

William M Gray

List of Publications by Year in descending order

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55
papers

8,892
citations

81839

39
h-index

161767

54
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59
all docs

59
docs citations

59
times ranked

7977
citing authors

#	ARTICLE	IF	CITATIONS
1	Auxin regulates SCFTIR1-dependent degradation of AUX/IAA proteins. <i>Nature</i> , 2001, 414, 271-276.	13.7	1,205
2	The TIR1 protein of <i>Arabidopsis</i> functions in auxin response and is related to human SKP2 and yeast Grr1p. <i>Genes and Development</i> , 1998, 12, 198-207.	2.7	582
3	High temperature promotes auxin-mediated hypocotyl elongation in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 7197-7202.	3.3	567
4	PHYTOCHROME-INTERACTING FACTOR 4 (PIF4) regulates auxin biosynthesis at high temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20231-20235.	3.3	562
5	Identification of an SCF ubiquitin-ligase complex required for auxin response in <i>Arabidopsis thaliana</i> . <i>Genes and Development</i> , 1999, 13, 1678-1691.	2.7	454
6	Interactions of the COP9 Signalosome with the E3 Ubiquitin Ligase SCFTIR1 in Mediating Auxin Response. <i>Science</i> , 2001, 292, 1379-1382.	6.0	451
7	Complex regulation of the TIR1/AFB family of auxin receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22540-22545.	3.3	403
8	SAUR Inhibition of PP2C-D Phosphatases Activates Plasma Membrane H ⁺ -ATPases to Promote Cell Expansion in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 2129-2142.	3.1	392
9	SAUR Proteins as Effectors of Hormonal and Environmental Signals in Plant Growth. <i>Molecular Plant</i> , 2015, 8, 1153-1164.	3.9	386
10	The SAUR19 subfamily of SMALL AUXIN UP RNA genes promote cell expansion. <i>Plant Journal</i> , 2012, 70, 978-990.	2.8	359
11	Auxin signaling. <i>Current Opinion in Plant Biology</i> , 2006, 9, 448-453.	3.5	248
12	Hormonal Regulation of Plant Growth and Development. <i>PLoS Biology</i> , 2004, 2, e311.	2.6	241
13	AXR1-ECR1-Dependent Conjugation of RUB1 to the Arabidopsis Cullin AtCUL1 Is Required for Auxin Response. <i>Plant Cell</i> , 2002, 14, 421-433.	3.1	221
14	<i>Arabidopsis</i> SGT1b Is Required for SCFTIR1-Mediated Auxin Response. <i>Plant Cell</i> , 2003, 15, 1310-1319.	3.1	194
15	<i>Arabidopsis</i> PIS1 encodes the ABCG37 transporter of auxinic compounds including the auxin precursor indole-3-butyric acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10749-10753.	3.3	183
16	Function of the ubiquitin-proteasome pathway in auxin response. <i>Trends in Biochemical Sciences</i> , 2000, 25, 133-138.	3.7	174
17	A Gain-of-Function Mutation in the Arabidopsis Pleiotropic Drug Resistance Transporter PDR9 Confers Resistance to Auxinic Herbicides. <i>Plant Physiology</i> , 2006, 142, 63-74.	2.3	147
18	Role of the Arabidopsis RING-H2 Protein RBX1 in RUB Modification and SCF Function. <i>Plant Cell</i> , 2002, 14, 2137-2144.	3.1	146

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19	Regulation of the plasma membrane proton pump (H ⁺ -ATPase) by phosphorylation. <i>Current Opinion in Plant Biology</i> , 2015, 28, 68-75.	3.5	142
20	Rapid Auxin-Mediated Cell Expansion. <i>Annual Review of Plant Biology</i> , 2020, 71, 379-402.	8.6	128
21	Cell surface and intracellular auxin signalling for H ⁺ fluxes in root growth. <i>Nature</i> , 2021, 599, 273-277.	13.7	128
22	TMK-based cell-surface auxin signalling activates cell-wall acidification. <i>Nature</i> , 2021, 599, 278-282.	13.7	125
23	Temperature-sensitive Yeast GPI Anchoring Mutants <i>gpi2</i> and <i>gpi3</i> Are Defective in the Synthesis of N-Acetylglucosaminyl Phosphatidylinositol. <i>Journal of Biological Chemistry</i> , 1995, 270, 13029-13035.	1.6	122
24	Arabidopsis ETA2, an Apparent Ortholog of the Human Cullin-Interacting Protein CAND1, Is Required for Auxin Responses Mediated by the SCFTIR1 Ubiquitin Ligase. <i>Plant Cell</i> , 2004, 16, 1883-1897.	3.1	104
25	A subset of plasma membrane-localized PP2C.D phosphatases negatively regulate SAUR-mediated cell expansion in Arabidopsis. <i>PLoS Genetics</i> , 2018, 14, e1007455.	1.5	92
26	Characterization of a novel temperature-sensitive allele of the CUL1/AXR6 subunit of SCF ubiquitin-ligases. <i>Plant Journal</i> , 2005, 43, 371-383.	2.8	81
27	BRASSINOSTEROID-SIGNALING KINASE 3, a plasma membrane-associated scaffold protein involved in early brassinosteroid signaling. <i>PLoS Genetics</i> , 2019, 15, e1007904.	1.5	76
28	A New CULLIN 1 Mutant Has Altered Responses to Hormones and Light in Arabidopsis. <i>Plant Physiology</i> , 2007, 143, 684-696.	2.3	74
29	Plant hormone receptors: new perceptions. <i>Genes and Development</i> , 2008, 22, 2139-2148.	2.7	67
30	Constitutive Expression of Arabidopsis <i>SMALL AUXIN UP RNA19</i> (<i>SAUR19</i>) in Tomato Confers Auxin-Independent Hypocotyl Elongation. <i>Plant Physiology</i> , 2017, 173, 1453-1462.	2.3	67
31	Arabidopsis <i>IAR4</i> Modulates Auxin Response by Regulating Auxin Homeostasis. <i>Plant Physiology</i> , 2009, 150, 748-758.	2.3	59
32	SECRET AGENT and SPINDLY have overlapping roles in the development of Arabidopsis thaliana L. Heyn. <i>Journal of Experimental Botany</i> , 2006, 57, 865-875.	2.4	56
33	Composition, Roles, and Regulation of Cullin-Based Ubiquitin E3 Ligases. <i>The Arabidopsis Book</i> , 2014, 12, e0175.	0.5	53
34	Genetic analysis of CAND1-CUL1 interactions in Arabidopsis supports a role for CAND1-mediated cycling of the SCF ^{TIR1} complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8470-8475.	3.3	50
35	Microscale analysis of amino acids using gas chromatography-mass spectrometry after methyl chloroformate derivatization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 2199-2208.	1.2	50
36	Activated Alleles of Yeast SLN1 Increase Mcm1-dependent Reporter Gene Expression and Diminish Signaling through the Hog1 Osmosensing Pathway. <i>Journal of Biological Chemistry</i> , 1997, 272, 13365-13371.	1.6	49

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37	SUGAR-INSENSITIVE3, a RING E3 Ligase, Is a New Player in Plant Sugar Response. <i>Plant Physiology</i> , 2010, 152, 1889-1900.	2.3	45
38	Measuring the turnover rates of Arabidopsis proteins using deuterium oxide: an auxin signaling case study. <i>Plant Journal</i> , 2010, 63, 680-695.	2.8	44
39	CUL1 regulates TOC1 protein stability in the Arabidopsis circadian clock. <i>Plant Journal</i> , 2008, 55, 568-579.	2.8	41
40	An automated growth enclosure for metabolic labeling of Arabidopsis thaliana with ¹³ C-carbon dioxide - an in vivo labeling system for proteomics and metabolomics research. <i>Proteome Science</i> , 2011, 9, 9.	0.7	37
41	Target specificity among canonical nuclear poly(A) polymerases in plants modulates organ growth and pathogen response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13994-13999.	3.3	36
42	SAUR proteins and PP2C.D phosphatases regulate H ⁺ -ATPases and K ⁺ channels to control stomatal movements. <i>Plant Physiology</i> , 2021, 185, 256-273.	2.3	35
43	The <i>Saccharomyces cerevisiae</i> SPT14 gene is essential for normal expression of the yeast transposon, Ty, as well as for expression of the HIS4 gene and several genes in the mating pathway. <i>Molecular Genetics and Genomics</i> , 1991, 230, 310-320.	2.4	33
44	Proteome Scale-Protein Turnover Analysis Using High Resolution Mass Spectrometric Data from Stable-Isotope Labeled Plants. <i>Journal of Proteome Research</i> , 2016, 15, 851-867.	1.8	33
45	Mutation of a Conserved Motif of PP2C.D Phosphatases Confers SAUR Immunity and Constitutive Activity. <i>Plant Physiology</i> , 2019, 181, 353-366.	2.3	29
46	Alternative Splicing of Arabidopsis IBR5 Pre-mRNA Generates Two IBR5 Isoforms with Distinct and Overlapping Functions. <i>PLoS ONE</i> , 2014, 9, e102301.	1.1	19
47	Biphasic control of cell expansion by auxin coordinates etiolated seedling development. <i>Science Advances</i> , 2022, 8, eabj1570.	4.7	19
48	Plant Defence: A New Weapon In The Arsenal. <i>Current Biology</i> , 2002, 12, R352-R354.	1.8	17
49	Type 2C protein phosphatase clade D family members dephosphorylate guard cell plasma membrane H ⁺ -ATPase. <i>Plant Physiology</i> , 2022, 188, 2228-2240.	2.3	15
50	The eta7/csn3-3 Auxin Response Mutant of Arabidopsis Defines a Novel Function for the CSN3 Subunit of the COP9 Signalosome. <i>PLoS ONE</i> , 2013, 8, e66578.	1.1	13
51	Phylogenetic footprinting reveals multiple regulatory elements involved in control of the meiotic recombination gene, REC102. <i>Yeast</i> , 2002, 19, 99-114.	0.8	11
52	Biochemical genetics of plant growth. <i>Current Opinion in Biotechnology</i> , 1998, 9, 196-201.	3.3	10
53	Auxin: Shape matters. <i>Nature Plants</i> , 2015, 1, 15097.	4.7	5
54	A plastidial retrograde signal potentiates biosynthesis of systemic stress response activators. <i>New Phytologist</i> , 2022, 233, 1732-1749.	3.5	4

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55	Auxin Signal Transduction. , 2010, , 282-307.		3