

Kimitsune Ishizaki

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

8,302
citations

50273

46
h-index

53222

85
g-index

112
all docs

112
docs citations

112
times ranked

6784
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into Land Plant Evolution Garnered from the <i>Marchantia polymorpha</i> Genome. <i>Cell</i> , 2017, 171, 287-304.e15.	28.9	973
2	Comparative transcriptome analysis reveals significant differences in gene expression and signalling pathways between developmental and dark/starvation-induced senescence in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2005, 42, 567-585.	5.7	924
3	Protein degradation – an alternative respiratory substrate for stressed plants. <i>Trends in Plant Science</i> , 2011, 16, 489-498.	8.8	367
4	<i>Agrobacterium</i> -Mediated Transformation of the Haploid Liverwort <i>Marchantia polymorpha</i> L., an Emerging Model for Plant Biology. <i>Plant and Cell Physiology</i> , 2008, 49, 1084-1091.	3.1	310
5	Identification of the 2-Hydroxyglutarate and Isovaleryl-CoA Dehydrogenases as Alternative Electron Donors Linking Lysine Catabolism to the Electron Transport Chain of <i>Arabidopsis</i> Mitochondria. <i>Plant Cell</i> , 2010, 22, 1549-1563.	6.6	296
6	Efficient <i>Agrobacterium</i> -Mediated Transformation of the Liverwort <i>Marchantia polymorpha</i> Using Regenerating Thalli. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 167-172.	1.3	247
7	Development of Gateway Binary Vector Series with Four Different Selection Markers for the Liverwort <i>Marchantia polymorpha</i> . <i>PLoS ONE</i> , 2015, 10, e0138876.	2.5	231
8	The Critical Role of <i>Arabidopsis</i> Electron-Transfer Flavoprotein:Ubiquinone Oxidoreductase during Dark-Induced Starvation. <i>Plant Cell</i> , 2005, 17, 2587-2600.	6.6	211
9	Molecular Genetic Tools and Techniques for <i>Marchantia polymorpha</i> Research. <i>Plant and Cell Physiology</i> , 2016, 57, 262-270.	3.1	195
10	Auxin-Mediated Transcriptional System with a Minimal Set of Components Is Critical for Morphogenesis through the Life Cycle in <i>Marchantia polymorpha</i> . <i>PLoS Genetics</i> , 2015, 11, e1005084.	3.5	157
11	Stomatal Guard Cells Co-opted an Ancient ABA-Dependent Desiccation Survival System to Regulate Stomatal Closure. <i>Current Biology</i> , 2015, 25, 928-935.	3.9	154
12	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, 1650-1669.	6.6	138
13	RSL Class I Genes Controlled the Development of Epidermal Structures in the Common Ancestor of Land Plants. <i>Current Biology</i> , 2016, 26, 93-99.	3.9	129
14	The mitochondrial electron transfer flavoprotein complex is essential for survival of <i>Arabidopsis</i> in extended darkness. <i>Plant Journal</i> , 2006, 47, 751-760.	5.7	128
15	Application of Lifeact Reveals F-Actin Dynamics in <i>Arabidopsis thaliana</i> and the Liverwort, <i>Marchantia polymorpha</i> . <i>Plant and Cell Physiology</i> , 2009, 50, 1041-1048.	3.1	127
16	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, 6472-6477.	7.1	125
17	Homologous recombination-mediated gene targeting in the liverwort <i>Marchantia polymorpha</i> L.. <i>Scientific Reports</i> , 2013, 3, 1532.	3.3	119
18	Direct transformation of the liverwort <i>Marchantia polymorpha</i> L. by particle bombardment using immature thalli developing from spores. <i>Plant Cell Reports</i> , 2008, 27, 1467-1473.	5.6	111

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19	An Evolutionarily Conserved Plant RKD Factor Controls Germ Cell Differentiation. <i>Current Biology</i> , 2016, 26, 1775-1781.	3.9	109
20	Co-option of a photoperiodic growth-phase transition system during land plant evolution. <i>Nature Communications</i> , 2014, 5, 3668.	12.8	100
21	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, 3891-3896.	7.1	99
22	Evolutionarily Conserved Regulatory Mechanisms of Abscisic Acid Signaling in Land Plants: Characterization of <i>ABSCISIC ACID INSENSITIVE1</i> -Like Type 2C Protein Phosphatase in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant Physiology</i> , 2010, 152, 1529-1543.	4.8	96
23	Chloroplastic <i>ATP</i> synthase builds up a proton motive force preventing production of reactive oxygen species in photosystem I. <i>Plant Journal</i> , 2017, 91, 306-324.	5.7	96
24	Phytochrome Signaling Is Mediated by PHYTOCHROME INTERACTING FACTOR in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant Cell</i> , 2016, 28, 1406-1421.	6.6	94
25	Comparison of the <i>MpEF1</i> and <i>CaMV35</i> promoters for application in <i>Marchantia polymorpha</i> overexpression studies. <i>Transgenic Research</i> , 2014, 23, 235-244.	2.4	93
26	The Liverwort, <i>Marchantia</i> , Drives Alternative Electron Flow Using a Flavodiiron Protein to Protect PSI. <i>Plant Physiology</i> , 2017, 173, 1636-1647.	4.8	91
27	Composition and physiological function of the chloroplast NADH dehydrogenase-like complex in <i>Marchantia polymorpha</i> . <i>Plant Journal</i> , 2012, 72, 683-693.	5.7	88
28	Generative Cell Specification Requires Transcription Factors Evolutionarily Conserved in Land Plants. <i>Current Biology</i> , 2018, 28, 479-486.e5.	3.9	87
29	Diversification of histone H2A variants during plant evolution. <i>Trends in Plant Science</i> , 2015, 20, 419-425.	8.8	85
30	Transcriptional Framework of Male Gametogenesis in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant and Cell Physiology</i> , 2016, 57, 325-338.	3.1	83
31	SNARE Molecules in <i>Marchantia polymorpha</i> : Unique and Conserved Features of the Membrane Fusion Machinery. <i>Plant and Cell Physiology</i> , 2016, 57, 307-324.	3.1	82
32	Diversity of strategies for escaping reactive oxygen species production within photosystem I among land plants: <i>P700</i> oxidation system is prerequisite for alleviating photoinhibition in photosystem I. <i>Physiologia Plantarum</i> , 2017, 161, 56-74.	5.2	73
33	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.	3.1	73
34	Design principles of a minimal auxin response system. <i>Nature Plants</i> , 2020, 6, 473-482.	9.3	71
35	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, 643-651.	2.4	70
36	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, 339-358.	3.1	70

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37	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, 359-372.	3.1	68
38	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.	3.9	68
39	The complexity of intercellular localisation of alkaloids revealed by single-cell metabolomics. <i>New Phytologist</i> , 2019, 224, 848-859.	7.3	65
40	Functional analysis of allene oxide cyclase, MpAOC, in the liverwort <i>Marchantia polymorpha</i> . <i>Phytochemistry</i> , 2015, 116, 48-56.	2.9	64
41	Phototropin Encoded by a Single-Copy Gene Mediates Chloroplast Photorelocation Movements in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant Physiology</i> , 2014, 166, 411-427.	4.8	63
42	Development and Molecular Genetics of <i>Marchantia polymorpha</i> . <i>Annual Review of Plant Biology</i> , 2021, 72, 677-702.	18.7	61
43	The Naming of Names: Guidelines for Gene Nomenclature in <i>Marchantia</i> . <i>Plant and Cell Physiology</i> , 2016, 57, 257-261.	3.1	60
44	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, 407-421.	2.4	58
45	Occurrence of brassinosteroids in non-flowering land plants, liverwort, moss, lycophyte and fern. <i>Phytochemistry</i> , 2017, 136, 46-55.	2.9	56
46	Control of proliferation in the haploid meristem by CLE peptide signaling in <i>Marchantia polymorpha</i> . <i>PLoS Genetics</i> , 2019, 15, e1007997.	3.5	55
47	Transcription factor DUO1 generated by neo-functionalization is associated with evolution of sperm differentiation in plants. <i>Nature Communications</i> , 2018, 9, 5283.	12.8	54
48	Induction of Multichotomous Branching by CLAVATA Peptide in <i>Marchantia polymorpha</i> . <i>Current Biology</i> , 2020, 30, 3833-3840.e4.	3.9	54
49	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, 1175-1186.	3.2	51
50	Multicopy genes uniquely amplified in the Y chromosome-specific repeats of the liverwort <i>Marchantia polymorpha</i> . <i>Nucleic Acids Research</i> , 2002, 30, 4675-4681.	14.5	50
51	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, 4075-4084.	6.6	50
52	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.	2.4	50
53	Cold-induced organelle relocation in the liverwort <i>Marchantia polymorpha</i> . <i>Plant, Cell and Environment</i> , 2013, 36, 1520-1528.	5.7	47
54	Evolution of land plants: insights from molecular studies on basal lineages. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 73-80.	1.3	47

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55	Land plants drive photorespiration as higher electron sink: comparative study of postillumination transient O_2 uptake rates from liverworts to angiosperms through ferns and gymnosperms. <i>Physiologia Plantarum</i> , 2017, 161, 138-149.	5.2	45
56	Characterization of the Plasma Membrane H^+ -ATPase in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant Physiology</i> , 2012, 159, 826-834.	4.8	42
57	Cytokinin Signaling Is Essential for Organ Formation in <i>Marchantia polymorpha</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 1842-1854.	3.1	41
58	Analysis of a Range of Catabolic Mutants Provides Evidence That Phytanoyl-Coenzyme A Does Not Act as a Substrate of the Electron-Transfer Flavoprotein/Ubiquinone Oxidoreductase Complex in Arabidopsis during Dark-Induced Senescence. <i>Plant Physiology</i> , 2011, 157, 55-69.	4.8	39
59	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.	3.9	35
60	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. <i>PLoS Biology</i> , 2019, 17, e3000560.	5.6	34
61	Gemma cup and gemma development in <i>Marchantia polymorpha</i> . <i>New Phytologist</i> , 2020, 228, 459-465.	7.3	33
62	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, 1736-1748.	3.1	31
63	An evolutionarily conserved NIMA-related kinase directs rhizoid tip growth in the basal land plant <i>Marchantia polymorpha</i> . <i>Development (Cambridge)</i> , 2018, 145, .	2.5	30
64	Physiological function of photoreceptor UVR8 in UV-B tolerance in the liverwort <i>Marchantia polymorpha</i> . <i>Planta</i> , 2019, 249, 1349-1364.	3.2	29
65	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.	6.6	28
66	Diversity of Pectin Rhamnogalacturonan I Rhamnosyltransferases in Glycosyltransferase Family 106. <i>Frontiers in Plant Science</i> , 2020, 11, 997.	3.6	27
67	Arachidonic acid-dependent carbon-eight volatile synthesis from wounded liverwort (<i>Marchantia</i>) Tj ETQq1 1 0.784314 rgBT /Overlock	2.9	25
68	Cryopreservation of Gemmae from the Liverwort <i>Marchantia polymorpha</i> L.. <i>Plant and Cell Physiology</i> , 2016, 57, 300-306.	3.1	25
69	Development of schizogenous intercellular spaces in plants. <i>Frontiers in Plant Science</i> , 2015, 6, 497.	3.6	24
70	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.	2.9	23
71	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.	3.9	23
72	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, 407-420.	5.2	20

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73	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.	2.2	19
74	Dynamic reorganization of the endomembrane system during spermatogenesis in <i>Marchantia polymorpha</i> . <i>Journal of Plant Research</i> , 2017, 130, 433-441.	2.4	19
75	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.	3.1	19
76	DRP3 and ELM1 are required for mitochondrial fission in the liverwort <i>Marchantia polymorpha</i> . <i>Scientific Reports</i> , 2017, 7, 4600.	3.3	18
77	Evolutionary analysis of iron (Fe) acquisition system in <i>Marchantia polymorpha</i> . <i>New Phytologist</i> , 2016, 211, 569-583.	7.3	17
78	Transcriptional and Morpho-Physiological Responses of <i>Marchantia polymorpha</i> upon Phosphate Starvation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8354.	4.1	17
79	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, 1836-1848.	2.5	16
80	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.	1.1	16
81	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.	1.0	12
82	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.	1.1	11
83	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, 108-124.	3.8	10
84	Cryopreservation of <i>Marchantia polymorpha</i> spermatozoa. <i>Journal of Plant Research</i> , 2018, 131, 1047-1054.	2.4	9
85	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, 1297-1305.	3.1	8
86	Responses of the chloroplast glyoxalase system to high CO ₂ concentrations. <i>Bioscience, Biotechnology and Biochemistry</i> , 2018, 82, 2072-2083.	1.3	6
87	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, 135, 473-483.	2.4	6
88	A glycogen synthase kinase 3-like kinase MpGSK regulates cell differentiation in <i>Marchantia polymorpha</i> . <i>Plant Biotechnology</i> , 2022, 39, 65-72.	1.0	5
89	Visualization of phosphorus retranslocation and phosphate transporter expression profiles in a shortened annual cycle system of poplar. <i>Plant, Cell and Environment</i> , 2022, 45, 1749-1764.	5.7	5
90	Migration of prospindle before the first asymmetric division in germinating spore of <i>Marchantia polymorpha</i> . <i>Plant Biotechnology</i> , 2022, 39, 5-12.	1.0	2

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91	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.	0.6	1
92	Distinct Functions of the Atypical Terminal Hydrophilic Domain of the HKT Transporter in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant and Cell Physiology</i> , 2022, , .	3.1	1
93	Localization of small molecules in plant tissues visualized by an imaging mass spectrometer. <i>Plant Morphology</i> , 2016, 28, 23-27.	0.1	0
94	The RopGEF KARAPPO is Essential for the Initiation of Vegetative Reproduction in <i>Marchantia</i> . <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
95	â°ã@âŽ,,ã»«è€...ã,¼ãf«ã,´ã,±ãĒã,ãfãf¼ãf3ã€ã½²“ã,´ããã,Šç¹œ®-ãªãã,ã»•çµ,,ãġ. <i>Kagaku To Seibutsu</i> , 2020, 58, 502-504.		0
96	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
97	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
98	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
99	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
100	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
101	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0