxylipin pathway in potato and tobacco cells by bacterial and oomycete elicitors. <i>Plant Cell Reports</i> , 2013, 32, 579-589.	5.6	12
31	In vivo speciation studies and antioxidant properties of bromine in <i>Laminaria digitata</i> reinforce the significance of iodine accumulation for kelps. <i>Journal of Experimental Botany</i> , 2013, 64, 2653-2664.	4.8	49
32	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. <i>Plant Cell</i> , 2013, 25, 3089-3103.	6.6	76
33	Intimate Associations Between Epiphytes, Endophytes, and Parasites of Seaweeds. <i>Ecological Studies</i> , 2012, , 203-234.	1.2	20
34	The <i>Ectocarpus</i> Genome and Brown Algal Genomics. <i>Advances in Botanical Research</i> , 2012, 64, 141-184.	1.1	18
35	Mass Spectrometry-Based Metabolomics to Elucidate Functions in Marine Organisms and Ecosystems. <i>Marine Drugs</i> , 2012, 10, 849-880.	4.6	78
36	Influence of Exudates of the Kelp <i>Laminaria Digitata</i> on Biofilm Formation of Associated and Exogenous Bacterial Epiphytes. <i>Microbial Ecology</i> , 2012, 64, 359-369.	2.8	32

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37	Prostaglandin A2 triggers a strong oxidative burst in <i>Laminaria</i> : a novel defense inducer in brown algae?. <i>Algae</i> , 2012, 27, 21-32.	2.3	11
38	Toward Systems Biology in Brown Algae to Explore Acclimation and Adaptation to the Shore Environment. <i>OMICS A Journal of Integrative Biology</i> , 2011, 15, 883-892.	2.0	15
39	Up-Regulation of Lipoxygenase, Phospholipase, and Oxylipin-Production in the Induced Chemical Defense of the Red Alga <i>Gracilaria chilensis</i> against Epiphytes. <i>Journal of Chemical Ecology</i> , 2011, 37, 677-686.	1.8	46
40	Waterborne Signaling Primes the Expression of Elicitor-Induced Genes and Buffers the Oxidative Responses in the Brown Alga <i>Laminaria digitata</i> . <i>PLoS ONE</i> , 2011, 6, e21475.	2.5	26
41	Copper stress proteomics highlights local adaptation of two strains of the model brown alga <i>Ectocarpus siliculosus</i> . <i>Proteomics</i> , 2010, 10, 2074-2088.	2.2	85
42	The <i>Ectocarpus</i> genome and the independent evolution of multicellularity in brown algae. <i>Nature</i> , 2010, 465, 617-621.	27.8	774
43	Whole-cell spectroscopy is a convenient tool to assist molecular identification of cultivatable marine bacteria and to investigate their adaptive metabolism. <i>Talanta</i> , 2010, 80, 1758-1770.	5.5	39
44	Proteomic analysis and identification of copper stress-regulated proteins in the marine alga <i>Scytosiphon gracilis</i> (Phaeophyceae). <i>Aquatic Toxicology</i> , 2010, 96, 85-89.	4.0	71
45	DEFENSE EVOLUTION IN THE GRACILARIACEAE (RHODOPHYTA): SUBSTRATE-REGULATED OXIDATION OF AGAR OLIGOSACCHARIDES IS MORE ANCIENT THAN THE OLIGOAGAR-ACTIVATED OXIDATIVE BURST1. <i>Journal of Phycology</i> , 2010, 46, 958-968.	2.3	16
46	The Halogenated Metabolism of Brown Algae (Phaeophyta), Its Biological Importance and Its Environmental Significance. <i>Marine Drugs</i> , 2010, 8, 988-1010.	4.6	150
47	Red Algal Defenses in the Genomics Age. <i>Cellular Origin and Life in Extreme Habitats</i> , 2010, , 457-477.	0.3	4
48	Free Fatty Acids and Methyl Jasmonate Trigger Defense Reactions in <i>Laminaria digitata</i> . <i>Plant and Cell Physiology</i> , 2009, 50, 789-800.	3.1	109
49	The Cyclization of the 3,6-Anhydro-Galactose Ring of Î ¹ -Carrageenan Is Catalyzed by Two d-Galactose-2,6-Sulfurylases in the Red Alga <i>Chondrus crispus</i> . <i>Plant Physiology</i> , 2009, 151, 1609-1616.	4.8	50
50	Release of Volatile Aldehydes by the Brown Algal Kelp <i>Laminaria digitata</i> in Response to Both Biotic and Abiotic Stress. <i>ChemBioChem</i> , 2009, 10, 977-982.	2.6	30
51	Patterns of gene expression induced by oligogulonates reveal conserved and environment-specific molecular defense responses in the brown alga <i>Laminaria digitata</i> . <i>New Phytologist</i> , 2009, 182, 239-250.	7.3	72
52	Anion binding in biological systems. <i>Journal of Physics: Conference Series</i> , 2009, 190, 012196.	0.4	3
53	Microchemical imaging of iodine distribution in the brown alga <i>Laminaria digitata</i> suggests a new mechanism for its accumulation. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 257-269.	2.6	100
54	A colorimetric assay for steady-state analyses of iodo- and bromoperoxidase activities. <i>Analytical Biochemistry</i> , 2008, 379, 60-65.	2.4	58

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55	TWO-DIMENSIONAL GEL ELECTROPHORESIS ANALYSIS OF BROWN ALGAL PROTEIN EXTRACTS. <i>Journal of Phycology</i> , 2008, 44, 1315-1321.	2.3	39
56	Development and physiology of the brown alga <i>Ectocarpus siliculosus</i> : two centuries of research. <i>New Phytologist</i> , 2008, 177, 319-332.	7.3	128
57	Copper stress induces biosynthesis of octadecanoid and eicosanoid oxygenated derivatives in the brown algal kelp <i>Laminaria digitata</i> . <i>New Phytologist</i> , 2008, 180, 809-821.	7.3	122
58	Oxidative Burst and Related Responses in Biotic Interactions of Algae. , 2008, , 245-271.		37
59	Iodide accumulation provides kelp with an inorganic antioxidant impacting atmospheric chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6954-6958.	7.1	318
60	Different regulation of haloperoxidation during agar oligosaccharide-activated defence mechanisms in two related red algae, <i>Gracilaria</i> sp. and <i>Gracilaria chilensis</i> . <i>Journal of Experimental Botany</i> , 2007, 58, 4365-4372.	4.8	36
61	Alpha-Agarases Define a New Family of Glycoside Hydrolases, Distinct from Beta-Agarase Families. <i>Applied and Environmental Microbiology</i> , 2007, 73, 4691-4694.	3.1	57
62	Evidence for oxylipin synthesis and induction of a new polyunsaturated fatty acid hydroxylase activity in <i>Chondrus crispus</i> in response to methyljasmonate. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2007, 1771, 565-575.	2.4	35
63	Dynamic Defense of Marine Macroalgae Against Pathogens: From Early Activated to Gene-Regulated Responses. <i>Advances in Botanical Research</i> , 2007, 46, 221-266.	1.1	38
64	The Influence of Halide-Mediated Oxidation on Algae-Born Adhesives. <i>Macromolecular Bioscience</i> , 2007, 7, 1280-1289.	4.1	21
65	SPORE RELEASE IN <i>CROCHAETIUM</i> SP. (RHODOPHYTA) IS BACTERIALLY CONTROLLED. <i>Journal of Phycology</i> , 2007, 43, 235-241.	2.3	73
66	Early events in the perception of lipopolysaccharides in the brown alga <i>Laminaria digitata</i> include an oxidative burst and activation of fatty acid oxidation cascades. <i>Journal of Experimental Botany</i> , 2006, 57, 1991-1999.	4.8	87
67	Iodine transfers in the coastal marine environment: the key role of brown algae and their vanadium-dependent haloperoxidases. <i>Biochimie</i> , 2006, 88, 1773-1785.	2.6	155
68	Phenolic-based Adhesives of Marine Brown Algae. , 2006, , 105-124.		13
69	Isolation and Culture of a Marine Bacterium Degrading the Sulfated Fucans from Marine Brown Algae. <i>Marine Biotechnology</i> , 2006, 8, 27-39.	2.4	87
70	Structure of Algal-Born Phenolic Polymeric Adhesives. <i>Macromolecular Bioscience</i> , 2006, 6, 737-746.	4.1	43
71	The endo- β -agarases AgaA and AgaB from the marine bacterium <i>Zobellia galactanivorans</i> : two paralogue enzymes with different molecular organizations and catalytic behaviours. <i>Biochemical Journal</i> , 2005, 385, 703-713.	3.7	130
72	DISSECTION OF TWO DISTINCT DEFENSE-RELATED RESPONSES TO AGAR OLIGOSACCHARIDES IN <i>GRACILARIA CHILENSIS</i> (RHODOPHYTA) AND <i>GRACILARIA CONFERTA</i> (RHODOPHYTA)1. <i>Journal of Phycology</i> , 2005, 41, 863-873.	2.3	43

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73	Vanadium-dependent iodoperoxidases in <i>Laminaria digitata</i> , a novel biochemical function diverging from brown algal bromoperoxidases. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 156-166.	2.6	84
74	Apoplasmic oxidation of L-asparagine is involved in the control of the green algal endophyte <i>Acrochaete operculata</i> Correa & Nielsen by the red seaweed <i>Chondrus crispus</i> Stackhouse. <i>Journal of Experimental Botany</i> , 2005, 56, 1317-1326.	4.8	37
75	Bromine is an Endogenous Component of a Vanadium Bromoperoxidase. <i>Journal of the American Chemical Society</i> , 2005, 127, 15340-15341.	13.7	30
76	The Innate Immunity of a Marine Red Alga Involves Oxylipins from Both the Eicosanoid and Octadecanoid Pathways. <i>Plant Physiology</i> , 2004, 135, 1838-1848.	4.8	137
77	<i>Vibrio gallicus</i> sp. nov., isolated from the gut of the French abalone <i>Haliotis tuberculata</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 843-846.	1.7	30
78	Human CYP4F3s are the main catalysts in the oxidation of fatty acid epoxides. <i>Journal of Lipid Research</i> , 2004, 45, 1446-1458.	4.2	43
79	Enzymatic Cross-Linking of a Phenolic Polymer Extracted from the Marine Alga <i>Fucus serratus</i> . <i>Biomacromolecules</i> , 2004, 5, 2376-2383.	5.4	69
80	The Brown Algal Kelp <i>Laminaria digitata</i> Features Distinct Bromoperoxidase and Iodoperoxidase Activities. <i>Journal of Biological Chemistry</i> , 2003, 278, 23545-23552.	3.4	94
81	Biotic interactions of marine algae. <i>Current Opinion in Plant Biology</i> , 2002, 5, 308-317.	7.1	168
82	A Signal Released by an Endophytic Attacker Acts as a Substrate for a Rapid Defensive Reaction of the Red Alga <i>Chondrus crispus</i> . <i>ChemBioChem</i> , 2002, 3, 1260-1263.	2.6	25
83	Oligoalginate recognition and oxidative burst play a key role in natural and induced resistance of sporophytes of laminariales. <i>Journal of Chemical Ecology</i> , 2002, 28, 2057-2081.	1.8	127
84	Title is missing!. <i>Journal of Applied Phycology</i> , 2001, 13, 185-193.	2.8	40
85	Oligoguluronates Elicit an Oxidative Burst in the Brown Algal Kelp <i>Laminaria digitata</i> . <i>Plant Physiology</i> , 2001, 125, 278-291.	4.8	189
86	β -Carrageenases Constitute a Novel Family of Glycoside Hydrolases, Unrelated to That of α -Carrageenases. <i>Journal of Biological Chemistry</i> , 2000, 275, 35499-35505.	3.4	113
87	Oligosaccharide recognition signals and defence reactions in marine plant-microbe interactions. <i>Current Opinion in Microbiology</i> , 1999, 2, 276-283.	5.1	111
88	Sulfated Oligosaccharides Mediate the Interaction between a Marine Red Alga and Its Green Algal Pathogenic Endophyte. <i>Plant Cell</i> , 1999, 11, 1635-1650.	6.6	123
89	Processing and Hydrolytic Mechanism of the <i>cgkA</i> -Encoded kappa-Carrageenase of <i>Alteromonas carrageenovora</i> . <i>FEBS Journal</i> , 1995, 228, 971-975.	0.2	33
90	NMR spectroscopic investigation of agarose oligomers produced by an α -agarase. <i>Carbohydrate Research</i> , 1994, 253, 69-77.	2.3	42

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91	Purification and characterization of the alpha-agarase from <i>Alteromonas agarlyticus</i> (Cataldi) comb. nov., strain CJ1B. FEBS Journal, 1993, 214, 599-607.	0.2	154