Sylvain Aubry

List of Publications by Year
in descending order

32	2,724	304743 22	414414 32
papers	citations	h-index	g-index

37	37	37	3008
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pheophytin Pheophorbide Hydrolase (Pheophytinase) Is Involved in Chlorophyll Breakdown during Leaf Senescence in Arabidopsis Â Â. Plant Cell, 2009, 21, 767-785.	6.6	513
2	Chlorophyll Breakdown in Senescent Arabidopsis Leaves. Characterization of Chlorophyll Catabolites and of Chlorophyll Catabolic Enzymes Involved in the Degreening Reaction. Plant Physiology, 2005, 139, 52-63.	4.8	278
3	In Vivo Participation of Red Chlorophyll Catabolite Reductase in Chlorophyll Breakdown. Plant Cell, 2007, 19, 369-387.	6.6	215
4	Cross-Species Identification of Mendel's I Locus. Science, 2007, 315, 73-73.	12.6	168
5	The role of proteins in C3 plants prior to their recruitment into the C4 pathway. Journal of Experimental Botany, 2011, 62, 3049-3059.	4.8	168
6	Deep Evolutionary Comparison of Gene Expression Identifies Parallel Recruitment of Trans-Factors in Two Independent Origins of C4 Photosynthesis. PLoS Genetics, 2014, 10, e1004365.	3.5	165
7	From crop to model to crop: identifying the genetic basis of the staygreen mutation in the Lolium / Festuca forage and amenity grasses. New Phytologist, 2006, 172, 592-597.	7.3	98
8	Evolution of GOLDEN2-LIKE gene function in C3 and C4 plants. Planta, 2013, 237, 481-495.	3.2	98
9	Stay-green protein, defective in Mendelâ€™s green cotyledon mutant, acts independent and upstream of pheophorbide a oxygenase in the chlorophyll catabolic pathway. Plant Molecular Biology, 2008, 67, 243-256.	3.9	96
10	Arabidopsis uses two gluconeogenic gateways for organic acids to fuel seedling establishment. Nature Communications, 2015, 6, 6659.	12.8	95
11	Accumulation of chlorophyll catabolites photosensitizes the hypersensitive response elicited by Pseudomonas syringae in Arabidopsis. New Phytologist, 2010, 188, 161-174.	7.3	91
12	MES16, a Member of the Methylesterase Protein Family, Specifically Demethylates Fluorescent Chlorophyll Catabolites during Chlorophyll Breakdown in Arabidopsis. Plant Physiology, 2012, 158, 628-641.	4.8	83
13	Transcript residency on ribosomes reveals a key role for the <scp>A</scp>rabidopsis thaliana bundle sheath in sulfur and glucosinolate metabolism. Plant Journal, 2014, 78, 659-673.	5.7	83
14	A Role for TIC55 as a Hydroxylase of Phyllobilins, the Products of Chlorophyll Breakdown during Plant Senescence. Plant Cell, 2016, 28, 2510-2527.	6.6	75
15	Molecular evolution of genes recruited into C4 photosynthesis. Trends in Plant Science, 2012, 17, 213-220.	8.8	73
16	An Untranslated cis-Element Regulates the Accumulation of Multiple C₄ Enzymes in Gynandropsis gynandra Mesophyll Cells. Plant Cell, 2016, 28, 454-465.	6.6	73
17	Circadian oscillations of cytosolic free calcium regulate the Arabidopsis circadian clock. Nature Plants, 2018, 4, 690-698.	9.3	65
18	Contribution of Untargeted Metabolomics for Future Assessment of Biotech Crops. Trends in Plant Science, 2018, 23, 1047-1056.	8.8	45

#	Article	IF	Citations
19	The Future of Digital Sequence Information for Plant Genetic Resources for Food and Agriculture. Frontiers in Plant Science, 2019, 10, 1046.	3.6	38
20	Non-specific activities of the major herbicide-resistance gene BAR. Nature Plants, 2017, 3, 937-945.	9.3	33
21	Pheophorbide a May Regulate Jasmonate Signaling during Dark-Induced Senescence. Plant Physiology, 2020, 182, 776-791.	4.8	32
22	A Specific Transcriptome Signature for Guard Cells from the C₄ Plant Gynandropsis gynandra. Plant Physiology, 2016, 170, 1345-1357.	4.8	29
23	Strigolactones Play an Important Role in Shaping Exodermal Morphology via a KAI2-Dependent Pathway. IScience, 2019, 17, 144-154.	4.1	24
24	The pyruvate, orthophosphate dikinase regulatory proteins of Arabidopsis are both bifunctional and interact with the catalytic and nucleotideâ€binding domains of pyruvate, orthophosphate dikinase. Plant Journal, 2011, 68, 1070-1080.	5.7	20
25	Post-transcriptional regulation of photosynthetic genes is a key driver of C₄leaf ontogeny. Journal of Experimental Botany, 2017, 68, 137-146.	4.8	16
26	Bringing access and benefit sharing into the digital age. Plants People Planet, 2022, 4, 5-12.	3.3	11
27	Evolution of chlorophyll degradation is associated with plant transition to land. Plant Journal, 2022, 109, 1473-1488.	5.7	10
28	Endoreduplication is not involved in bundle-sheath formation in the C4 species Cleome gynandra. Journal of Experimental Botany, 2014, 65, 3557-3566.	4.8	7
29	Genetically modified crops in Switzerland: implications for agrosystem sustainability evidenced by multi-criteria model. Agronomy for Sustainable Development, 2016, 36, 1.	5.3	7
30	An evergreen mind and a heart for the colors of fall. Journal of Experimental Botany, 2021, 72, 4625-4633.	4.8	4
31	De novo transcriptome assembly data of the marine bioluminescent dinoflagellate Pyrocystis lunula. Data in Brief, 2021, 37, 107254.	1.0	3
32	Chapter 10. Omics-based Detection, Identification and Quantification of GM Food and Feed: Current Challenges and Perspectives. Food Chemistry, Function and Analysis, 2021, , 257-270.	0.2	1