Kiminori Toyooka

List of Publications by Year
in descending order

115	8,507	76326	48315
papers	citations	40 h-index	88 g-index

125	125	125	15801
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wound-inducible WUSCHEL-RELATED HOMEOBOX 13 is required for callus growth and organ reconnection. Plant Physiology, 2022, 188, 425-441.	4.8	44
2	A Synthetic Multidomain Peptide That Drives a Macropinocytosis-Like Mechanism for Cytosolic Transport of Exogenous Proteins into Plants. Jacs Au, 2022, 2, 223-233.	7.9	10
3	Cargo sorting zones in the trans-Golgi network visualized by super-resolution confocal live imaging microscopy in plants. Nature Communications, 2021, 12, 1901.	12.8	57
4	Mitochondrial movement during its association with chloroplasts in Arabidopsis thaliana. Communications Biology, 2021, 4, 292.	4.4	13
5	A unique mode of keratinocyte death requires intracellular acidification. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	29
6	Excessive ammonium assimilation by plastidic glutamine synthetase causes ammonium toxicity in Arabidopsis thaliana. Nature Communications, 2021, 12, 4944.	12.8	87
7	A multimodal metabolomics approach using imaging mass spectrometry and liquid chromatography-tandem mass spectrometry for spatially characterizing monoterpene indole alkaloids secreted from roots. Plant Biotechnology, 2021, 38, 305-310.	1.0	7
8	Spatial metabolomics using imaging mass spectrometry to identify the localization of asparaptine A in <i>Asparagus officinalis</i>. Plant Biotechnology, 2021, 38, 311-315.	1.0	6
9	Three-dimensional reconstructions of haustoria in two parasitic plant species in the Orobanchaceae. Plant Physiology, 2021, 185, 1429-1442.	4.8	17
10	Characterization of Frond and Flower Development and Identification of FT and FD Genes From Duckweed Lemna aequinoctialis Nd. Frontiers in Plant Science, 2021, 12, 697206.	3.6	9
11	Carotenoids in the eyespot apparatus are required for triggering phototaxis in <scp>Euglena gracilis</scp>. Plant Journal, 2020, 101, 1091-1102.	5.7	16
12	VISUAL-CC system uncovers the role of GSK3 as an orchestrator of vascular cell type ratio in plants. Communications Biology, 2020, 3, 184.	4.4	19
13	Subnuclear gene positioning through lamina association affects copper tolerance. Nature Communications, 2020, 11, 5914.	12.8	37
14	The Arabidopsis NRT1/PTR FAMILY protein NPF7.3/NRT1.5 is an indole-3-butyric acid transporter involved in root gravitropism. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31500-31509.	7.1	32
15	Syringic Acid Alleviates Cesium-Induced Growth Defect in Arabidopsis. International Journal of Molecular Sciences, 2020, 21, 9116.	4.1	8
16	Acclimation process of the chlorophyll <i>d</i>-bearing cyanobacterium <i>Acaryochloris marina</i> to an orange light environment revealed by transcriptomic analysis and electron microscopic observation. Journal of General and Applied Microbiology, 2020, 66, 106-115.	0.7	5
17	Carotenoid accumulation in the eyespot apparatus required for phototaxis is independent of chloroplast development in Euglena gracilis. Plant Science, 2020, 298, 110564.	3.6	15
18	Dimorphic Leaf Development of the Aquatic Plant Callitriche palustris L. Through Differential Cell Division and Expansion. Frontiers in Plant Science, 2020, 11, 269.	3.6	19

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19	Metabolomics with ¹⁵N Labeling for Characterizing Missing Monoterpene Indole Alkaloids in Plants. Analytical Chemistry, 2020, 92, 5670-5675.	6.5	19
20	High Humidity Causes Abnormalities in the Process of Appressorial Formation of Blumeria graminis f. sp. hordei. Pathogens, 2020, 9, 45.	2.8	5
21	Comparative functional analyses of DWARF14 and KARRIKIN INSENSITIVEÂ2 in drought adaptation of Arabidopsis thaliana. Plant Journal, 2020, 103, 111-127.	5.7	58
22	Cytosolic GLUTAMINE SYNTHETASE1;1 Modulates Metabolism and Chloroplast Development in Roots. Plant Physiology, 2020, 182, 1894-1909.	4.8	25
23	Latest microscope technique for plant biology; to obtain ultrastructure, molecular mechanism, and biological function. Plant Morphology, 2020, 32, 1-2.	0.1	0
24	New methods for capturing life phenomena using scanning electron microscopy. Plant Morphology, 2020, 32, 3-9.	0.1	0
25	Efficient fluorescence recovery using antifade reagents in correlative light and electron microscopy. Microscopy (Oxford, England), 2019, 68, 417-421.	1.5	6
26	The RopGEF KARAPPO Is Essential for the Initiation of Vegetative Reproduction in Marchantia polymorpha. Current Biology, 2019, 29, 3525-3531.e7.	3.9	23
27	A Rho-actin signaling pathway shapes cell wall boundaries in Arabidopsis xylem vessels. Nature Communications, 2019, 10, 468.	12.8	52
28	3D in vivo imaging of the keratin filament network in the mouse stratum granulosum reveals profilaggrin-dependent regulation of keratin bundling. Journal of Dermatological Science, 2019, 94, 346-349.	1.9	3
29	Alternative Oxidase Capacity of Mitochondria in Microsporophylls May Function in Cycad Thermogenesis. Plant Physiology, 2019, 180, 743-756.	4.8	18
30	Keeping the shape of plant tissue for visualizing metabolite features in segmentation and correlation analysis of imaging mass spectrometry in Asparagus officinalis. Metabolomics, 2019, 15, 24.	3.0	26
31	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. PLoS Biology, 2019, 17, e3000560.	5.6	34
32	A whole-cell electron tomography model of vacuole biogenesis in Arabidopsis root cells. Nature Plants, 2019, 5, 95-105.	9.3	89
33	Abscisic Acid Acts as a Regulator of Molecular Trafficking through Plasmodesmata in the MossPhyscomitrella patens. Plant and Cell Physiology, 2019, 60, 738-751.	3.1	25
34	Various biological phenomena to be observed with electron microscopy. Plant Morphology, 2019, 31, 1-2.	0.1	0
35	Electron microscopy of plant samples by using high-pressure freezing/freeze substitution method. Plant Morphology, 2019, 31, 25-29.	0.1	0
36	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0

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37	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
38	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
39	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
40	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
41	A conserved regulatory mechanism mediates the convergent evolution of plant shoot lateral organs. , 2019, 17, e3000560.		0
42	Plastid translation is essential for lateral root stem-cell patterning in Arabidopsis thaliana. Biology Open, 2018, 7, .	1.2	22
43	Stress granule formation is induced by a threshold temperature rather than a temperature difference in Arabidopsis. Journal of Cell Science, 2018, 131, .	2.0	27
44	Cell wall accumulation of fluorescent proteins derived from a trans-Golgi cisternal membrane marker and paramural bodies in interdigitated Arabidopsis leaf epidermal cells. Protoplasma, 2017, 254, 367-377.	2.1	7
45	Top-down Metabolomic Approaches for Nitrogen-Containing Metabolites. Analytical Chemistry, 2017, 89, 2698-2703.	6.5	25
46	Liquid Crystalline Granules Align in a Hierarchical Structure To Produce Spider Dragline Microfibrils. Biomacromolecules, 2017, 18, 1350-1355.	5.4	49
47	Chloroplast aggregation during the cold-positioning response in the liverwort Marchantia polymorpha. Journal of Plant Research, 2017, 130, 1061-1070.	2.4	25
48	Temporal and spatial changes in gene expression, metabolite accumulation and phytohormone content in rice seedlings grown under drought stress conditions. Plant Journal, 2017, 90, 61-78.	5.7	173
49	Ectopic colonization of oral bacteria in the intestine drives T _H 1 cell induction and inflammation. Science, 2017, 358, 359-365.	12.6	612
50	A Novel Plasma Membrane-Anchored Protein Regulates Xylem Cell-Wall Deposition through Microtubule-Dependent Lateral Inhibition of Rho GTPase Domains. Current Biology, 2017, 27, 2522-2528.e4.	3.9	91
51	The trans-Golgi Network and the Golgi Stacks Behave Independently During Regeneration After Brefeldin A Treatment in Tobacco BY-2 Cells. Plant and Cell Physiology, 2017, 58, 811-821.	3.1	19
52	The karrikin receptor KAI2 promotes drought resistance in Arabidopsis thaliana. PLoS Genetics, 2017, 13, e1007076.	3.5	140
53	Protonema of the moss Funaria hygrometrica can function as a lead (Pb) adsorbent. PLoS ONE, 2017, 12, e0189726.	2.5	25
54	Oligouridylate Binding Protein 1b Plays an Integral Role in Plant Heat Stress Tolerance. Frontiers in Plant Science, 2016, 7, 853.	3.6	43

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55	Characterization of Shikonin Derivative Secretion in Lithospermum erythrorhizon Hairy Roots as a Model of Lipid-Soluble Metabolite Secretion from Plants. Frontiers in Plant Science, 2016, 7, 1066.	3.6	44
56	OB-III-1Development of wide-range and high-resolution transmission electron microscope acquisition system and correlative light & electron microscope system: Applications for ultrastructural analyses of intracellular compartments and trafficking pathways in plant growth and development. Microscopy (Oxford, England), 2016, 65, i13.1-i13.	1.5	1
57	Delineation of six species of the primitive algal genus Glaucocystis based on in situ ultrastructural characteristics. Scientific Reports, 2016, 6, 29209.	3.3	13
58	Haustorial Hairs Are Specialized Root Hairs That Support Parasitism in the Facultative Parasitic Plant Phtheirospermum japonicum. Plant Physiology, 2016, 170, 1492-1503.	4.8	72
59	N-Glycomic and Microscopic Subcellular Localization Analyses of NPP1, 2 and 6 Strongly Indicate thattrans-Golgi Compartments Participate in the Golgi to Plastid Traffic of Nucleotide Pyrophosphatase/Phosphodiesterases in Rice. Plant and Cell Physiology, 2016, 57, 1610-1628.	3.1	21
60	Morphological and quantitative changes in mitochondria, plastids, and peroxisomes during the log-to-stationary transition of the growth phase in cultured tobacco BY-2 cells. Plant Signaling and Behavior, 2016, 11, e1149669.	2.4	4
61	Deficiency of Starch Synthase IIIa and IVb Alters Starch Granule Morphology from Polyhedral to Spherical in Rice Endosperm. Plant Physiology, 2016, 170, 1255-1270.	4.8	131
62	Synthesis of High-Molecular-Weight Polyhydroxyalkanoates by Marine Photosynthetic Purple Bacteria. PLoS ONE, 2016, 11, e0160981.	2.5	71
63	Development of correlative light and electron microscopy to observe green fluorescent protein-labeled organelles embedded in resin using field-emission electron scanning microscope. Plant Morphology, 2016, 28, 15-21.	0.1	3
64	SNACâ€As, stressâ€responsive NAC transcription factors, mediate ABAâ€inducible leaf senescence. Plant Journal, 2015, 84, 1114-1123.	5.7	202
65	C5-P-02Distribution of intercellular spaces in plant seeds during imbibition and germination observed using X-ray micro-CT. Microscopy (Oxford, England), 2015, 64, i139.2-i139.	1.5	1
66	C2-P-02The ER body in the lateral root cap is involved in mass transport of (K/H)DEL proteins to the vacuole: Using Gigapixel TEM images. Microscopy (Oxford, England), 2015, 64, i123.2-i123.	1.5	1
67	Determination of growth stages and metabolic profiles in Brachypodium distachyon for comparison of developmental context with Triticeae crops. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150964.	2.6	33
68	Specific role of phosphatidylglycerol and functional overlaps with other thylakoid lipids in Arabidopsis chloroplast biogenesis. Plant Cell Reports, 2015, 34, 631-642.	5.6	54
69	Semi-automatic organelle detection on transmission electron microscopic images. Scientific Reports, 2015, 5, 7794.	3.3	5
70	RECG Maintains Plastid and Mitochondrial Genome Stability by Suppressing Extensive Recombination between Short Dispersed Repeats. PLoS Genetics, 2015, 11, e1005080.	3.5	27
71	Th17 Cell Induction by Adhesion of Microbes to Intestinal Epithelial Cells. Cell, 2015, 163, 367-380.	28.9	846
72	Quality control of plant peroxisomes in organ specific manner via autophagy. Journal of Cell Science, 2014, 127, 1161-8.	2.0	105

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73	Five <scp>C</scp>yanophora (<scp>C</scp>yanophorales, <scp>G</scp>laucophyta) species delineated based on morphological and molecular data. Journal of Phycology, 2014, 50, 1058-1069.	2.3	18
74	Wide-Range High-Resolution Transmission Electron Microscopy Reveals Morphological and Distributional Changes of Endomembrane Compartments during Log to Stationary Transition of Growth Phase in Tobacco BY-2 Cells. Plant and Cell Physiology, 2014, 55, 1544-1555.	3.1	23
75	Contribution of NAC Transcription Factors to Plant Adaptation to Land. Science, 2014, 343, 1505-1508.	12.6	222
76	Surface Ornamentation of <i>Cyanophora paradoxa</i> (Cyanophorales, Glaucophyta) Cells as Revealed by Ultra-High Resolution Field Emission Scanning Electron Microscopy. Cytologia, 2014, 79, 119-123.	0.6	11
77	Reconstructing Plant Cells in 3D by Serial Section Electron Tomography. Methods in Molecular Biology, 2014, 1080, 159-170.	0.9	21
78	Development of high resolution TEM image acquisition system by using high-pressure freezing method. Plant Morphology, 2014, 26, 3-8.	0.1	6
79	Pleiotropic effect of sigE overâ€expression on cell morphology, photosynthesis and hydrogen production in Synechocystis sp. <scp>PCC</scp> 6803. Plant Journal, 2013, 76, 456-465.	5.7	37
80	Role of galactolipid biosynthesis in coordinated development of photosynthetic complexes and thylakoid membranes during chloroplast biogenesis in <scp>A</scp>rabidopsis. Plant Journal, 2013, 73, 250-261.	5.7	76
81	Ultrastructure of the rickettsial endosymbiont â€œMIDORIKOâ€•in the green alga Carteria cerasiformis as revealed by high-pressure freezing and freeze-substitution fixation. Protoplasma, 2013, 250, 949-953.	2.1	10
82	Micro-CT observations of the 3D distribution of calcium oxalate crystals in cotyledons during maturation and germination inLotus miyakojimaeseeds. Microscopy (Oxford, England), 2013, 62, 353-361.	1.5	19
83	Photosynthesis of Root Chloroplasts Developed in Arabidopsis Lines Overexpressing GOLDEN2-LIKE Transcription Factors. Plant and Cell Physiology, 2013, 54, 1365-1377.	3.1	94
84	Polarized localization and borate-dependent degradation of the Arabidopsis borate transporter BOR1 in tobacco BY-2 cells. F1000Research, 2013, 2, 185.	1.6	5
85	Lysine Decarboxylase Catalyzes the First Step of Quinolizidine Alkaloid Biosynthesis and Coevolved with Alkaloid Production in Leguminosae. Plant Cell, 2012, 24, 1202-1216.	6.6	115
86	The Ets transcription factor Spi-B is essential for the differentiation of intestinal microfold cells. Nature Immunology, 2012, 13, 729-736.	14.5	196
87	Regulation of Root Greening by Light and Auxin/Cytokinin Signaling in Arabidopsis. Plant Cell, 2012, 24, 1081-1095.	6.6	180
88	ANGUSTIFOLIA, a plant homolog of CtBP/BARS, functions outside the nucleus. Plant Journal, 2011, 68, 788-799.	5.7	34
89	Characterization of Arabidopsis CTP:3-Deoxy-d-manno-2-Octulosonate Cytidylyltransferase (CMP-KDO) Tj ETQq1 1 0.784314 rgBT /Ov Physiology, 2011, 52, 1832-1843.	3.1	40
90	Immunohistochemical observation of indole-3-acetic acid at the IAA synthetic maize coleoptile tips. Plant Signaling and Behavior, 2011, 6, 2013-2022.	2.4	25

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91	Plasma Membrane Aquaporin AqpZ Protein Is Essential for Glucose Metabolism during Photomixotrophic Growth of Synechocystis sp. PCC 6803. Journal of Biological Chemistry, 2011, 286, 25224-25235.	3.4	23
92	Asymmetric cell division of rice zygotes located in embryo sac and produced by in vitro fertilization. Sexual Plant Reproduction, 2010, 23, 211-217.	2.2	38
93	Mapping of the basic aminoâ€acid residues responsible for tubulation and cellular protrusion by the EFC/Fâ€BAR domain of pacsin2/Syndapin II. FEBS Letters, 2010, 584, 1111-1118.	2.8	66
94	Closing Plant Stomata Requires a Homolog of an Aluminum-Activated Malate Transporter. Plant and Cell Physiology, 2010, 51, 354-365.	3.1	159
95	Subcellular membrane curvature mediated by the BAR domain superfamily proteins. Seminars in Cell and Developmental Biology, 2010, 21, 340-349.	5.0	126
96	A Chloroplastic UDP-Glucose Pyrophosphorylase from Arabidopsis Is the Committed Enzyme for the First Step of Sulfolipid Biosynthesis Â. Plant Cell, 2009, 21, 892-909.	6.6	199
97	Exo- and Endocytotic trafficking of SCAMP2. Plant Signaling and Behavior, 2009, 4, 1196-1198.	2.4	13
98	A Mobile Secretory Vesicle Cluster Involved in Mass Transport from the Golgi to the Plant Cell Exterior Â. Plant Cell, 2009, 21, 1212-1229.	6.6	172
99	The Rice Î±-Amylase Glycoprotein Is Targeted from the Golgi Apparatus through the Secretory Pathway to the Plastids Â. Plant Cell, 2009, 21, 2844-2858.	6.6	128
100	Multidrug and Toxic Compound Extrusion-Type Transporters Implicated in Vacuolar Sequestration of Nicotine in Tobacco Roots Â Â. Plant Physiology, 2009, 149, 708-718.	4.8	184
101	Identifying New Components Participating in the Secondary Cell Wall Formation of Vessel Elements in Zinnia and Arabidopsis Â. Plant Cell, 2009, 21, 1155-1165.	6.6	53
102	Developmental changes and organelle biogenesis in the reproductive organs of thermogenic skunk cabbage (Symplocarpus renifolius). Journal of Experimental Botany, 2009, 60, 3909-3922.	4.8	21
103	EFC/F-BAR proteins and the N-WASPâ€“WIP complex induce membrane curvature-dependent actin polymerization. EMBO Journal, 2008, 27, 2817-2828.	7.8	169
104	Cytological and Biochemical Analysis of COF1, an Arabidopsis Mutant of an ABC Transporter Gene. Plant and Cell Physiology, 2007, 48, 1524-1533.	3.1	84
105	Development of series of gateway binary vectors, pGWBs, for realizing efficient construction of fusion genes for plant transformation. Journal of Bioscience and Bioengineering, 2007, 104, 34-41.	2.2	1,492
106	Novel regulation of MHC class II function in B cells. EMBO Journal, 2007, 26, 846-854.	7.8	158
107	Protein Aggregates are Transported to Vacuoles by Macroautophagic Mechanism in Nutrient-Starved Plant Cells. Autophagy, 2006, 2, 96-106.	9.1	100
108	Generation and Characterization of Monoclonal Antibodies That Specifically Recognize p65/L-Plastin Isoform but Not T-Plastin Isoform. Bioscience, Biotechnology and Biochemistry, 2006, 70, 1402-1407.	1.3	5

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109	Rhodococcus equi can survive a phagolysosomal environment in macrophages by suppressing acidification of the phagolysosome. Journal of Medical Microbiology, 2005, 54, 1007-1015.	1.8	72
110	Membrane-anchored prolyl hydroxylase with an export signal from the endoplasmic reticulum. Plant Journal, 2004, 41, 81-94.	5.7	120
111	Protective Effect of OKâ€432 on Mice against Endotoxemia and Infection with Pseudomonas aeruginosa and Salmonella enteritidis. Microbiology and Immunology, 2001, 45, 425-432.	1.4	0
112	Cotyledon cells of Vigna mungo seedlings use at least two distinct autophagic machineries for degradation of starch granules and cellular components. Journal of Cell Biology, 2001, 154, 973-982.	5.2	86
113	Identification of a Membrane-associated Cysteine Protease with Possible Dual Roles in the Endoplasmic Reticulum and Protein Storage Vacuole. Journal of Biological Chemistry, 2001, 276, 742-751.	3.4	20
114	Mass Transport of Proform of a Kdel-Tailed Cysteine Proteinase (Sh-EP) to Protein Storage Vacuoles by Endoplasmic Reticulumâ€"Derived Vesicle Is Involved in Protein Mobilization in Germinating Seeds. Journal of Cell Biology, 2000, 148, 453-464.	5.2	174
115	The RopGEF KARAPPO is Essential for the Initiation of Vegetative Reproduction in Marchantia. SSRN Electronic Journal, 0, , .	0.4	0