

Kimitsune Ishizaki

List of Publications by Citations

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99
papers

5,422
citations

37
h-index

73
g-index

112
ext. papers

7,299
ext. citations

7
avg, IF

5.44
L-index

#	Paper	IF	Citations
99	Comparative transcriptome analysis reveals significant differences in gene expression and signalling pathways between developmental and dark/starvation-induced senescence in Arabidopsis. <i>Plant Journal</i> , 2005 , 42, 567-85	6.9	789
98	Insights into Land Plant Evolution Garnered from the Marchantia polymorpha Genome. <i>Cell</i> , 2017 , 171, 287-304.e15	56.2	538
97	Protein degradation - an alternative respiratory substrate for stressed plants. <i>Trends in Plant Science</i> , 2011 , 16, 489-98	13.1	261
96	Identification of the 2-hydroxyglutarate and isovaleryl-CoA dehydrogenases as alternative electron donors linking lysine catabolism to the electron transport chain of Arabidopsis mitochondria. <i>Plant Cell</i> , 2010 , 22, 1549-63	11.6	245
95	Agrobacterium-mediated transformation of the haploid liverwort Marchantia polymorpha L., an emerging model for plant biology. <i>Plant and Cell Physiology</i> , 2008 , 49, 1084-91	4.9	209
94	The critical role of Arabidopsis electron-transfer flavoprotein:ubiquinone oxidoreductase during dark-induced starvation. <i>Plant Cell</i> , 2005 , 17, 2587-600	11.6	191
93	Efficient Agrobacterium-mediated transformation of the liverwort Marchantia polymorpha using regenerating thalli. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013 , 77, 167-72	2.1	137
92	Development of Gateway Binary Vector Series with Four Different Selection Markers for the Liverwort Marchantia polymorpha. <i>PLoS ONE</i> , 2015 , 10, e0138876	3.7	122
91	The mitochondrial electron transfer flavoprotein complex is essential for survival of Arabidopsis in extended darkness. <i>Plant Journal</i> , 2006 , 47, 751-60	6.9	116
90	Application of Lifeact reveals F-actin dynamics in Arabidopsis thaliana and the liverwort, Marchantia polymorpha. <i>Plant and Cell Physiology</i> , 2009 , 50, 1041-8	4.9	114
89	Stomatal guard cells co-opted an ancient ABA-dependent desiccation survival system to regulate stomatal closure. <i>Current Biology</i> , 2015 , 25, 928-35	6.3	113
88	Molecular Genetic Tools and Techniques for Marchantia polymorpha Research. <i>Plant and Cell Physiology</i> , 2016 , 57, 262-70	4.9	112
87	Gene organization of the liverwort Y chromosome reveals distinct sex chromosome evolution in a haploid system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 6472-7	11.5	107
86	Homologous recombination-mediated gene targeting in the liverwort Marchantia polymorpha L. <i>Scientific Reports</i> , 2013 , 3, 1532	4.9	94
85	Auxin-Mediated Transcriptional System with a Minimal Set of Components Is Critical for Morphogenesis through the Life Cycle in Marchantia polymorpha. <i>PLoS Genetics</i> , 2015 , 11, e1005084	6	93
84	Evolutionarily conserved regulatory mechanisms of abscisic acid signaling in land plants: characterization of ABSCISIC ACID INSENSITIVE1-like type 2C protein phosphatase in the liverwort Marchantia polymorpha. <i>Plant Physiology</i> , 2010 , 152, 1529-43	6.6	85
83	Direct transformation of the liverwort Marchantia polymorpha L. by particle bombardment using immature thalli developing from spores. <i>Plant Cell Reports</i> , 2008 , 27, 1467-73	5.1	76

82	Auxin Produced by the Indole-3-Pyruvic Acid Pathway Regulates Development and Gemmae Dormancy in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant Cell</i> , 2015 , 27, 1650-69	11.6	71
81	Composition and physiological function of the chloroplast NADH dehydrogenase-like complex in <i>Marchantia polymorpha</i> . <i>Plant Journal</i> , 2012 , 72, 683-93	6.9	70
80	Cell-specific localization of alkaloids in <i>Catharanthus roseus</i> stem tissue measured with Imaging MS and Single-cell MS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3891-6	11.5	69
79	Chloroplastic ATP synthase builds up a proton motive force preventing production of reactive oxygen species in photosystem I. <i>Plant Journal</i> , 2017 , 91, 306-324	6.9	68
78	The Liverwort, , Drives Alternative Electron Flow Using a Flavodiiron Protein to Protect PSI. <i>Plant Physiology</i> , 2017 , 173, 1636-1647	6.6	65
77	RSL Class I Genes Controlled the Development of Epidermal Structures in the Common Ancestor of Land Plants. <i>Current Biology</i> , 2016 , 26, 93-9	6.3	64
76	Comparison of the MpEF1 and CaMV35 promoters for application in <i>Marchantia polymorpha</i> overexpression studies. <i>Transgenic Research</i> , 2014 , 23, 235-44	3.3	63
75	Co-option of a photoperiodic growth-phase transition system during land plant evolution. <i>Nature Communications</i> , 2014 , 5, 3668	17.4	62
74	An Evolutionarily Conserved Plant RKD Factor Controls Germ Cell Differentiation. <i>Current Biology</i> , 2016 , 26, 1775-1781	6.3	58
73	Diversification of histone H2A variants during plant evolution. <i>Trends in Plant Science</i> , 2015 , 20, 419-25	13.1	54
72	Diversity of strategies for escaping reactive oxygen species production within photosystem I among land plants: P700 oxidation system is prerequisite for alleviating photoinhibition in photosystem I. <i>Physiologia Plantarum</i> , 2017 , 161, 56-74	4.6	53
71	Visualization of auxin-mediated transcriptional activation using a common auxin-responsive reporter system in the liverwort <i>Marchantia polymorpha</i> . <i>Journal of Plant Research</i> , 2012 , 125, 643-51	2.6	53
70	Phototropin encoded by a single-copy gene mediates chloroplast photorelocation movements in the liverwort <i>Marchantia polymorpha</i> . <i>Plant Physiology</i> , 2014 , 166, 411-27	6.6	48
69	Phytochrome Signaling Is Mediated by PHYTOCHROME INTERACTING FACTOR in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant Cell</i> , 2016 , 28, 1406-21	11.6	47
68	Functional analysis of allene oxide cyclase, MpAOC, in the liverwort <i>Marchantia polymorpha</i> . <i>Phytochemistry</i> , 2015 , 116, 48-56	4	47
67	SNARE Molecules in <i>Marchantia polymorpha</i> : Unique and Conserved Features of the Membrane Fusion Machinery. <i>Plant and Cell Physiology</i> , 2016 , 57, 307-24	4.9	46
66	Biochemical characterization of allene oxide synthases from the liverwort <i>Marchantia polymorpha</i> and green microalgae <i>Klebsormidium flaccidum</i> provides insight into the evolutionary divergence of the plant CYP74 family. <i>Planta</i> , 2015 , 242, 1175-86	4.7	38
65	The Naming of Names: Guidelines for Gene Nomenclature in <i>Marchantia</i> . <i>Plant and Cell Physiology</i> , 2016 , 57, 257-61	4.9	38

64	Essential role of the E3 ubiquitin ligase nopperabo1 in schizogenous intercellular space formation in the liverwort <i>Marchantia polymorpha</i> . <i>Plant Cell</i> , 2013 , 25, 4075-84	11.6	38
63	An Evolutionarily Conserved Abscisic Acid Signaling Pathway Regulates Dormancy in the Liverwort <i>Marchantia polymorpha</i> . <i>Current Biology</i> , 2018 , 28, 3691-3699.e3	6.3	38
62	Phytochrome-mediated regulation of cell division and growth during regeneration and sporeling development in the liverwort <i>Marchantia polymorpha</i> . <i>Journal of Plant Research</i> , 2015 , 128, 407-21	2.6	37
61	Transcriptional Framework of Male Gametogenesis in the Liverwort <i>Marchantia polymorpha</i> L. <i>Plant and Cell Physiology</i> , 2016 , 57, 325-38	4.9	37
60	Identification of miRNAs and Their Targets in the Liverwort <i>Marchantia polymorpha</i> by Integrating RNA-Seq and Degradome Analyses. <i>Plant and Cell Physiology</i> , 2016 , 57, 339-58	4.9	36
59	Cold-induced organelle relocation in the liverwort <i>Marchantia polymorpha</i> L. <i>Plant, Cell and Environment</i> , 2013 , 36, 1520-8	8.4	36
58	Land plants drive photorespiration as higher electron-sink: comparative study of post-illumination transient O ₂ -uptake rates from liverworts to angiosperms through ferns and gymnosperms. <i>Physiologia Plantarum</i> , 2017 , 161, 138-149	4.6	35
57	Profiling and Characterization of Small RNAs in the Liverwort, <i>Marchantia polymorpha</i> , Belonging to the First Diverged Land Plants. <i>Plant and Cell Physiology</i> , 2016 , 57, 359-72	4.9	33
56	Analysis of a range of catabolic mutants provides evidence that phytanoyl-coenzyme A does not act as a substrate of the electron-transfer flavoprotein/electron-transfer flavoprotein:ubiquinone oxidoreductase complex in <i>Arabidopsis</i> during dark-induced senescence. <i>Plant Physiology</i> , 2011 , 157, 55-69	6.6	33
55	Multicopy genes uniquely amplified in the Y chromosome-specific repeats of the liverwort <i>Marchantia polymorpha</i> . <i>Nucleic Acids Research</i> , 2002 , 30, 4675-81	20.1	32
54	Generative Cell Specification Requires Transcription Factors Evolutionarily Conserved in Land Plants. <i>Current Biology</i> , 2018 , 28, 479-486.e5	6.3	31
53	The complexity of intercellular localisation of alkaloids revealed by single-cell metabolomics. <i>New Phytologist</i> , 2019 , 224, 848-859	9.8	31
52	The Roles of the Sole Activator-Type Auxin Response Factor in Pattern Formation of <i>Marchantia polymorpha</i> . <i>Plant and Cell Physiology</i> , 2017 , 58, 1642-1651	4.9	31
51	Design principles of a minimal auxin response system. <i>Nature Plants</i> , 2020 , 6, 473-482	11.5	30
50	Occurrence of brassinosteroids in non-flowering land plants, liverwort, moss, lycophyte and fern. <i>Phytochemistry</i> , 2017 , 136, 46-55	4	29
49	Characterization of the plasma membrane H ⁺ -ATPase in the liverwort <i>Marchantia polymorpha</i> . <i>Plant Physiology</i> , 2012 , 159, 826-34	6.6	28
48	Transcription factor DUO1 generated by neo-functionalization is associated with evolution of sperm differentiation in plants. <i>Nature Communications</i> , 2018 , 9, 5283	17.4	28
47	Control of proliferation in the haploid meristem by CLE peptide signaling in <i>Marchantia polymorpha</i> . <i>PLoS Genetics</i> , 2019 , 15, e1007997	6	27

46	Evolution of land plants: insights from molecular studies on basal lineages. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017 , 81, 73-80	2.1	26
45	Characterization of four nuclear-encoded plastid RNA polymerase sigma factor genes in the liverwort <i>Marchantia polymorpha</i> : blue-light- and multiple stress-responsive SIG5 was acquired early in the emergence of terrestrial plants. <i>Plant and Cell Physiology</i> , 2013 , 54, 1736-48	4.9	23
44	Biosynthesis of riccionidins and marchantins is regulated by R2R3-MYB transcription factors in <i>Marchantia polymorpha</i> . <i>Journal of Plant Research</i> , 2018 , 131, 849-864	2.6	22
43	Induction of Multichotomous Branching by CLAVATA Peptide in <i>Marchantia polymorpha</i> . <i>Current Biology</i> , 2020 , 30, 3833-3840.e4	6.3	21
42	Cytokinin Signaling Is Essential for Organ Formation in <i>Marchantia polymorpha</i> . <i>Plant and Cell Physiology</i> , 2019 , 60, 1842-1854	4.9	19
41	Arachidonic acid-dependent carbon-eight volatile synthesis from wounded liverwort (<i>Marchantia polymorpha</i>). <i>Phytochemistry</i> , 2014 , 107, 42-9	4	19
40	Cryopreservation of Gemmae from the Liverwort <i>Marchantia polymorpha</i> L. <i>Plant and Cell Physiology</i> , 2016 , 57, 300-6	4.9	18
39	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. <i>PLoS Biology</i> , 2019 , 17, e3000560	9.7	17
38	Abscisic acid-induced gene expression in the liverwort <i>Marchantia polymorpha</i> is mediated by evolutionarily conserved promoter elements. <i>Physiologia Plantarum</i> , 2016 , 156, 407-20	4.6	16
37	An evolutionarily conserved NIMA-related kinase directs rhizoid tip growth in the basal land plant. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	15
36	Abscisic acid induces biosynthesis of bisbibenzyls and tolerance to UV-C in the liverwort <i>Marchantia polymorpha</i> . <i>Phytochemistry</i> , 2015 , 117, 547-553	4	14
35	Subfunctionalization of sigma factors during the evolution of land plants based on mutant analysis of liverwort (<i>Marchantia polymorpha</i> L.) MpSIG1. <i>Genome Biology and Evolution</i> , 2013 , 5, 1836-48	3.9	14
34	Evolution of ribosomal DNA unit on the X chromosome independent of autosomal units in the liverwort <i>Marchantia polymorpha</i> . <i>Chromosome Research</i> , 2003 , 11, 695-703	4.4	14
33	Isolation and characterization of high-CO ₂ requiring mutants from <i>Chlamydomonas reinhardtii</i> by gene tagging. <i>Canadian Journal of Botany</i> , 1998 , 76, 1092-1097		14
32	GEMMA CUP-ASSOCIATED MYB1, an Ortholog of Axillary Meristem Regulators, Is Essential in Vegetative Reproduction in <i>Marchantia polymorpha</i> . <i>Current Biology</i> , 2019 , 29, 3987-3995.e5	6.3	14
31	Evolutionary analysis of iron (Fe) acquisition system in <i>Marchantia polymorpha</i> . <i>New Phytologist</i> , 2016 , 211, 569-83	9.8	12
30	Diversity of Pectin Rhamnogalacturonan I Rhamnosyltransferases in Glycosyltransferase Family 106. <i>Frontiers in Plant Science</i> , 2020 , 11, 997	6.2	11
29	Development and Molecular Genetics of. <i>Annual Review of Plant Biology</i> , 2021 , 72, 677-702	30.7	11

28	Physiological function of photoreceptor UVR8 in UV-B tolerance in the liverwort <i>Marchantia polymorpha</i> . <i>Planta</i> , 2019 , 249, 1349-1364	4.7	10
27	Development of schizogenous intercellular spaces in plants. <i>Frontiers in Plant Science</i> , 2015 , 6, 497	6.2	10
26	Altered levels of primary metabolites in response to exogenous indole-3-acetic acid in wild type and auxin signaling mutants of <i>Arabidopsis thaliana</i> : A capillary electrophoresis-mass spectrometry analysis. <i>Plant Biotechnology</i> , 2015 , 32, 65-79	1.3	10
25	The RopGEF KARAPPO Is Essential for the Initiation of Vegetative Reproduction in <i>Marchantia polymorpha</i> . <i>Current Biology</i> , 2019 , 29, 3525-3531.e7	6.3	9
24	DRP3 and ELM1 are required for mitochondrial fission in the liverwort <i>Marchantia polymorpha</i> . <i>Scientific Reports</i> , 2017 , 7, 4600	4.9	9
23	Gene content, organization and molecular evolution of plant organellar genomes and sex chromosomes: insights from the case of the liverwort <i>Marchantia polymorpha</i> . <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2009 , 85, 108-24	4	9
22	Gemma cup and gemma development in <i>Marchantia polymorpha</i> . <i>New Phytologist</i> , 2020 , 228, 459-465	9.8	8
21	Dynamic reorganization of the endomembrane system during spermatogenesis in <i>Marchantia polymorpha</i> . <i>Journal of Plant Research</i> , 2017 , 130, 433-441	2.6	7
20	Responses of the chloroplast glyoxalase system to high CO concentrations. <i>Bioscience, Biotechnology and Biochemistry</i> , 2018 , 82, 2072-2083	2.1	6
19	Transcriptional and Morpho-Physiological Responses of upon Phosphate Starvation. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
18	Involvement of Ca ²⁺ in Vacuole Degradation Caused by a Rapid Temperature Decrease in <i>Saintpaulia</i> Palisade Cells: A Case of Gene Expression Analysis in a Specialized Small Tissue. <i>Plant and Cell Physiology</i> , 2015 , 56, 1297-305	4.9	5
17	Cryopreservation of <i>Marchantia polymorpha</i> spermatozoa. <i>Journal of Plant Research</i> , 2018 , 131, 1047-1054	5.4	5
16	Inositol Hexakis Phosphate is the Seasonal Phosphorus Reservoir in the Deciduous Woody Plant <i>Populus alba</i> L. <i>Plant and Cell Physiology</i> , 2017 , 58, 1477-1485	4.9	5
15	Major components of the KARRIKIN INSENSITIVE2-dependent signaling pathway are conserved in the liverwort <i>Marchantia polymorpha</i> . <i>Plant Cell</i> , 2021 , 33, 2395-2411	11.6	5
14	Isolation and characterization of high-CO ₂ requiring mutants from <i>Chlamydomonas reinhardtii</i> by gene tagging. <i>Canadian Journal of Botany</i> , 1998 , 76, 1092-1097		4
13	Major components in the KARRIKIN INSENSITIVE2-ligand signaling pathway are conserved in the liverwort, <i>Marchantia polymorpha</i>		1
12	Differential regulation of fluorescent alkaloid metabolism between idioblast and laticifer cells during leaf development in <i>Catharanthus roseus</i> seedlings.. <i>Journal of Plant Research</i> , 2022 , 1	2.6	1
11	A glycogen synthase kinase 3-like kinase MpGSK regulates cell differentiation in <i>Marchantia polymorpha</i> . <i>Plant Biotechnology</i> , 2022 , 39, 65-72	1.3	1

10	Migration of prospindle before the first asymmetric division in germinating spore of <i>Marchantia polymorpha</i> . <i>Plant Biotechnology</i> , 2022 , 39, 5-12	1.3	1
9	Phosphate Starvation Triggers Transcriptional Changes in the Biosynthesis and Signaling Pathways of Phytohormones in <i>Marchantia polymorpha</i> . <i>Biology and Life Sciences Forum</i> , 2021 , 4, 89		0
8	?????????????????????????????????. <i>Kagaku To Seibutsu</i> , 2020 , 58, 502-504		0
7	Localization of small molecules in plant tissues visualized by an imaging mass spectrometer. <i>Plant Morphology</i> , 2016 , 28, 23-27		0
6	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs 2019 , 17, e3000560		
5	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs 2019 , 17, e3000560		
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