Daniel A Chamovitz

List of Publications by Year
in descending order

84 papers	5,354 citations	94433 37 h-index	85541 71 g-index
170 all docs	170 docs citations	170 times ranked	5027 citing authors

#	Article	IF	Citations
1	Wild emmer genome architecture and diversity elucidate wheat evolution and domestication. Science, 2017, 357, 93-97.	12.6	781
2	Arabidopsis COP9 is a component of a novel signaling complex mediating light control of development. Cell, 1994, 78, 117-124.	28.9	380
3	The COP9 Complex, a Novel Multisubunit Nuclear Regulator Involved in Light Control of a Plant Developmental Switch. Cell, 1996, 86, 115-121.	28.9	319
4	Molecular structure and enzymatic function of lycopene cyclase from the cyanobacterium Synechococcus sp strain PCC7942.. Plant Cell, 1994, 6, 1107-1121.	6.6	249
5	A single polypeptide catalyzing the conversion of phytoene to zeta-carotene is transcriptionally regulated during tomato fruit ripening.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 4962-4966.	7.1	190
6	JAB1/CSN5 and the COP9 signalosome. EMBO Reports, 2001, 2, 96-101.	4.5	164
7	Arabidopsis Homologs of a c-Jun Coactivator Are Present Both in Monomeric Form and in the COP9 Complex, and Their Abundance Is Differentially Affected by the Pleiotropic cop/det/fus Mutations. Plant Cell, 1998, 10, 1779-1790.	6.6	156
8	The COP9 signalosome is essential for development of Drosophila melanogaster. Current Biology, 1999, 9, 1187-S4.	3.9	152
9	Molecular cloning and expression in photosynthetic bacteria of a soybean cDNA coding for phytoene desaturase, an enzyme of the carotenoid biosynthesis pathway.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 6532-6536.	7.1	151
10	The molecular basis of resistance to the herbicide norflurazon. Plant Molecular Biology, 1991, 16, 967-974.	3.9	143
11	Unified nomenclature for the COP9 signalosome and its subunits: an essential regulator of development. Trends in Genetics, 2000, 16, 202-203.	6.7	136
12	COP9 signalosome subunits 4 and 5 regulate multiple pleiotropic pathways inDrosophila melanogaster. Development (Cambridge), 2002, 129, 4399-4409.	2.5	116
13	Cloning and functional expression inEscherichia coliof a cyanobacterial gene for lycopene cyclase, the enzyme that catalyzes the biosynthesis of Î²-carotene. FEBS Letters, 1993, 328, 130-138.	2.8	105
14	Revisiting the COP9 signalosome as a transcriptional regulator. EMBO Reports, 2009, 10, 352-358.	4.5	99
15	The glucosinolate breakdown product indoleâ€šâ€carbinol acts as an auxin antagonist in roots of <scp>A</scp>rabidopsis thaliana. Plant Journal, 2015, 82, 547-555.	5.7	98
16	Carotenoids in Cyanobacteria. , 1994, , 559-579.		97
17	Molecular cloning and expression inEscherichia coliof a cyanobacterial gene coding for phytoene synthase, a carotenoid biosynthesis enzyme. FEBS Letters, 1992, 296, 305-310.	2.8	93
18	Drosophila JAB1/CSN5 Acts in Photoreceptor Cells to Induce Glial Cells. Neuron, 2002, 33, 35-46.	8.1	88

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19	Translational Regulation via 5â€² mRNA Leader Sequences Revealed by Mutational Analysis of the Arabidopsis Translation Initiation Factor Subunit eIF3h. Plant Cell, 2004, 16, 3341-3356.	6.6	87
20	Functional Complementation in Escherichia coli of Different Phytoene Desaturase Genes and Analysis of Accumulated Carotenes. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1991, 46, 1045-1051.	1.4	86
21	Flowers respond to pollinator sound within minutes by increasing nectar sugar concentration. Ecology Letters, 2019, 22, 1483-1492.	6.4	79
22	PCI complexes: pretty complex interactions in diverse signaling pathways. Trends in Plant Science, 2001, 6, 379-386.	8.8	78
23	Arabidopsis eIF3e (INT-6) Associates with Both eIF3c and the COP9 Signalosome Subunit CSN7. Journal of Biological Chemistry, 2001, 276, 334-340.	3.4	74
24	Arabidopsis FUSCA5 Encodes a Novel Phosphoprotein That Is a Component of the COP9 Complex. Plant Cell, 1999, 11, 839-848.	6.6	72
25	Analyzing growing plants from 4D point cloud data. ACM Transactions on Graphics, 2013, 32, 1-10.	7.2	71
26	COP9 signalosome subunits 4 and 5 regulate multiple pleiotropic pathways in Drosophila melanogaster. Development (Cambridge), 2002, 129, 4399-409.	2.5	69
27	The Arabidopsis COP9 Signalosome Subunit 7 Is a Model PCI Domain Protein with Subdomains Involved in COP9 Signalosome Assembly. Plant Cell, 2008, 20, 2815-2834.	6.6	59
28	The novel components of the arabidopsis light signaling pathway may define a group of general developmental regulators shared by both animal and plant kingdoms. Cell, 1995, 82, 353-354.	28.9	58
29	Dissection of the Light Signal Transduction Pathways Regulating the TwoEarly Light-Induced ProteinGenes in Arabidopsis. Plant Physiology, 2001, 127, 986-997.	4.8	55
30	TheArabidopsishomologue of an eIF3 complex subunit associates with the COP9 complex1. FEBS Letters, 1998, 439, 173-179.	2.8	52
31	COP9 signalosome subunit 5 (CSN5/Jab1) regulates the development of the Drosophila immune system: effects on Cactus, Dorsal and hematopoiesis. Genes To Cells, 2007, 12, 183-195.	1.2	51
32	Protein competition switches the function of COP9 from self-renewal to differentiation. Nature, 2014, 514, 233-236.	27.8	51
33	Indole-3-carbinol: a plant hormone combatting cancer. F1000Research, 2018, 7, 689.	1.6	51
34	The COP9 Signalosome: Mediating Between Kinase Signaling and Protein Degradation. Current Protein and Peptide Science, 2004, 5, 185-189.	1.4	49
35	Arabidopsis eIF3e is regulated by the COP9 signalosome and has an impact on development and protein translation. Plant Journal, 2008, 53, 300-311.	5.7	47
36	Cloning a Gene Coding for Norflurazon Resistance in Cyanobacteria. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1990, 45, 482-486.	1.4	45

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37	The COP9 signalosome: from light signaling to general developmental regulation and back. Current Opinion in Plant Biology, 2000, 3, 387-393.	7.1	45
38	Light signaling in plants. Critical Reviews in Plant Sciences, 1996, 15, 455-478.	5.7	41
39	Genomic analysis of COP9 signalosome function in Drosophila melanogaster reveals a role in temporal regulation of gene expression. Molecular Systems Biology, 2007, 3, 108.	7.2	41
40	Biochemical characterization of Synechococcus mutants selected against the bleaching herbicide norflurazon. Pesticide Biochemistry and Physiology, 1990, 36, 46-51.	3.6	38
41	Large-scale analysis of Arabidopsis transcription reveals a basal co-regulation network. BMC Systems Biology, 2009, 3, 86.	3.0	38
42	The COP9 signalosome. Current Biology, 2002, 12, R232.	3.9	34
43	The COP9 Signalosome Is Required for Light-Dependent Timeless Degradation and Drosophila Clock Resetting. Journal of Neuroscience, 2009, 29, 1152-1162.	3.6	33
44	Cop9 signalosome subunit 8 (CSN8) is essential for Drosophila development. Genes To Cells, 2008, 13, 221-231.	1.2	32
45	The COP9 signalosome is vital for timely repair of DNA double-strand breaks. Nucleic Acids Research, 2015, 43, 4517-4530.	14.5	32
46	Protein Homeostasis: A Degrading Role for Int6/eIF3e. Current Biology, 2003, 13, R323-R325.	3.9	30
47	The Organization of a CSN5-containing Subcomplex of the COP9 Signalosome. Journal of Biological Chemistry, 2012, 287, 42031-42041.	3.4	25
48	Plants are intelligent; now what?. Nature Plants, 2018, 4, 622-623.	9.3	24
49	Role of Cop9 Signalosome Subunits in the Environmental and Hormonal Balance of Plant. Biomolecules, 2019, 9, 224.	4.0	22
50	Arabidopsis eIF3e interacts with subunits of the ribosome, Cop9 signalosome and proteasome. Plant Signaling and Behavior, 2008, 3, 409-411.	2.4	21
51	What a Plant Smells. Scientific American, 2012, 306, 62-65.	1.0	21
52	The effect of indole-3-carbinol on PIN1 and PIN2 in Arabidopsis roots. Plant Signaling and Behavior, 2015, 10, e1062200.	2.4	20
53	Wounding of Arabidopsis leaves induces indoleâ€3â€carbinolâ€dependent autophagy in roots of Arabidopsis thaliana. Plant Journal, 2017, 91, 779-787.	5.7	20
54	Drosophila COP9 signalosome subunit 7 interacts with multiple genomic loci to regulate development. Nucleic Acids Research, 2014, 42, 9761-9770.	14.5	18

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55	Identification of a Light-regulated Protein Kinase Activity from Seedlings of Arabidopsis thalianaÂ¶. Photochemistry and Photobiology, 2002, 75, 178.	2.5	17
56	A mutation in the tomatoDDB1gene affects cell and chloroplast compartment size and CDT1 transcript. Plant Signaling and Behavior, 2008, 3, 641-649.	2.4	17
57	The COP9 complex: a link between photomorphogenesis and general developmental regulation?. Plant, Cell and Environment, 1997, 20, 734-739.	5.7	15
58	CSN5A Subunit of COP9 Signalosome Is Required for Resetting Transcriptional Stress Memory after Recurrent Heat Stress in Arabidopsis. Biomolecules, 2021, 11, 668.	4.0	12
59	Growth suppression induced by the TRC8 hereditary kidney cancer gene is dependent upon JAB1/CSN5. Oncogene, 2005, 24, 3503-3511.	5.9	11
60	COP9 signalosome subunit 7 from Arabidopsis interacts with and regulates the small subunit of ribonucleotide reductase (RNR2). Plant Molecular Biology, 2011, 77, 77-89.	3.9	11
61	Multidimensional patterns of metabolic response in abiotic stress-induced growth of Arabidopsis thaliana. Plant Molecular Biology, 2016, 92, 689-699.	3.9	11
62	CSN5A Subunit of COP9 Signalosome Temporally Buffers Response to Heat in Arabidopsis. Biomolecules, 2019, 9, 805.	4.0	10
63	The Proto-Oncogene Int6 Is Essential for Neddylation of Cul1 and Cul3 in Drosophila. PLoS ONE, 2008, 3, e2239.	2.5	9
64	The COP9 signalosome influences the epigenetic landscape of Arabidopsis thaliana. Bioinformatics, 2019, 35, 2718-2723.	4.1	9
65	Characterization and Purification of Kinase Activities against Arabidopsis COP9 Signalosome Subunit 7. Israel Journal of Chemistry, 2006, 46, 239-246.	2.3	7
66	Rooted in Sensation: Taste. New Scientist, 2012, 215, 37.	0.0	6
67	Dissection of the Light Signal Transduction Pathways Regulating the Two Early Light-Induced Protein Genes in Arabidopsis. Plant Physiology, 2001, 127, 986-997.	4.8	5
68	Molecular Characterization of Carotenoid Biosynthesis in Plants: The Phytoene Desaturase Gene in Tomato. , 1992, , 11-18.		4
69	Ulvan crude extractâ€™s chemical and biophysical profile and its effect as a biostimulant on Arabidopsis thaliana. Algal Research, 2022, 62, 102609.	4.6	4
70	A Systems Approach to the COP9 Signalosome. Plant Physiology, 2003, 132, 426-427.	4.8	3
71	Arabidopsis Homologs of a c-Jun Coactivator Are Present Both in Monomeric Form and in the COP9 Complex, and Their Abundance Is Differentially Affected by the Pleiotropic cop/det/fus Mutations. Plant Cell, 1998, 10, 1779.	6.6	2
72	Expression, purification and crystallization of a PCI domain from the COP9 signalosome subunit 7 (CSN7). Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 1138-1140.	0.7	2

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73	Overexpression of the ribosomal S30 subunit leads to indoleâ€3â€carbinol tolerance in Arabidopsis thaliana. Plant Journal, 2021, 105, 668-677.	5.7	2
74	Arabidopsis FUSCA5 Encodes a Novel Phosphoprotein That Is a Component of the COP9 Complex. Plant Cell, 1999, 11, 839.	6.6	1
75	Carotenoids in Cyanobacteria. , 1994, , 559-579.		1
76	The PCI Complexes and the Ubiquitin Proteasome System (UPS) in Plant Development. , 0, , 273-306.		1
77	Lab Family Feud. Science, 2010, 330, 1177-1177.	12.6	1
78	Rooted in Sensation: The five sense of plants. New Scientist, 2012, 215, 34-35.	0.0	1
79	Rooted in Sensation: Hearing. New Scientist, 2012, 215, 37.	0.0	1
80	Rooted in Sensation: Sight. New Scientist, 2012, 215, 35.	0.0	1
81	What do plants really know?. Seminars in Cell and Developmental Biology, 2019, 92, 113.	5.0	1
82	Rooted in Sensation: Smell. New Scientist, 2012, 215, 36.	0.0	0
83	Rooted in Sensation: Touch. New Scientist, 2012, 215, 36.	0.0	0
84	Molecular Approaches to Biochemical Purification: The COP9 Complex Paradigm. , 1998, , 83-91.		0