

# Catherine Leblanc

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,908  
citations

471061

17  
h-index

344852

36  
g-index

45  
all docs

45  
docs citations

45  
times ranked

2486  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Ectocarpus genome and the independent evolution of multicellularity in brown algae. <i>Nature</i> , 2010, 465, 617-621.	13.7	774
2	Genome structure and metabolic features in the red seaweed <i>Chondrus crispus</i> shed light on evolution of the Archaeplastida. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5247-5252.	3.3	307
3	Habitat and taxon as driving forces of carbohydrate catabolism in marine heterotrophic bacteria: example of the model algae-associated bacterium <i>Zobellia galactanivorans</i> Dsij <sup>T</sup> . <i>Environmental Microbiology</i> , 2016, 18, 4610-4627.	1.8	131
4	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.	3.1	76
5	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.	3.5	72
6	Seasonal and algal diet-driven patterns of the digestive microbiota of the European abalone <i>Haliotis tuberculata</i> , a generalist marine herbivore. <i>Microbiome</i> , 2018, 6, 60.	4.9	50
7	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.	1.4	46
8	A community perspective on the concept of marine holobionts: current status, challenges, and future directions. <i>PeerJ</i> , 2021, 9, e10911.	0.9	44
9	Genome and metabolic network of <i>Candidatus Phaeomarinobacter ectocarpi</i> Ec32, a new candidate genus of Alphaproteobacteria frequently associated with brown algae. <i>Frontiers in Genetics</i> , 2014, 5, 241.	1.1	43
10	<i>Chondrus crispus</i> – A Present and Historical Model Organism for Red Seaweeds. <i>Advances in Botanical Research</i> , 2014, 71, 53-89.	0.5	37
11	The genome of <i>Ectocarpus subulatus</i> – A highly stress-tolerant brown alga. <i>Marine Genomics</i> , 2020, 52, 100740.	0.4	26
12	Isoprostanoids quantitative profiling of marine red and brown macroalgae. <i>Food Chemistry</i> , 2018, 268, 452-462.	4.2	22
13	Kelps feature systemic defense responses: insights into the evolution of innate immunity in multicellular eukaryotes. <i>New Phytologist</i> , 2014, 204, 567-576.	3.5	21
14	Evaluation of a new primer combination to minimize plastid contamination in 16S rDNA metabarcoding analyses of alga-associated bacterial communities. <i>Environmental Microbiology Reports</i> , 2020, 12, 30-37.	1.0	21
15	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.	1.1	21
16	Accumulation of detached kelp biomass in a subtidal temperate coastal ecosystem induces succession of epiphytic and sediment bacterial communities. <i>Environmental Microbiology</i> , 2021, 23, 1638-1655.	1.8	20
17	qPCR-based relative quantification of the brown algal endophyte <i>Laminarionema elsbetiae</i> in <i>Saccharina latissima</i> : variation and dynamics of host-endophyte interactions. <i>Journal of Applied Phycology</i> , 2018, 30, 2901-2911.	1.5	19
18	Genome-Scale Metabolic Networks Shed Light on the Carotenoid Biosynthesis Pathway in the Brown Algae <i>Saccharina japonica</i> and <i>Cladosiphon okamuranus</i> . <i>Antioxidants</i> , 2019, 8, 564.	2.2	19

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19	Isoprostanoid Profiling of Marine Microalgae. <i>Biomolecules</i> , 2020, 10, 1073.	1.8	18
20	Diversity, biogeography and host specificity of kelp endophytes with a focus on the genera <i>Laminarionema</i> and <i>Laminariocolax</i> (Ectocarpales, Phaeophyceae). <i>European Journal of Phycology</i> , 2019, 54, 39-51.	0.9	17
21	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.	1.1	16
22	Inferring Biochemical Reactions and Metabolite Structures to Understand Metabolic Pathway Drift. <i>IScience</i> , 2020, 23, 100849.	1.9	15
23	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.	1.7	11
24	<i>Haliotis tuberculata</i> , a generalist marine herbivore that prefers a mixed diet, but with consistent individual foraging activity. <i>Ethology</i> , 2020, 126, 716-726.	0.5	9
25	Induction of Phlorotannins and Gene Expression in the Brown Macroalga <i>Fucus vesiculosus</i> in Response to the Herbivore <i>Littorina littorea</i> . <i>Marine Drugs</i> , 2021, 19, 185.	2.2	9
26	Hormonally active phytochemicals from macroalgae: A largely untapped source of ligands to deorphanize nuclear receptors in emerging marine animal models. <i>General and Comparative Endocrinology</i> , 2018, 265, 41-45.	0.8	8
27	Mass spectrometry $\delta^{13}C$ 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.	0.9	8
28	Functional Characterization of a L-2-Haloacid Dehalogenase From <i>Zobellia galactanivorans</i> DsijT Suggests a Role in Haloacetic Acid Catabolism and a Wide Distribution in Marine Environments. <i>Frontiers in Microbiology</i> , 2021, 12, 725997.	1.5	8
29	Semi-Quantitative Targeted Gas Chromatography-Mass Spectrometry Profiling Supports a Late Side-Chain Reductase Cycloartenol-to-Cholesterol Biosynthesis Pathway in Brown Algae. <i>Frontiers in Plant Science</i> , 2021, 12, 648426.	1.7	5
30	Different Early Responses of Laminariales to an Endophytic Infection Provide Insights About Kelp Host Specificity. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	5
31	Impact of abiotic stresses on the protection efficacy of defence elicitors and on metabolic regulation in tomato leaves infected by <i>Botrytis cinerea</i> . <i>European Journal of Plant Pathology</i> , 2015, 142, 223-237.	0.8	4
32	X-ray Diffraction and Density Functional Theory Provide Insight into Vanadate Binding to Homo-hexameric Bromoperoxidase II and the Mechanism of Bromide Oxidation. <i>ACS Chemical Biology</i> , 2018, 13, 1243-1259.	1.6	4
33	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.	0.5	3
34	Transcriptome-wide identification and evaluation of optimal reference genes for RT-qPCR expression analysis of <i>Saccharina latissima</i> responses to biotic and abiotic stress. <i>Journal of Applied Phycology</i> , 2021, 33, 617-627.	1.5	3
35	Pathogen exposure leads to a transcriptional downregulation of core cellular functions that may dampen the immune response in a macroalga. <i>Molecular Ecology</i> , 2022, 31, 3468-3480.	2.0	3
36	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.	1.8	2