

Cecile Herve

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

36
papers

2,220
citations

20
h-index

37
g-index

37
ext. papers

2,722
ext. citations

5.8
avg, IF

4.49
L-index

#	Paper	IF	Citations
36	Evolution and diversity of plant cell walls: from algae to flowering plants. <i>Annual Review of Plant Biology</i> , 2011 , 62, 567-90	30.7	455
35	Pectic homogalacturonan masks abundant sets of xyloglucan epitopes in plant cell walls. <i>BMC Plant Biology</i> , 2008 , 8, 60	5.3	291
34	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, 5247-52	11.5	239
33	Carbohydrate-binding modules promote the enzymatic deconstruction of intact plant cell walls by targeting and proximity effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 15293-8	11.5	177
32	Chemical and enzymatic fractionation of cell walls from Fucales: insights into the structure of the extracellular matrix of brown algae. <i>Annals of Botany</i> , 2014 , 114, 1203-16	4.1	164
31	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	10.3	132
30	Evidence that family 35 carbohydrate binding modules display conserved specificity but divergent function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3065-70	11.5	89
29	NADPH oxidases in Eukaryotes: red algae provide new hints!. <i>Current Genetics</i> , 2006 , 49, 190-204	2.9	73
28	Enzymatic treatments reveal differential capacities for xylan recognition and degradation in primary and secondary plant cell walls. <i>Plant Journal</i> , 2009 , 58, 413-22	6.9	68
27	Expression profiling of <i>Chondrus crispus</i> (Rhodophyta) after exposure to methyl jasmonate. <i>Journal of Experimental Botany</i> , 2006 , 57, 3869-81	7	52
26	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. <i>New Phytologist</i> , 2016 , 209, 1428-41	9.8	48
25	Insoluble (1- β), (1- ψ)-D-glucan is a component of cell walls in brown algae (Phaeophyceae) and is masked by alginates in tissues. <i>Scientific Reports</i> , 2017 , 7, 2880	4.9	46
24	MARINE-EXPRESS: taking advantage of high throughput cloning and expression strategies for the post-genomic analysis of marine organisms. <i>Microbial Cell Factories</i> , 2010 , 9, 45	6.4	44
23	Monoclonal antibodies directed to fucoidan preparations from brown algae. <i>PLoS ONE</i> , 2015 , 10, e0118366	3.6	40
22	Monoclonal antibodies, carbohydrate-binding modules, and the detection of polysaccharides in plant cell walls. <i>Methods in Molecular Biology</i> , 2011 , 715, 103-13	1.4	40
21	Sweet and sour sugars from the sea: the biosynthesis and remodeling of sulfated cell wall polysaccharides from marine macroalgae. <i>Perspectives in Phycology</i> , 2015 , 2, 51-64	3.1	38
20	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, 565-75	5	32

19	The cell-wall active mannuronan C5-epimerases in the model brown alga <i>Ectocarpus</i> : From gene context to recombinant protein. <i>Glycobiology</i> , 2016 , 26, 973-983	5.8	22
18	<i>Chondrus crispus</i> [A Present and Historical Model Organism for Red Seaweeds. <i>Advances in Botanical Research</i> , 2014 , 71, 53-89	2.2	22
17	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. <i>Analytica Chimica Acta</i> , 2016 , 933, 1-9	6.6	20
16	High-energy photon activation tandem mass spectrometry provides unprecedented insights into the structure of highly sulfated oligosaccharides extracted from macroalgal cell walls. <i>Analytical Chemistry</i> , 2015 , 87, 1042-9	7.8	20
15	Dynamics of cell wall assembly during early embryogenesis in the brown alga <i>Fucus</i> . <i>Journal of Experimental Botany</i> , 2016 , 67, 6089-6100	7	20
14	New members of the glutathione transferase family discovered in red and brown algae. <i>Biochemical Journal</i> , 2008 , 412, 535-44	3.8	18
13	Discovery and screening of novel metagenome-derived GH107 enzymes targeting sulfated fucans from brown algae. <i>FEBS Journal</i> , 2018 , 285, 4281-4295	5.7	16
12	The genome of <i>Ectocarpus subulatus</i> - A highly stress-tolerant brown alga. <i>Marine Genomics</i> , 2020 , 52, 100740	1.9	14
11	Attachment, penetration and early host defense mechanisms during the infection of filamentous brown algae by <i>Eurychasma dicksonii</i> . <i>Protoplasma</i> , 2015 , 252, 845-56	3.4	11
10	Double blind microarray-based polysaccharide profiling enables parallel identification of uncharacterized polysaccharides and carbohydrate-binding proteins with unknown specificities. <i>Scientific Reports</i> , 2018 , 8, 2500	4.9	10
9	RT-qPCR normalization genes in the red alga <i>Chondrus crispus</i> . <i>PLoS ONE</i> , 2014 , 9, e86574	3.7	8
8	Microarray Glycan Profiling Reveals Algal Fucoidan Epitopes in Diverse Marine Metazoans. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	3
7	The genome of <i>Ectocarpus subulatus</i> [a highly stress-tolerant brown alga		2
6	Monoclonal Antibodies, Carbohydrate-Binding Modules, and Detection of Polysaccharides in Cell Walls from Plants and Marine Algae. <i>Methods in Molecular Biology</i> , 2020 , 2149, 351-364	1.4	2
5	Isolation of Gametes and Cultivation of the Zygotes. <i>Bio-protocol</i> , 2017 , 7, e2408	0.9	1
4	Production and Bioassay of a Diffusible Factor That Induces Gametophyte-to-Sporophyte Developmental Reprogramming in the Brown Alga. <i>Bio-protocol</i> , 2020 , 10, e3753	0.9	1
3	Presence of Exogenous Sulfate Is Mandatory for Tip Growth in the Brown Alga. <i>Frontiers in Plant Science</i> , 2020 , 11, 1277	6.2	1
2	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	3	1

1 Changes in Cell Wall Structure During Rhizoid Formation of *Silvetia babingtonii* (Fucales, Phaeophyceae) Zygotes. *Journal of Phycology*, **2021**, 57, 1356-1367

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