Olivier Vallon

List of Publications by Year
in descending order

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44 papers	5,644 citations	201674 27 h-index	254184 43 g-index
47 all docs	47 docs citations	47 times ranked	6069 citing authors

#	Article	IF	Citations
1	The Chlamydomonas Genome Reveals the Evolution of Key Animal and Plant Functions. Science, 2007, 318, 245-250.	12.6	2,354
2	The tiny eukaryote Ostreococcus provides genomic insights into the paradox of plankton speciation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7705-7710.	7.1	563
3	PredAlgo: A New Subcellular Localization Prediction Tool Dedicated to Green Algae. Molecular Biology and Evolution, 2012, 29, 3625-3639.	8.9	270
4	Chloroplast and Mitochondrial Proteases in Arabidopsis. A Proposed Nomenclature. Plant Physiology, 2001, 125, 1912-1918.	4.8	205
5	Insights into the Survival of Chlamydomonas reinhardtii during Sulfur Starvation Based on Microarray Analysis of Gene Expression. Eukaryotic Cell, 2004, 3, 1331-1348.	3.4	181
6	Evidence for a Role of ClpP in the Degradation of the Chloroplast Cytochrome b6f Complex. Plant Cell, 2000, 12, 137-149.	6.6	152
7	The Chlamydomonas genome project: a decade on. Trends in Plant Science, 2014, 19, 672-680.	8.8	145
8	Chlamydomonas reinhardtii at the Crossroads of Genomics. Eukaryotic Cell, 2003, 2, 1137-1150.	3.4	143
9	Control of protein life-span by N-terminal methionine excision. EMBO Journal, 2003, 22, 13-23.	7.8	134
10	MRL1, a Conserved Pentatricopeptide Repeat Protein, Is Required for Stabilization of rbcL mRNA in Chlamydomonas and Arabidopsis Â Â. Plant Cell, 2010, 22, 234-248.	6.6	121
11	Synthesis, assembly and degradation of thylakoid membrane proteins. Biochimie, 2000, 82, 615-634.	2.6	119
12	Sequence elements within an HSP70 promoter counteract transcriptional transgene silencing in Chlamydomonas. Plant Journal, 2002, 31, 445-455.	5.7	112
13	Nitric Oxideâ€“Triggered Remodeling of Chloroplast Bioenergetics and Thylakoid Proteins upon Nitrogen Starvation inChlamydomonas reinhardtiiÂ. Plant Cell, 2014, 26, 353-372.	6.6	110
14	Extensive accumulation of an extracellular l-amino-acid oxidase during gametogenesis of Chlamydomonas reinhardtii. FEBS Journal, 1993, 215, 351-360.	0.2	100
15	New sequence motifs in flavoproteins: Evidence for common ancestry and tools to predict structure. , 2000, 38, 95-114.		95
16	The Light Sensitivity of ATP Synthase Mutants ofChlamydomonas reinhardtii. Plant Physiology, 2001, 126, 421-433.	4.8	70
17	Intertwined translational regulations set uneven stoichiometry of chloroplast ATP synthase subunits. EMBO Journal, 2007, 26, 3581-3591.	7.8	60
18	Small RNA profiling in Chlamydomonas: insights into chloroplast RNA metabolism. Nucleic Acids Research, 2017, 45, 10783-10799.	14.5	54

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19	Novel Shuttle Markers for Nuclear Transformation of the Green Alga Chlamydomonas reinhardtii. Eukaryotic Cell, 2011, 10, 1670-1678.	3.4	53
20	Dynamics of postâ€translational modifications and protein stability in the stroma of Chlamydomonas reinhardtii chloroplasts. Proteomics, 2011, 11, 1734-1750.	2.2	51
21	Chlamydomonas Immunophilins and Parvulins: Survey and Critical Assessment of Gene Models. Eukaryotic Cell, 2005, 4, 230-241.	3.4	41
22	Dissecting the Heat Stress Response in Chlamydomonas by Pharmaceutical and RNAi Approaches Reveals Conserved and Novel Aspects. Molecular Plant, 2013, 6, 1795-1813.	8.3	39
23	Spontaneous Dominant Mutations in Chlamydomonas Highlight Ongoing Evolution by Gene Diversification. Plant Cell, 2015, 27, 984-1001.	6.6	35
24	EST assembly supported by a draft genome sequence: an analysis of the Chlamydomonas reinhardtii transcriptome. Nucleic Acids Research, 2007, 35, 2074-2083.	14.5	34
25	PPR proteins of green algae. RNA Biology, 2013, 10, 1526-1542.	3.1	34
26	PETOÂInteracts with Other Effectors of Cyclic Electron Flow in Chlamydomonas. Molecular Plant, 2016, 9, 558-568.	8.3	34
27	The chloroplast ClpP complex in Chlamydomonas reinhardtii contains an unusual high molecular mass subunit with a large apical domain. FEBS Journal, 2005, 272, 5558-5571.	4.7	32
28	Two Chlamydomonas OPR proteins stabilize chloroplast mRNAs encoding small subunits of photosystem II and cytochrome b₆f. Plant Journal, 2015, 82, 861-873.	5.7	31
29	Polycytidylation of mitochondrial mRNAs in Chlamydomonas reinhardtii. Nucleic Acids Research, 2017, 45, 12963-12973.	14.5	29
30	Development of a Nuclear Transformation System for Oleaginous Green Alga Lobosphaera (Parietochloris) incisa and Genetic Complementation of a Mutant Strain, Deficient in Arachidonic Acid Biosynthesis. PLoS ONE, 2014, 9, e105223.	2.5	29
31	Defects in the Cytochrome b6/f Complex Prevent Light-Induced Expression of Nuclear Genes Involved in Chlorophyll Biosynthesis. Plant Physiology, 2006, 141, 1128-1137.	4.8	27
32	Genomewide Analysis of Box C/D and Box H/ACA snoRNAs in Chlamydomonas reinhardtii Reveals an Extensive Organization Into Intronic Gene Clusters. Genetics, 2008, 179, 21-30.	2.9	27
33	Topological study of PSI-A and PSI-B, the large subunits of the photosystem-I reaction center. FEBS Journal, 1993, 214, 907-915.	0.2	22
34	A Small Multifunctional Pentatricopeptide Repeat Protein in the Chloroplast of Chlamydomonas reinhardtii. Molecular Plant, 2015, 8, 412-426.	8.3	19
35	The purification of the Chlamydomonas reinhardtii chloroplast ClpP complex: additional subunits and structural features. Plant Molecular Biology, 2012, 80, 189-202.	3.9	18
36	In silico analysis of the sequence features responsible for alternatively spliced introns in the model green alga Chlamydomonas reinhardtii. Plant Molecular Biology, 2017, 94, 253-265.	3.9	16

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37	Multistep Processing of an Insertion Sequence in an Essential Subunit of the Chloroplast ClpP Complex. Journal of Biological Chemistry, 2009, 284, 15408-15415.	3.4	14
38	MDA1, a nucleusâ€encoded factor involved in the stabilization and processing of theatpAtranscript in the chloroplast of Chlamydomonas. Plant Journal, 2019, 98, 1033-1047.	5.7	14
39	Architecture and evolution of subtelomeres in the unicellular green algaChlamydomonas reinhardtii. Nucleic Acids Research, 2021, 49, 7571-7587.	14.5	14
40	A Chloroplast-Targeted Heat Shock Protein 70 (HSP70) Contributes to the Photoprotection and Repair of Photosystem II during and after Photoinhibition. Plant Cell, 1999, 11, 1165.	6.6	13
41	Mutants of Chlamydomonas: Tools to study thylakoid membrane structure, function and biogenesis. Biochimie, 1999, 81, 631-643.	2.6	12
42	Treasure Hunting in the Chlamydomonas Genome. Genetics, 2008, 179, 3-6.	2.9	6
43	The cryo-EM structure of the chloroplast ClpP complex. Nature Plants, 2021, 7, 1505-1515.	9.3	5
44	Phylogenetic and functional diversity of aldehyde-alcohol dehydrogenases in microalgae. Plant Molecular Biology, 2021, 105, 497-511.	3.9	4