Jaideep Mathur

List of Publications by Year
in descending order

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55 papers	3,425 citations	159585 30 h-index	175258 52 g-index
74 all docs	74 docs citations	74 times ranked	2673 citing authors

#	Article	IF	Citations
1	Root Hair Formation: F-Actin-Dependent Tip Growth Is Initiated by Local Assembly of Profilin-Supported F-Actin Meshworks Accumulated within Expansin-Enriched Bulges. Developmental Biology, 2000, 227, 618-632.	2.0	331
2	Mutations in Actin-Related Proteins 2 and 3 Affect Cell Shape Development in Arabidopsis. Plant Cell, 2003, 15, 1632-1645.	6.6	250
3	Microtubule Stabilization Leads to Growth Reorientation in Arabidopsis Trichomes. Plant Cell, 2000, 12, 465-477.	6.6	223
4	Arabidopsis CROOKEDencodes for the smallest subunit of the ARP2/3 complex and controls cell shape by region specific fine F-actin formation. Development (Cambridge), 2003, 130, 3137-3146.	2.5	188
5	Simultaneous Visualization of Peroxisomes and Cytoskeletal Elements Reveals Actin and Not Microtubule-Based Peroxisome Motility in Plants. Plant Physiology, 2002, 128, 1031-1045.	4.8	187
6	Actin-based motility of endosomes is linked to the polar tip growth of root hairs. European Journal of Cell Biology, 2005, 84, 609-621.	3.6	170
7	Plastid Stromule Branching Coincides with Contiguous Endoplasmic Reticulum Dynamics Â Â. Plant Physiology, 2011, 155, 1667-1677.	4.8	138
8	A Novel Localization Pattern for an EB1-like Protein Links Microtubule Dynamics to Endomembrane Organization. Current Biology, 2003, 13, 1991-1997.	3.9	127
9	Peroxule extension over ERâ€defined paths constitutes a rapid subcellular response to hydroxyl stress. Plant Journal, 2009, 59, 231-242.	5.7	126
10	Microtubule plus-ends reveal essential links between intracellular polarization and localized modulation of endocytosis during division-plane establishment in plant cells. BMC Biology, 2005, 3, 11.	3.8	105
11	Microtubules and Microfilaments in Cell Morphogenesis in Higher Plants. Current Biology, 2002, 12, R669-R676.	3.9	103
12	Cell shape development in plants. Trends in Plant Science, 2004, 9, 583-590.	8.8	101
13	Differential Coloring Reveals That Plastids Do Not Form Networks for Exchanging Macromolecules. Plant Cell, 2012, 24, 1465-1477.	6.6	84
14	AtMic60 Is Involved in Plant Mitochondria Lipid Trafficking and Is Part of a Large Complex. Current Biology, 2016, 26, 627-639.	3.9	81
15	Mitochondrial pleomorphy in plant cells is driven by contiguous ER dynamics. Frontiers in Plant Science, 2015, 6, 783.	3.6	80
16	Actin Control Over Microtubules Suggested by DISTORTED2 Encoding the Arabidopsis ARPC2 Subunit Homolog. Plant and Cell Physiology, 2004, 45, 813-822.	3.1	74
17	The ARP2/3 complex: giving plant cells a leading edge. BioEssays, 2005, 27, 377-387.	2.5	74
18	The Arabidopsis TUBULIN-FOLDING COFACTOR A Gene Is Involved in the Control of the Î±/Î²-Tubulin Monomer Balance. Plant Cell, 2002, 14, 2265-2276.	6.6	71

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19	The Arabidopsis STICHEL Gene Is a Regulator of Trichome Branch Number and Encodes a Novel Protein. Plant Physiology, 2003, 131, 643-655.	4.8	63
20	mEosFP-Based Green-to-Red Photoconvertible Subcellular Probes for Plants Â. Plant Physiology, 2010, 154, 1573-1587.	4.8	55
21	Local interactions shape plant cells. Current Opinion in Cell Biology, 2006, 18, 40-46.	5.4	54
22	Organelle Extensions in Plant Cells^F. Journal of Integrative Plant Biology, 2012, 54, 851-867.	8.5	53
23	Pavement cell chloroplast behaviour and interactions with other organelles in Arabidopsis thaliana. Journal of Cell Science, 2018, 131, .	2.0	52
24	The illuminated plant cell. Trends in Plant Science, 2007, 12, 506-513.	8.8	51
25	High Light Intensity Leads to Increased Peroxule-Mitochondria Interactions in Plants. Frontiers in Cell and Developmental Biology, 2016, 4, 6.	3.7	50
26	Functional Analysis of the Tubulin-Folding Cofactor C in Arabidopsis thaliana. Current Biology, 2002, 12, 1519-1523.	3.9	49
27	Epidermal Pavement Cells of Arabidopsis Have Chloroplasts. Plant Physiology, 2016, 171, 723-6.	4.8	49
28	The myth of interconnected plastids and related phenomena. Protoplasma, 2015, 252, 359-371.	2.1	45
29	Correlated behavior implicates stromules in increasing the interactive surface between plastids and ER tubules. Plant Signaling and Behavior, 2011, 6, 715-718.	2.4	43
30	Simultaneous live-imaging of peroxisomes and the ER in plant cells suggests contiguity but no luminal continuity between the two organelles. Frontiers in Physiology, 2013, 4, 196.	2.8	37
31	Fluorescent Protein Aided Insights on Plastids and their Extensions: A Critical Appraisal. Frontiers in Plant Science, 2015, 6, 1253.	3.6	32
32	Agrobacterium-derived cytokinin influences plastid morphology and starch accumulation in Nicotiana benthamiana during transient assays. BMC Plant Biology, 2014, 14, 127.	3.6	31
33	Visualizing the actin cytoskeleton in living plant cells using a photo-convertible mEos::FABD-mTn fluorescent fusion protein. Plant Methods, 2008, 4, 21.	4.3	21
34	New insights on stromules: Stroma filled tubules extended by independent plastids. Plant Signaling and Behavior, 2012, 7, 1132-1137.	2.4	21
35	Synchronously developing collet hairs in Arabidopsis thaliana provide an easily accessible system for studying nuclear movement and endoreduplication. Journal of Experimental Botany, 2012, 63, 4165-4178.	4.8	19
36	Green-to-Red Photoconvertible mEosFP-Aided Live Imaging in Plants. Methods in Enzymology, 2012, 504, 163-181.	1.0	18

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37	Color Recovery after Photoconversion of H2B::mEosFP Allows Detection of Increased Nuclear DNA Content in Developing Plant Cells Â Â. Plant Physiology, 2012, 158, 95-106.	4.8	17
38	On the relationship between endoreduplication and collet hair initiation and tip growth, as determined using six Arabidopsis thaliana root-hair mutants. Journal of Experimental Botany, 2015, 66, 3285-3295.	4.8	16
39	Photoâ€convertible fluorescent proteins as tools for fresh insights on subcellular interactions in plants. Journal of Microscopy, 2016, 263, 148-157.	1.8	15
40	Novel fluorochromes label tonoplast in living plant cells and reveal changes in vacuolar organization after treatment with protein phosphatase inhibitors. Protoplasma, 2018, 255, 829-839.	2.1	14
41	Organelle extensions in plant cells. Plant Physiology, 2021, 185, 593-607.	4.8	14
42	Trichome cell morphogenesis in Arabidopsis: a continuum of cellular decisionsThis review is one of a selection of papers published in the Special Issue on Plant Cell Biology.. Canadian Journal of Botany, 2006, 84, 604-612.	1.1	12
43	Fluorescent Protein Flow within Stromules. Plant Cell, 2013, 25, 2771-2772.	6.6	12
44	Conservation of boundary extension mechanisms between plants and animals. Journal of Cell Biology, 2005, 168, 679-682.	5.2	11
45	Illuminating subcellular structures and dynamics in plants: a fluorescent protein toolboxThis review is one of a selection of papers published in the Special Issue on Plant Cell Biology.. Canadian Journal of Botany, 2006, 84, 515-522.	1.1	10
46	Peroxisome Mitochondria Inter-relations in Plants. Sub-Cellular Biochemistry, 2018, 89, 417-433.	2.4	9
47	The ER Is a Common Mediator for the Behavior and Interactions of Other Organelles. Frontiers in Plant Science, 2022, 13, 846970.	3.6	8
48	Rapid peroxisomal responses to ROS suggest an alternative mechanistic model for post-biogenesis peroxisomal life cycle in plants. Plant Signaling and Behavior, 2009, 4, 787-789.	2.4	7
49	Large Cellular Inclusions Accumulate in Arabidopsis Roots Exposed to Low-Sulfur Conditions. Plant Physiology, 2015, 168, 1573-1589.	4.8	7
50	Plastid Envelope-Localized Proteins Exhibit a Stochastic Spatiotemporal Relationship to Stromules. Frontiers in Plant Science, 2018, 9, 754.	3.6	6
51	Review: Morphology, behaviour and interactions of organelles. Plant Science, 2020, 301, 110662.	3.6	6
52	Signaling to the Actin Cytoskeleton During Cell Morphogenesis and Patterning. Signaling and Communication in Plants, 2009, , 135-153.	0.7	3
53	Live Imaging of Peroxisomes and Peroxules in Plants. , 2014, , 233-253.		2
54	Evolving Views on Plastid Pleomorphy. Plant Cell Monographs, 2018, , 185-204.	0.4	0

#	Article	IF	Citations
55	Photo-Convertible Reporters for Selective Visualization of Subcellular Events and Interactions. Plant Cell Monographs, 2014, , 431-453.	0.4	0