Peter Hedden

List of Publications by Year
in descending order

66	12,383	57758 44	106344 65
papers	citations	h-index	g-index

86	86	86	9992
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The genes of the Green Revolution. Trends in Genetics, 2003, 19, 5-9.	6.7	1,020
2	Gibberellin metabolism: new insights revealed by the genes. Trends in Plant Science, 2000, 5, 523-530.	8.8	908
3	The role of gibberellin signalling in plant responses to abiotic stress. Journal of Experimental Biology, 2014, 217, 67-75.	1.7	779
4	Gibberellin biosynthesis and its regulation. Biochemical Journal, 2012, 444, 11-25.	3.7	676
5	Genetic Characterization and Functional Analysis of the GID1 Gibberellin Receptors in Arabidopsis Â. Plant Cell, 2007, 18, 3399-3414.	6.6	665
6	The Cold-Inducible CBF1 Factorâ€“Dependent Signaling Pathway Modulates the Accumulation of the Growth-Repressing DELLA Proteins via Its Effect on Gibberellin Metabolism. Plant Cell, 2008, 20, 2117-2129.	6.6	658
7	KNOX Action in Arabidopsis Is Mediated by Coordinate Regulation of Cytokinin and Gibberellin Activities. Current Biology, 2005, 15, 1560-1565.	3.9	614
8	The Gibberellin Pathway Mediates KNOTTED1-Type Homeobox Function in Plants with Different Body Plans. Current Biology, 2002, 12, 1557-1565.	3.9	399
9	A Century of Gibberellin Research. Journal of Plant Growth Regulation, 2015, 34, 740-760.	5.1	396
10	Gibberellin as a factor in floral regulatory networks. Journal of Experimental Botany, 2009, 60, 1979-1989.	4.8	355
11	Constitutive expression of a fruit phytoene synthase gene in transgenic tomatoes causes dwarfism by redirecting metabolites from the gibberellin pathway. Plant Journal, 1995, 8, 693-701.	5.7	341
12	The gibberellin biosynthetic genes AtGA20ox1 and AtGA20ox2 act, partially redundantly, to promote growth and development throughout the Arabidopsis life cycle. Plant Journal, 2008, 53, 488-504.	5.7	333
13	Modification of gibberellin production and plant development in Arabidopsis by sense and antisenseâ€ƒexpression of gibberellin 20â€oxidase genes. Plant Journal, 1999, 17, 547-556.	5.7	275
14	Root growth in Arabidopsis requires gibberellin/DELLA signalling in the endodermis. Nature Cell Biology, 2008, 10, 625-628.	10.3	273
15	Genetic Analysis Reveals That C19-GA 2-Oxidation Is a Major Gibberellin Inactivation Pathway inArabidopsisÂ. Plant Cell, 2008, 20, 2420-2436.	6.6	269
16	Molecular Characterization ofRht-1Dwarfing Genes in Hexaploid Wheat Â Â Â Â. Plant Physiology, 2011, 157, 1820-1831.	4.8	266
17	Transcriptional Regulation of Gibberellin Metabolism Genes by Auxin Signaling in Arabidopsis. Plant Physiology, 2006, 142, 553-563.	4.8	255
18	Gibberellin Biosynthesis in Plants and Fungi: A Case of Convergent Evolution?. Journal of Plant Growth Regulation, 2001, 20, 319-331.	5.1	220

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19	Gibberellin control of stamen development: a fertile field. Trends in Plant Science, 2011, 16, 568-578.	8.8	195
20	Analysis of the Developmental Roles of the Arabidopsis Gibberellin 20-Oxidases Demonstrates That GA20ox1, -2, and -3 Are the Dominant Paralogs. Plant Cell, 2012, 24, 941-960.	6.6	172
21	The Current Status of Research on Gibberellin Biosynthesis. Plant and Cell Physiology, 2020, 61, 1832-1849.	3.1	172
22	The Rice YABBY1 Gene Is Involved in the Feedback Regulation of Gibberellin Metabolism. Plant Physiology, 2007, 144, 121-133.	4.8	168
23	Dioxygenase-encoding AtDAO1 gene controls IAA oxidation and homeostasis in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11016-11021.	7.1	162
24	Analysis of gibberellins as free acids by ultra performance liquid chromatographyâ€“tandem mass spectrometry. Talanta, 2013, 112, 85-94.	5.5	138
25	The SLENDER Gene of Pea Encodes a Gibberellin 2-Oxidase. Plant Physiology, 1999, 121, 775-781.	4.8	126
26	Gibberellin Concentration and Transport in Genetic Lines of Pea. Plant Physiology, 1992, 100, 1354-1360.	4.8	125
27	Comparison of Gibberellins in Normal and Slender Barley Seedlings. Plant Physiology, 1990, 94, 194-200.	4.8	118
28	Leaf-Induced Gibberellin Signaling Is Essential for Internode Elongation, Cambial Activity, and Fiber Differentiation in Tobacco Stems Â. Plant Cell, 2012, 24, 66-79.	6.6	117
29	Heterologous expression and transcript analysis of gibberellin biosynthetic genes of grasses reveals novel functionality in the GA3ox family. BMC Plant Biology, 2015, 15, 130.	3.6	115
30	The gibberellin precursor GA12 acts as a long-distance growth signal in Arabidopsis. Nature Plants, 2015, 1, 15073.	9.3	114
31	Function and transcript analysis of gibberellin-biosynthetic enzymes in wheat. Planta, 2006, 223, 568-582.	3.2	104
32	Elucidation of gibberellin biosynthesis in bacteria reveals convergent evolution. Nature Chemical Biology, 2017, 13, 69-74.	8.0	103
33	Function and Substrate Specificity of the Gibberellin 3Î²-Hydroxylase Encoded by the Arabidopsis GA4Gene1. Plant Physiology, 1998, 117, 559-563.	4.8	102
34	Characterization of the Final Two Genes of the Gibberellin Biosynthesis Gene Cluster of Gibberella fujikuroi. Journal of Biological Chemistry, 2003, 278, 28635-28643.	3.4	101
35	Genetic regulation of gibberellin deactivation in Pisum. Plant Journal, 1995, 7, 513-523.	5.7	92
36	Comparison of ent-kaurene and ent-isokaurene synthesis in cell-free systems from etiolated shoots of normal and dwarf-5 maize seedlings. Phytochemistry, 1979, 18, 1475-1479.	2.9	89

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37	The Gibberellin 20-Oxidase of Gibberella fujikuroi Is a Multifunctional Monooxygenase. Journal of Biological Chemistry, 2002, 277, 21246-21253.	3.4	86
38	Distribution of gibberellin biosynthetic genes and gibberellin production in the Gibberella fujikuroi species complex. Phytochemistry, 2005, 66, 1296-1311.	2.9	78
39	Biosynthesis of gibberellins A12, A15, A24, A36, and A37 by a cell-free system from Cucurbita maxima. Phytochemistry, 1974, 13, 1433-1440.	2.9	77
40	DELLA activity is required for successful pollen development in the Columbia ecotype of Arabidopsis. New Phytologist, 2014, 201, 825-836.	7.3	76
41	Isolation and Characterization of the Gibberellin Biosynthetic Gene Cluster in Sphaceloma manihoticola. Applied and Environmental Microbiology, 2008, 74, 5325-5339.	3.1	68
42	Gibberellin Metabolism and Its Regulation. Journal of Plant Growth Regulation, 2001, 20, 317-318.	5.1	59
43	Deletions in the Gibberellin Biosynthesis Gene Cluster of Gibberella fujikuroi by Restriction Enzyme-Mediated Integration and Conventional Transformation-Mediated Mutagenesis. Applied and Environmental Microbiology, 1999, 65, 2558-2564.	3.1	59
44	The oxidases of gibberellin biosynthesis: Their function and mechanism. Physiologia Plantarum, 1997, 101, 709-719.	5.2	44
45	Separation and characterisation of three 2-oxoglutarate-dependent dioxygenases from Cucurbita maxima L. endosperm involved in gibberellin biosynthesis. Planta, 1994, 195, 98.	3.2	43
46	The involvement of gibberellin signalling in the effect of soil resistance to root penetration on leaf elongation and tiller number in wheat. Plant and Soil, 2013, 371, 81-94.	3.7	43
47	Regulation of gibberellin biosynthesis in maize seedlings. Current Plant Science and Biotechnology in Agriculture, 1992, , 534-544.	0.0	41
48	Characterization of the Fungal Gibberellin Desaturase as a 2-Oxoglutarate-Dependent Dioxygenase and Its Utilization for Enhancing Plant Growth Â Â. Plant Physiology, 2012, 160, 837-845.	4.8	40
49	Kaurenolide biosynthesis in a cell-free system from Cucurbita maxima seeds. Phytochemistry, 1981, 20, 1011-1015.	2.9	38
50	Partial purification of two gibberellin 2Î²-hydroxylases from cotyledons of Phaseolus vulgaris. Phytochemistry, 1991, 30, 2507-2512.	2.9	34
51	Mapping sites of gibberellin biosynthesis in the Arabidopsis root tip. New Phytologist, 2021, 229, 1521-1534.	7.3	34
52	Kaurenoids and gibberellins, including the newly characterized gibberellin A88, in developing apple seeds. Phytochemistry, 1993, 32, 231-237.	2.9	33
53	Molecular characterisation of gibberellin 20-oxidases. Structure-function studies on recombinant enzymes and chimaeric proteins. Physiologia Plantarum, 1997, 100, 543-549.	5.2	30
54	Gibberellin oxidase activities in Bradyrhizobium japonicum bacteroids. Phytochemistry, 2014, 98, 101-109.	2.9	29

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55	Monooxygenases involved in GA12 and GA14 synthesis in Gibberella fujikuroi. Phytochemistry, 2001, 56, 505-511.	2.9	28
56	The ring contraction step in gibberellin biosynthesis. Journal of the Chemical Society Chemical Communications, 1975, , 161.	2.0	25
57	Nitrate signaling promotes plant growth by upregulating gibberellin biosynthesis and destabilization of DELLA proteins. Current Biology, 2021, 31, 4971-4982.e4.	3.9	25
58	Stereochemistry of the metabolic steps from kaurenoic acids to kaurenolides and gibberellins. Phytochemistry, 1990, 29, 1833-1839.	2.9	24
59	Quantitative analysis of gibberellins by isotope dilution mass spectrometry: A comparison of the use of calibration curves, an isotope dilution fit program and arithmetical correction of isotope ratios. Phytochemical Analysis, 1994, 5, 74-80.	2.4	24
60	Stereochemistry of the oxidation of gibberellin 20-alcohols, GA15 and GA44, to 20-aldehydes by gibberellin 20-oxidases. Chemical Communications, 1997, , 13-14.	4.1	24
61	Gibberellin 3-oxidases in developing embryos of the southern wild cucumber, Marah macrocarpus. Phytochemistry, 2010, 71, 2010-2018.	2.9	24
62	Influence of electron transport proteins on the reactions catalyzed by Fusarium fujikuroi gibberellin monooxygenases. Phytochemistry, 2008, 69, 672-683.	2.9	18
63	Quantifying the impact of exogenous abscisic acid and gibberellins on pre-maturity Î±-amylase formation in developing wheat grains. Scientific Reports, 2014, 4, 5355.	3.3	15
64	Changes in the concentrations and transcripts for gibberellins and other hormones in a growing leaf and roots of wheat seedlings in response to water restriction. BMC Plant Biology, 2022, 22, .	3.6	10
65	A novel gibberellin promotes seedling establishment. Nature Plants, 2019, 5, 459-460.	9.3	9
66	Jake MacMillan: A pioneering chemist in plant biology. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14641-14642.	7.1	0