

Arun Sampathkumar

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,532
citations

331670

21
h-index

315739

38
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46
all docs

46
docs citations

46
times ranked

2809
citing authors

#	ARTICLE	IF	CITATIONS
1	2â€²,3â€²-cAMP treatment mimics the stress molecular response in <i>Arabidopsis thaliana</i> . <i>Plant Physiology</i> , 2022, 188, 1966-1978.	4.8	21
2	Chloroplast translational regulation uncovers nonessential photosynthesis genes as key players in plant cold acclimation. <i>Plant Cell</i> , 2022, 34, 2056-2079.	6.6	25
3	De-etiolation-induced protein 1 (DEI1) mediates assembly of the cytochrome b6f complex in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2022, 13, .	12.8	6
4	Selective autophagy regulates heat stress memory in <i>Arabidopsis</i> by NBR1-mediated targeting of HSP90.1 and ROF1. <i>Autophagy</i> , 2021, 17, 2184-2199.	9.1	68
5	Cell wall modification by the xyloglucan endotransglucosylase/hydrolase <i>XTH19</i> influences freezing tolerance after cold and subzero acclimation. <i>Plant, Cell and Environment</i> , 2021, 44, 915-930.	5.7	43
6	A network-based framework for shape analysis enables accurate characterization of leaf epidermal cells. <i>Nature Communications</i> , 2021, 12, 458.	12.8	14
7	Long-term single-cell imaging and simulations of microtubules reveal principles behind wall patterning during proto-xylem development. <i>Nature Communications</i> , 2021, 12, 669.	12.8	26
8	Autophagy complements metalloprotease FtsH6 in degrading plastid heat shock protein HSP21 during heat stress recovery. <i>Journal of Experimental Botany</i> , 2021, , .	4.8	6
9	KATANIN and CLASP function at different spatial scales to mediate microtubule response to mechanical stress in <i>Arabidopsis</i> cotyledons. <i>Current Biology</i> , 2021, 31, 3262-3274.e6.	3.9	31
10	Pod indehiscence in common bean is associated with the fine regulation of <i>PvMYB26</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 1617-1633.	4.8	29
11	Subcellular Localization of Seed-Expressed LEA_4 Proteins Reveals Liquid-Liquid Phase Separation for LEA9 and for LEA48 Homo- and LEA42-LEA48 Heterodimers. <i>Biomolecules</i> , 2021, 11, 1770.	4.0	13
12	Microtubule-Mediated Wall Anisotropy Contributes to Leaf Blade Flattening. <i>Current Biology</i> , 2020, 30, 3972-3985.e6.	3.9	69
13	EPSIN1 and MTV1 define functionally overlapping but molecularly distinct <i>trans</i> -Golgi network subdomains in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25880-25889.	7.1	36
14	Long-term live-cell imaging techniques for visualizing pavement cell morphogenesis. <i>Methods in Cell Biology</i> , 2020, 160, 365-380.	1.1	5
15	Mechanical feedback-loop regulation of morphogenesis in plants. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	34
16	A moonlighting role for enzymes of glycolysis in the co-localization of mitochondria and chloroplasts. <i>Nature Communications</i> , 2020, 11, 4509.	12.8	47
17	Live Cell Imaging of Microtubule Cytoskeleton and Micromechanical Manipulation of the <i>Arabidopsis</i> Shoot Apical Meristem. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	2
18	Cytoskeleton Architecture Regulates Glycolysis Coupling Cellular Metabolism to Mechanical Cues. <i>Trends in Biochemical Sciences</i> , 2020, 45, 637-638.	7.5	24

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19	Plant Biology: Bending of Plant Organs. <i>Current Biology</i> , 2020, 30, R402-R405.	3.9	4
20	Quantification of Cytoskeletal Dynamics in Time-lapse Recordings. <i>Current Protocols in Plant Biology</i> , 2019, 4, e20091.	2.8	7
21	Primary wall cellulose synthase regulates shoot apical meristem mechanics and growth. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	36
22	Insights into the Cell Wall and Cytoskeletal Regulation by Mechanical Forces in Plants. <i>Plant Cell Monographs</i> , 2019, , 23-36.	0.4	0
23	Hitting the Wall—Sensing and Signaling Pathways Involved in Plant Cell Wall Remodeling in Response to Abiotic Stress. <i>Plants</i> , 2018, 7, 89.	3.5	110
24	Getting into shape: the mechanics behind plant morphogenesis. <i>Current Opinion in Plant Biology</i> , 2018, 46, 25-31.	7.1	53
25	<i>AtRsgA</i> from <i>Arabidopsis thaliana</i> is important for maturation of the small subunit of the chloroplast ribosome. <i>Plant Journal</i> , 2018, 96, 404-420.	5.7	9
26	FamNet: A Framework to Identify Multiplied Modules Driving Pathway Expansion in Plants. <i>Plant Physiology</i> , 2016, 170, 1878-1894.	4.8	63
27	An epidermis-driven mechanism positions and scales stem cell niches in plants. <i>Science Advances</i> , 2016, 2, e1500989.	10.3	109
28	Visualization of cellulose synthases in <i>Arabidopsis</i> secondary cell walls. <i>Science</i> , 2015, 350, 198-203.	12.6	132
29	Live Cell Imaging of the Cytoskeleton and Cell Wall Enzymes in Plant Cells. <i>Methods in Molecular Biology</i> , 2015, 1242, 133-141.	0.9	5
30	Subcellular and supracellular mechanical stress prescribes cytoskeleton behavior in <i>Arabidopsis</i> cotyledon pavement cells. <i>ELife</i> , 2014, 3, e01967.	6.0	323
31	Quantitative analyses of the plant cytoskeleton reveal underlying organizational principles. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140362.	3.4	7
32	Physical Forces Regulate Plant Development and Morphogenesis. <i>Current Biology</i> , 2014, 24, R475-R483.	3.9	146
33	Patterning and Lifetime of Plasma Membrane-Localized Cellulose Synthase Is Dependent on Actin Organization in <i>Arabidopsis</i> Interphase Cells. <i>Plant Physiology</i> , 2013, 162, 675-688.	4.8	171
34	CHITINASE-LIKE1/POM-POM1 and Its Homolog CTL2 Are Glucan-Interacting Proteins Important for Cellulose Biosynthesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 589-607.	6.6	158
35	POM-POM2/CELLULOSE SYNTHASE INTERACTING1 Is Essential for the Functional Association of Cellulose Synthase and Microtubules in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 163-177.	6.6	252
36	Live Cell Imaging Reveals Structural Associations between the Actin and Microtubule Cytoskeleton in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 2302-2313.	6.6	151

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37	The Plasma Membrane and the Cell Wall. Plant Cell Monographs, 2011, , 57-85.	0.4	2
38	Identification of a cellulose synthase-associated protein required for cellulose biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12866-12871.	7.1	228
39	Laying down the bricks: logistic aspects of cell wall biosynthesis. Current Opinion in Plant Biology, 2008, 11, 647-652.	7.1	45