

Mikihisa Umehara

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

4,816
citations

331670

21
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

3585
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of shoot branching by new terpenoid plant hormones. <i>Nature</i> , 2008, 455, 195-200.	27.8	1,765
2	d14, a Strigolactone-Insensitive Mutant of Rice, Shows an Accelerated Outgrowth of Tillers. <i>Plant and Cell Physiology</i> , 2009, 50, 1416-1424.	3.1	560
3	Contribution of Strigolactones to the Inhibition of Tiller Bud Outgrowth under Phosphate Deficiency in Rice. <i>Plant and Cell Physiology</i> , 2010, 51, 1118-1126.	3.1	303
4	Carlactone is an endogenous biosynthetic precursor for strigolactones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1640-1645.	7.1	299
5	FINE CULM1 (FC1) Works Downstream of Strigolactones to Inhibit the Outgrowth of Axillary Buds in Rice. <i>Plant and Cell Physiology</i> , 2010, 51, 1127-1135.	3.1	276
6	Strigolactone perception and deactivation by a hydrolase receptor DWARF14. <i>Nature Communications</i> , 2019, 10, 191.	12.8	198
7	Stress-induced somatic embryogenesis in vegetative tissues of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2003, 34, 107-114.	5.7	181
8	Strigolactone signaling regulates rice leaf senescence in response to a phosphate deficiency. <i>Planta</i> , 2014, 240, 399-408.	3.2	171
9	Regulation of Strigolactone Biosynthesis by Gibberellin Signaling. <i>Plant Physiology</i> , 2017, 174, 1250-1259.	4.8	138
10	The <i>D3 F-box</i> protein is a key component in host strigolactone responses essential for arbuscular mycorrhizal symbiosis. <i>New Phytologist</i> , 2012, 196, 1208-1216.	7.3	134
11	Structural Requirements of Strigolactones for Shoot Branching Inhibition in Rice and <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2015, 56, 1059-1072.	3.1	91
12	Embryogenesis-related genes; Its expression and roles during somatic and zygotic embryogenesis in carrot and <i>Arabidopsis</i> . <i>Plant Biotechnology</i> , 2006, 23, 153-161.	1.0	67
13	Possible Roles of Strigolactones during Leaf Senescence. <i>Plants</i> , 2015, 4, 664-677.	3.5	63
14	Hydroxyl carlactone derivatives are predominant strigolactones in <i>Arabidopsis</i> . <i>Plant Direct</i> , 2020, 4, e00219.	1.9	60
15	Effects of Triazole Derivatives on Strigolactone Levels and Growth Retardation in Rice. <i>PLoS ONE</i> , 2011, 6, e21723.	2.5	55
16	A New Lead Chemical for Strigolactone Biosynthesis Inhibitors. <i>Plant and Cell Physiology</i> , 2010, 51, 1143-1150.	3.1	51
17	Strigolactone, a key regulator of nutrient allocation in plants. <i>Plant Biotechnology</i> , 2011, 28, 429-437.	1.0	43
18	Historical and contemporary gene dispersal in wild carrot (<i>Daucus carota</i> ssp. <i>carota</i>) populations. <i>Annals of Botany</i> , 2010, 106, 285-296.	2.9	41

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19	Upregulation of <i>DWARF27</i> is associated with increased strigolactone levels under sulfur deficiency in rice. <i>Plant Direct</i> , 2018, 2, e00050.	1.9	41
20	In vitro evaluation method for screening of candidate prebiotic foods. <i>Food Chemistry</i> , 2014, 152, 251-260.	8.2	34
21	Effects of strigolactone-biosynthesis inhibitor TIS108 on <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2013, 8, e24193.	2.4	33
22	Interspecific hybrids between <i>Allium fistulosum</i> and <i>Allium schoenoprasum</i> reveal carotene-rich phenotype. <i>Euphytica</i> , 2006, 148, 295-301.	1.2	21
23	Strigolactones Decrease Leaf Angle in Response to Nutrient Deficiencies in Rice. <i>Frontiers in Plant Science</i> , 2020, 11, 135.	3.6	21
24	Identification of a Novel factor, Vanillyl Benzyl Ether, Which Inhibits Somatic Embryogenesis of Japanese Larch (<i>Larix leptolepis</i> Gordon). <i>Plant and Cell Physiology</i> , 2005, 46, 445-453.	3.1	18
25	Effects of Strigolactones on Grain Yield and Seed Development in Rice. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 753-764.	5.1	15
26	Evaluation of gene flow and its environmental effects in the field. <i>Plant Biotechnology</i> , 2005, 22, 497-504.	1.0	15
27	Two stimulatory effects of the peptidyl growth factor phytosulfokine during somatic embryogenesis in Japanese larch (<i>Larix leptolepis</i> Gordon). <i>Plant Science</i> , 2005, 169, 901-907.	3.6	14
28	Inhibitory Factor(s) of Somatic Embryogenesis Regulated Suspensor Differentiation in Suspension Culture of Japanese Larch (<i>Larix leptolepis</i> GORDON). <i>Plant Biotechnology</i> , 2004, 21, 87-94.	1.0	13
29	Tebuconazole derivatives are potent inhibitors of strigolactone biosynthesis. <i>Journal of Pesticide Sciences</i> , 2013, 38, 147-151.	1.4	12
30	Endogenous auxin determines the pattern of adventitious shoot formation on internodal segments of ipecac. <i>Planta</i> , 2020, 251, 73.	3.2	11
31	Dynamics of Endogenous Indole-3-acetic Acid and Cytokinins During Adventitious Shoot Formation in Ipecac. <i>Journal of Plant Growth Regulation</i> , 2017, 36, 805-813.	5.1	10
32	Low Infection of <i>Phelipanche aegyptiaca</i> in Micro-Tom Mutants Deficient in CAROTENOID CLEAVAGE DIOXYGENASE 8. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2645.	4.1	10
33	Development of the embryo proper and the suspensor during plant embryogenesis. <i>Plant Biotechnology</i> , 2005, 22, 253-260.	1.0	9
34	Strigolactone signaling inhibition increases adventitious shoot formation on internodal segments of ipecac. <i>Planta</i> , 2021, 253, 123.	3.2	8
35	Production of interspecific hybrids between <i>Allium fistulosum</i> L. and <i>A. macrostemon</i> Bunge through ovary culture. <i>Plant Cell, Tissue and Organ Culture</i> , 2006, 87, 297-304.	2.3	7
36	Identification of a factor that complementarily inhibits somatic embryogenesis with vanillyl benzyl ether in Japanese larch. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2007, 43, 203-208.	2.1	7

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37	An in vitro Culture System used to Investigate Possible Interactions between the Embryo Proper and the Suspensor in Embryogenesis in Japanese Larch (<i>Larix leptolepis</i> GORDON). <i>Plant Biotechnology</i> , 2004, 21, 169-171.	1.0	6
38	Shoot has important roles in strigolactone production of rice roots under sulfur deficiency. <i>Plant Signaling and Behavior</i> , 2021, 16, 1880738.	2.4	4
39	Agriculture, biology, and environment: Twenty first century challenges and opportunities. <i>Agronomy Journal</i> , 2021, 113, 671-676.	1.8	4
40	Quantification of Endogenous Auxin and Cytokinin During Internode Culture of Ipecac. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	3
41	Nanometer accuracy statistical interferometric technique in monitoring the short-term effects of exogenous plant hormones, auxin and gibberellic acid, on rice plants. <i>Plant Biotechnology</i> , 2020, 37, 261-271.	1.0	2
42	Effects of Gibberellin and Abscisic Acid on Asexual Reproduction from <i>Graptopetalum paraguayense</i> Leaves. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 1373-1380.	5.1	2
43	æç%o ©ã®æžâ^†ã•ã,ŒæŠ'â^¶ãf>ãf«ãfçãf³ã®ç™èè <. <i>Kagaku To Seibutsu</i> , 2009, 47, 678-683.	0.0	0