Cecile Herve

List of Publications by Year
in descending order

36 papers	2,990 citations	304701 22 h-index	345203 36 g-index
37 all docs	37 docs citations	37 times ranked	3770 citing authors

#	Article	IF	Citations
1	Evolution and Diversity of Plant Cell Walls: From Algae to Flowering Plants. Annual Review of Plant Biology, 2011, 62, 567-590.	18.7	613
2	Pectic homogalacturonan masks abundant sets of xyloglucan epitopes in plant cell walls. BMC Plant Biology, 2008, 8, 60.	3.6	375
3	Genome structure and metabolic features in the red seaweed <i>Chondrus crispus</i> shed light on evolution of the Archaeplastida. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5247-5252.	7.1	307
4	Carbohydrate-binding modules promote the enzymatic deconstruction of intact plant cell walls by targeting and proximity effects. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15293-15298.	7.1	219
5	Chemical and enzymatic fractionation of cell walls from Fucales: insights into the structure of the extracellular matrix of brown algae. Annals of Botany, 2014, 114, 1203-1216.	2.9	219
6	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
7	Evidence that family 35 carbohydrate binding modules display conserved specificity but divergent function. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3065-3070.	7.1	109
8	NADPH oxidases in Eukaryotes: red algae provide new hints!. Current Genetics, 2006, 49, 190-204.	1.7	94
9	Arabinogalactan proteins have deep roots in eukaryotes: identification of genes and epitopes in brown algae and their role in <i>Fucus serratus</i> embryo development. New Phytologist, 2016, 209, 1428-1441.	7.3	87
10	Enzymatic treatments reveal differential capacities for xylan recognition and degradation in primary and secondary plant cell walls. Plant Journal, 2009, 58, 413-422.	5.7	72
11	Insoluble (1â€‰â†’â€‰3), (1â€‰â†’â€‰4)-Î²-D-glucan is a component of cell walls in brown algae (Phaeophyceae) and is masked by alginates in tissues. Scientific Reports, 2017, 7, 2880.	3.3	64
12	Sweet and sour sugars from the sea: the biosynthesis and remodeling of sulfated cell wall polysaccharides from marine macroalgae. Perspectives in Phycology, 2015, 2, 51-64.	1.9	58
13	Monoclonal Antibodies Directed to Fucoidan Preparations from Brown Algae. PLoS ONE, 2015, 10, e0118366.	2.5	56
14	Expression profiling of Chondrus crispus (Rhodophyta) after exposure to methyl jasmonate. Journal of Experimental Botany, 2006, 57, 3869-3881.	4.8	55
15	MARINE-EXPRESS: taking advantage of high throughput cloning and expression strategies for the post-genomic analysis of marine organisms. Microbial Cell Factories, 2010, 9, 45.	4.0	55
16	Monoclonal Antibodies, Carbohydrate-Binding Modules, and the Detection of Polysaccharides in Plant Cell Walls. Methods in Molecular Biology, 2011, 715, 103-113.	0.9	43
17	The cell-wall active mannuronan C5-epimerases in the model brown alga<i>Ectocarpus</i>: From gene context to recombinant protein. Glycobiology, 2016, 26, 973-983.	2.5	38
18	Chondrus crispus â€“ A Present and Historical Model Organism for Red Seaweeds. Advances in Botanical Research, 2014, 71, 53-89.	1.1	37

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19	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
20	Dynamics of cell wall assembly during early embryogenesis in the brown alga<i>Fucus</i>. Journal of Experimental Botany, 2016, 67, 6089-6100.	4.8	34
21	Discovery and screening of novel metagenomeâ€derived <scp>GH</scp>107 enzymes targeting sulfated fucans from brown algae. FEBS Journal, 2018, 285, 4281-4295.	4.7	31
22	The genome of Ectocarpus subulatus â€“ A highly stress-tolerant brown alga. Marine Genomics, 2020, 52, 100740.	1.1	26
23	High-Energy Photon Activation Tandem Mass Spectrometry Provides Unprecedented Insights into the Structure of Highly Sulfated Oligosaccharides Extracted from Macroalgal Cell Walls. Analytical Chemistry, 2015, 87, 1042-1049.	6.5	24
24	Online coupling of high-resolution chromatography with extreme UV photon activation tandem mass spectrometry: Application to the structural investigation of complex glycans by dissociative photoionization. Analytica Chimica Acta, 2016, 933, 1-9.	5.4	24
25	New members of the glutathione transferase family discovered in red and brown algae. Biochemical Journal, 2008, 412, 535-544.	3.7	23
26	Double blind microarray-based polysaccharide profiling enables parallel identification of uncharacterized polysaccharides and carbohydrate-binding proteins with unknown specificities. Scientific Reports, 2018, 8, 2500.	3.3	18
27	Attachment, penetration and early host defense mechanisms during the infection of filamentous brown algae by Eurychasma dicksonii. Protoplasma, 2015, 252, 845-856.	2.1	14
28	RT-qPCR Normalization Genes in the Red Alga Chondrus crispus. PLoS ONE, 2014, 9, e86574.	2.5	11
29	Presence of Exogenous Sulfate Is Mandatory for Tip Growth in the Brown Alga Ectocarpus subulatus. Frontiers in Plant Science, 2020, 11, 1277.	3.6	7
30	Assembly and synthesis of the extracellular matrix in brown algae. Seminars in Cell and Developmental Biology, 2023, 134, 112-124.	5.0	6
31	Monoclonal Antibodies, Carbohydrate-Binding Modules, and Detection of Polysaccharides in Cell Walls from Plants and Marine Algae. Methods in Molecular Biology, 2020, 2149, 351-364.	0.9	4
32	Microarray Glycan Profiling Reveals Algal Fucoidan Epitopes in Diverse Marine Metazoans. Frontiers in Marine Science, 2017, 4, .	2.5	3
33	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
34	Changes in Cell Wall Structure During Rhizoid Formation of Silvetia babingtonii (Fucales,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (	2.3	3
35	Isolation of Fucus serratus Gametes and Cultivation of the Zygotes. Bio-protocol, 2017, 7, e2408.	0.4	3
36	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