Miyo T Morita

List of Publications by Year
in descending order

63 papers	5,628 citations	117625 34 h-index	133252 59 g-index
82 all docs	82 docs citations	82 times ranked	5062 citing authors

#	Article	IF	Citations
1	A Genetic Framework for the Control of Cell Division and Differentiation in the Root Meristem. Science, 2008, 322, 1380-1384.	12.6	802
2	Role of PIN-mediated auxin efflux in apical hook development of<i>Arabidopsis thaliana</i>. Development (Cambridge), 2010, 137, 607-617.	2.5	297
3	Light-mediated polarization of the PIN3 auxin transporter for the phototropic response in Arabidopsis. Nature Cell Biology, 2011, 13, 447-452.	10.3	295
4	Involvement of the Vacuoles of the Endodermis in the Early Process of Shoot Gravitropism in Arabidopsis. Plant Cell, 2002, 14, 47-56.	6.6	291
5	Directional Gravity Sensing in Gravitropism. Annual Review of Plant Biology, 2010, 61, 705-720.	18.7	289
6	Gravity-induced PIN transcytosis for polarization of auxin fluxes in gravity-sensing root cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22344-22349.	7.1	287
7	Gravity sensing and signaling. Current Opinion in Plant Biology, 2004, 7, 712-718.	7.1	251
8	SGR2, a Phospholipase-Like Protein, and ZIG/SGR4, a SNARE, Are Involved in the Shoot Gravitropism of Arabidopsis. Plant Cell, 2002, 14, 33-46.	6.6	220
9	A SNARE Complex Unique to Seed Plants Is Required for Protein Storage Vacuole Biogenesis and Seed Development of<i>Arabidopsis thaliana</i>. Plant Cell, 2008, 20, 3006-3021.	6.6	213
10	The VTI Family of SNARE Proteins Is Necessary for Plant Viability and Mediates Different Protein Transport Pathways[W]. Plant Cell, 2003, 15, 2885-2899.	6.6	194
11	A SNARE complex containing SGR3/AtVAM3 and ZIG/VTI11 in gravity-sensing cells is important forArabidopsisshoot gravitropism. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8589-8594.	7.1	187
12	Phage DNA packaging. Genes To Cells, 2003, 2, 537-545.	1.2	159
13	The Arabidopsis LAZY1 Family Plays a Key Role in Gravity Signaling within Statocytes and in Branch Angle Control of Roots and Shoots. Plant Cell, 2017, 29, 1984-1999.	6.6	143
14	Dynamic Aspects of Ion Accumulation by Vesicle Traffic Under Salt Stress in Arabidopsis. Plant and Cell Physiology, 2009, 50, 2023-2033.	3.1	130
15	Amyloplasts and Vacuolar Membrane Dynamics in the Living Graviperceptive Cell of the Arabidopsis Inflorescence Stem. Plant Cell, 2005, 17, 548-558.	6.6	118
16	Auxin transport and activity regulate stomatal patterning and development. Nature Communications, 2014, 5, 3090.	12.8	118
17	Mechanism of Higher Plant Gravity Sensing. American Journal of Botany, 2013, 100, 91-100.	1.7	98
18	DNA Packaging ATPase of Bacteriophage T3. Virology, 1993, 193, 748-752.	2.4	88

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19	An<i>Arabidopsis</i>E3 Ligase, SHOOT GRAVITROPISM9, Modulates the Interaction between Statoliths and F-Actin in Gravity Sensing Â. Plant Cell, 2011, 23, 1830-1848.	6.6	87
20	A C2H2-type zinc finger protein, SGR5, is involved in early events of gravitropism in Arabidopsis inflorescence stems. Plant Journal, 2006, 47, 619-628.	5.7	81
21	Polar recruitment of RLD by LAZY1-like protein during gravity signaling in root branch angle control. Nature Communications, 2020, 11, 76.	12.8	80
22	Gravity sensing and signal conversion in plant gravitropism. Journal of Experimental Botany, 2019, 70, 3495-3506.	4.8	79
23	Transcriptional regulation of PIN genes by FOUR LIPS and MYB88 during Arabidopsis root gravitropism. Nature Communications, 2015, 6, 8822.	12.8	74
24	From The Cover: Shoot circumnutation and winding movements require gravisensing cells. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18742-18747.	7.1	73
25	Polar vacuolar distribution is essential for accurate asymmetric division of <i>Arabidopsis</i> zygotes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2338-2343.	7.1	71
26	ZIP Genes Encode Proteins Involved in Membrane Trafficking of the TGNâ€"PVC/Vacuoles. Plant and Cell Physiology, 2009, 50, 2057-2068.	3.1	69
27	Vacuolar/pre-vacuolar compartment Qa-SNAREs VAM3/SYP22 and PEP12/SYP21 have interchangeable functions in Arabidopsis. Plant Journal, 2010, 64, 864-873.	5.7	68
28	Regulation of organ straightening and plant posture by an actinâ€"myosin XI cytoskeleton. Nature Plants, 2015, 1, 15031.	9.3	60
29	Structural and Functional Domains of the Large Subunit of the Bacteriophage T3 DNA Packaging Enzyme: importance of the C-Terminal Region in Prohead Binding. Journal of Molecular Biology, 1995, 245, 635-644.	4.2	59
30	Amyloplast displacement is necessary for gravisensing in Arabidopsis shoots as revealed by a centrifuge microscope. Plant Journal, 2013, 76, 648-660.	5.7	51
31	Defects in Dynamics and Functions of Actin Filament in Arabidopsis Caused by the Dominant-Negative Actin fiz1-Induced Fragmentation of Actin Filament. Plant and Cell Physiology, 2010, 51, 333-338.	3.1	50
32	Conversion of Functional Specificity in Qb-SNARE VTI1 Homologues of Arabidopsis. Current Biology, 2005, 15, 555-560.	3.9	43
33	Bridging the gap between amyloplasts and directional auxin transport in plant gravitropism. Current Opinion in Plant Biology, 2019, 52, 54-60.	7.1	41
34	Mitochondrial Pyruvate Dehydrogenase Contributes to Auxin-Regulated Organ Development. Plant Physiology, 2019, 180, 896-909.	4.8	41
35	Arabidopsis thaliana: A Model for the Study of Root and Shoot Gravitropism. The Arabidopsis Book, 2002, 1, e0043.	0.5	35
36	The occurrence of â€˜bulbsâ€™, a complex configuration of the vacuolar membrane, is affected by mutations of vacuolar SNARE and phospholipase in Arabidopsis. Plant Journal, 2011, 68, 64-73.	5.7	35

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37	Loss-of-Function Mutations of Retromer Large Subunit Genes Suppress the Phenotype of an<i>Arabidopsis zig</i>Mutant That Lacks Qb-SNARE VTI11 Â. Plant Cell, 2010, 22, 159-172.	6.6	33
38	Analysis of functional domains of the packaging proteins of bacteriophage T3 by site-directed mutagenesis. Journal of Molecular Biology, 1994, 235, 248-259.	4.2	29
39	endodermal-amyloplast less 1 is a novel allele of SHORT-ROOT. Advances in Space Research, 2007, 39, 1127-1133.	2.6	27
40	Identification of gravitropic response indicator genes in<i>Arabidopsis</i>inflorescence stems. Plant Signaling and Behavior, 2014, 9, e29570.	2.4	27
41	Role of Endodermal Cell Vacuoles in Shoot Gravitropism. Journal of Plant Growth Regulation, 2002, 21, 113-119.	5.1	26
42	The Plant Endomembrane Systemâ€"A Complex Network Supporting Plant Development and Physiology. Plant and Cell Physiology, 2014, 55, 667-671.	3.1	25
43	A Unique HEAT Repeat-Containing Protein SHOOT GRAVITROPISM6 is Involved in Vacuolar Membrane Dynamics in Gravity-Sensing Cells of Arabidopsis Inflorescence Stem. Plant and Cell Physiology, 2014, 55, 811-822.	3.1	23
44	An ABC transporter B family protein, ABCB19, is required for cytoplasmic streaming and gravitropism of the inflorescence stems. Plant Signaling and Behavior, 2016, 11, e1010947.	2.4	21
45	Connected function of PRAF/RLD and GNOM in membrane trafficking controls intrinsic cell polarity in plants. Nature Communications, 2022, 13, 7.	12.8	19
46	Developmental changes in crossover frequency in Arabidopsis. Plant Journal, 2011, 65, 589-599.	5.7	18
47	Analysis of the Fine Structure of the Prohead Binding Domain of the Packaging Protein of Bacteriophage T3 Using a Hexapeptide, an Analog of a Prohead Binding Site. Virology, 1995, 211, 516-524.	2.4	17
48	Dynamic behavior of plastids related to environmental response. Current Opinion in Plant Biology, 2012, 15, 722-728.	7.1	17
49	Live Cell Imaging of Cytoskeletal and Organelle Dynamics in Gravity-Sensing Cells in Plant Gravitropism. Methods in Molecular Biology, 2015, 1309, 57-69.	0.9	12
50	Gravity-Sensing Tissues for Gravitropism Are Required for â€œAnti-Gravitropicâ€•Phenotypes of lzy Multiple Mutants in Arabidopsis. Plants, 2020, 9, 615.	3.5	12
51	LAZY1-LIKE-mediated gravity signaling pathway in root gravitropic set-point angle control. Plant Physiology, 2021, 187, 1087-1095.	4.8	9
52	Micromanipulation of amyloplasts with optical tweezers in <i>Arabidopsis</i> stems. Plant Biotechnology, 2020, 37, 405-415.	1.0	8
53	Isolation of New Gravitropic Mutants under Hypergravity Conditions. Frontiers in Plant Science, 2016, 7, 1443.	3.6	7
54	A Three-Dimensional Scanning System for Digital Archiving and Quantitative Evaluation of <i>Arabidopsis</i> Plant Architectures. Plant and Cell Physiology, 2021, 62, 1975-1982.	3.1	4

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55	A mathematical model explores the contributions of bending and stretching forces to shoot gravitropism in Arabidopsis. Quantitative Plant Biology, 2020, 1, .	2.0	4
56	Efficient In Planta Detection and Dissection of De Novo Mutation Events in the<i>Arabidopsis thaliana</i>Disease Resistance Gene<i>UNI</i>. Plant and Cell Physiology, 2016, 57, 1123-1132.	3.1	3
57	Design and chemical synthesis of root gravitropism inhibitors: Bridged analogues of ku-76 have more potent activity. Phytochemistry, 2020, 179, 112508.	2.9	3
58	Essential structural features of (2Z,4E)-5-phenylpenta-2,4-dienoic acid for inhibition of root gravitropism. Phytochemistry, 2020, 172, 112287.	2.9	3
59	Centrifuge Microscopy to Analyze the Sedimentary Movements of Amyloplasts. Bio-protocol, 2014, 4, .	0.4	2
60	Signal Transduction in Gravitropism. , 0, , 21-45.		1
61	Molecular Mechanism of Plant Gravitropism. Kagaku To Seibutsu, 2017, 55, 624-630.	0.0	0
62	Live-cell imaging of plant gravity sensing by using a vertical-stage confocal microscope and a centrifuge microscope. Plant Morphology, 2012, 24, 23-32.	0.1	0
63	Analysis of a mathematical model of shoot gravitropism in <i>Arabidopsis thaliana </i>. Plant Morphology, 2021, 33, 71-76.	0.1	0