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	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
2	Mapping sites of gibberellin biosynthesis in the Arabidopsis root tip. New Phytologist, 2021, 229, 1521-1534.	7.3	34
3	Nitrate signaling promotes plant growth by upregulating gibberellin biosynthesis and destabilization of DELLA proteins. Current Biology, 2021, 31, 4971-4982.e4.	3.9	25
4	The Current Status of Research on Gibberellin Biosynthesis. Plant and Cell Physiology, 2020, 61, 1832-1849.	3.1	172
5	A novel gibberellin promotes seedling establishment. Nature Plants, 2019, 5, 459-460.	9.3	9
6	Elucidation of gibberellin biosynthesis in bacteria reveals convergent evolution. Nature Chemical Biology, 2017, 13, 69-74.	8.0	103
7	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
8	The gibberellin precursor GA12 acts as a long-distance growth signal in Arabidopsis. Nature Plants, 2015, 1, 15073.	9.3	114
9	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
10	A Century of Gibberellin Research. Journal of Plant Growth Regulation, 2015, 34, 740-760.	5.1	396
11	DELLA activity is required for successful pollen development in the Columbia ecotype of Arabidopsis. New Phytologist, 2014, 201, 825-836.	7.3	76
12	Gibberellin oxidase activities in Bradyrhizobium japonicum bacteroids. Phytochemistry, 2014, 98, 101-109.	2.9	29
13	The role of gibberellin signalling in plant responses to abiotic stress. Journal of Experimental Biology, 2014, 217, 67-75.	1.7	779
14	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
15	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
16	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
17	Analysis of gibberellins as free acids by ultra performance liquid chromatographyâ€“tandem mass spectrometry. Talanta, 2013, 112, 85-94.	5.5	138
18	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

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19	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
20	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
21	Gibberellin biosynthesis and its regulation. Biochemical Journal, 2012, 444, 11-25.	3.7	676
22	Gibberellin control of stamen development: a fertile field. Trends in Plant Science, 2011, 16, 568-578.	8.8	195
23	Molecular Characterization ofRht-1Dwarfing Genes in Hexaploid Wheat Â Â Â Â. Plant Physiology, 2011, 157, 1820-1831.	4.8	266
24	Gibberellin 3-oxidases in developing embryos of the southern wild cucumber, Marah macrocarpus. Phytochemistry, 2010, 71, 2010-2018.	2.9	24
25	Gibberellin as a factor in floral regulatory networks. Journal of Experimental Botany, 2009, 60, 1979-1989.	4.8	355
26	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
27	Influence of electron transport proteins on the reactions catalyzed by Fusarium fujikuroi gibberellin monooxygenases. Phytochemistry, 2008, 69, 672-683.	2.9	18
28	Root growth in Arabidopsis requires gibberellin/DELLA signalling in the endodermis. Nature Cell Biology, 2008, 10, 625-628.	10.3	273
29	Genetic Analysis Reveals That C19-GA 2-Oxidation Is a Major Gibberellin Inactivation Pathway inArabidopsisÂ. Plant Cell, 2008, 20, 2420-2436.	6.6	269
30	Isolation and Characterization of the Gibberellin Biosynthetic Gene Cluster in Sphaceloma manihoticola. Applied and Environmental Microbiology, 2008, 74, 5325-5339.	3.1	68
31	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
32	The Rice YABBY1 Gene Is Involved in the Feedback Regulation of Gibberellin Metabolism. Plant Physiology, 2007, 144, 121-133.	4.8	168
33	Genetic Characterization and Functional Analysis of the GID1 Gibberellin Receptors in Arabidopsis Â. Plant Cell, 2007, 18, 3399-3414.	6.6	665
34	Function and transcript analysis of gibberellin-biosynthetic enzymes in wheat. Planta, 2006, 223, 568-582.	3.2	104
35	Transcriptional Regulation of Gibberellin Metabolism Genes by Auxin Signaling in Arabidopsis. Plant Physiology, 2006, 142, 553-563.	4.8	255
36	KNOX Action in Arabidopsis Is Mediated by Coordinate Regulation of Cytokinin and Gibberellin Activities. Current Biology, 2005, 15, 1560-1565.	3.9	614

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37	Distribution of gibberellin biosynthetic genes and gibberellin production in the Gibberella fujikuroi species complex. Phytochemistry, 2005, 66, 1296-1311.	2.9	78
38	The genes of the Green Revolution. Trends in Genetics, 2003, 19, 5-9.	6.7	1,020
39	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
40	The Gibberellin 20-Oxidase of Gibberella fujikuroi Is a Multifunctional Monooxygenase. Journal of Biological Chemistry, 2002, 277, 21246-21253.	3.4	86
41	The Gibberellin Pathway Mediates KNOTTED1-Type Homeobox Function in Plants with Different Body Plans. Current Biology, 2002, 12, 1557-1565.	3.9	399
42	Gibberellin Biosynthesis in Plants and Fungi: A Case of Convergent Evolution?. Journal of Plant Growth Regulation, 2001, 20, 319-331.	5.1	220
43	Gibberellin Metabolism and Its Regulation. Journal of Plant Growth Regulation, 2001, 20, 317-318.	5.1	59
44	Monooxygenases involved in GA12 and GA14 synthesis in Gibberella fujikuroi. Phytochemistry, 2001, 56, 505-511.	2.9	28
45	Gibberellin metabolism: new insights revealed by the genes. Trends in Plant Science, 2000, 5, 523-530.	8.8	908
46	The SLENDER Gene of Pea Encodes a Gibberellin 2-Oxidase. Plant Physiology, 1999, 121, 775-781.	4.8	126
47	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
48	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
49	Function and Substrate Specificity of the Gibberellin 3Î²-Hydroxylase Encoded by the Arabidopsis GA4Gene1. Plant Physiology, 1998, 117, 559-563.	4.8	102
50	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
51	Molecular characterisation of gibberellin 20-oxidases. Structure-function studies on recombinant enzymes and chimaeric proteins. Physiologia Plantarum, 1997, 100, 543-549.	5.2	30
52	The oxidases of gibberellin biosynthesis: Their function and mechanism. Physiologia Plantarum, 1997, 101, 709-719.	5.2	44
53	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
54	Genetic regulation of gibberellin deactivation in Pisum. Plant Journal, 1995, 7, 513-523.	5.7	92

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55	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
56	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
57	Kaurenoids and gibberellins, including the newly characterized gibberellin A88, in developing apple seeds. Phytochemistry, 1993, 32, 231-237.	2.9	33
58	Gibberellin Concentration and Transport in Genetic Lines of Pea. Plant Physiology, 1992, 100, 1354-1360.	4.8	125
59	Regulation of gibberellin biosynthesis in maize seedlings. Current Plant Science and Biotechnology in Agriculture, 1992, , 534-544.	0.0	41
60	Partial purification of two gibberellin 2Î²-hydroxylases from cotyledons of Phaseolus vulgaris. Phytochemistry, 1991, 30, 2507-2512.	2.9	34
61	Stereochemistry of the metabolic steps from kaurenoic acids to kaurenolides and gibberellins. Phytochemistry, 1990, 29, 1833-1839.	2.9	24
62	Comparison of Gibberellins in Normal and Slender Barley Seedlings. Plant Physiology, 1990, 94, 194-200.	4.8	118
63	Kaurenolide biosynthesis in a cell-free system from Cucurbita maxima seeds. Phytochemistry, 1981, 20, 1011-1015.	2.9	38
64	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
65	The ring contraction step in gibberellin biosynthesis. Journal of the Chemical Society Chemical Communications, 1975, , 161.	2.0	25
66	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