

Siobhan A Braybrook

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,492
citations

304743

22
h-index

477307

29
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38
all docs

38
docs citations

38
times ranked

4001
citing authors

#	ARTICLE	IF	CITATIONS
1	Pectin-Induced Changes in Cell Wall Mechanics Underlie Organ Initiation in Arabidopsis. <i>Current Biology</i> , 2011, 21, 1720-1726.	3.9	550
2	Genes directly regulated by LEAFY COTYLEDON2 provide insight into the control of embryo maturation and somatic embryogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3468-3473.	7.1	317
3	LECs go crazy in embryo development. <i>Trends in Plant Science</i> , 2008, 13, 624-630.	8.8	284
4	<i>Arabidopsis</i> LEAFY COTYLEDON2 induces maturation traits and auxin activity: Implications for somatic embryogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3151-3156.	7.1	282
5	Cell wall mechanics and growth control in plants: the role of pectins revisited. <i>Frontiers in Plant Science</i> , 2012, 3, 121.	3.6	255
6	Mechano-Chemical Aspects of Organ Formation in <i>Arabidopsis thaliana</i> : The Relationship between Auxin and Pectin. <i>PLoS ONE</i> , 2013, 8, e57813.	2.5	243
7	How to let go: pectin and plant cell adhesion. <i>Frontiers in Plant Science</i> , 2015, 6, 523.	3.6	228
8	Tuning of pectin methylesterification: consequences for cell wall biomechanics and development. <i>Planta</i> , 2015, 242, 791-811.	3.2	199
9	Three grape CBF/DREB1 genes respond to low temperature, drought and abscisic acid. <i>Plant, Cell and Environment</i> , 2006, 29, 1410-1421.	5.7	173
10	How a Plant Builds Leaves. <i>Plant Cell</i> , 2010, 22, 1006-1018.	6.6	149
11	Anisotropic growth is achieved through the additive mechanical effect of material anisotropy and elastic asymmetry. <i>ELife</i> , 2018, 7, .	6.0	106
12	Shrinking the hammer: micromechanical approaches to morphogenesis. <i>Journal of Experimental Botany</i> , 2013, 64, 4651-4662.	4.8	94
13	Acid growth: an ongoing trip. <i>Journal of Experimental Botany</i> , 2018, 69, 137-146.	4.8	86
14	Of puzzles and pavements: a quantitative exploration of leaf epidermal cell shape. <i>New Phytologist</i> , 2019, 221, 540-552.	7.3	66
15	Leaf Asymmetry as a Developmental Constraint Imposed by Auxin-Dependent Phyllotactic Patterning. <i>Plant Cell</i> , 2012, 24, 2318-2327.	6.6	64
16	Shifting foundations: the mechanical cell wall and development. <i>Current Opinion in Plant Biology</i> , 2016, 29, 115-120.	7.1	63
17	Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences. <i>Frontiers in Plant Science</i> , 2017, 8, 900.	3.6	61
18	Probing the mechanical contributions of the pectin matrix. <i>Plant Signaling and Behavior</i> , 2012, 7, 1037-1041.	2.4	58

#	ARTICLE	IF	CITATIONS
19	Branched Pectic Galactan in Phloem-Sieve-Element Cell Walls: Implications for Cell Mechanics. <i>Plant Physiology</i> , 2018, 176, 1547-1558.	4.8	58
20	An Automated Confocal Micro-Extensometer Enables in Vivo Quantification of Mechanical Properties with Cellular Resolution. <i>Plant Cell</i> , 2017, 29, 2959-2973.	6.6	47
21	TANMEI/EMB2757 Encodes a WD Repeat Protein Required for Embryo Development in Arabidopsis. <i>Plant Physiology</i> , 2005, 139, 163-173.	4.8	34
22	Measuring the elasticity of plant cells with atomic force microscopy. <i>Methods in Cell Biology</i> , 2015, 125, 237-254.	1.1	26
23	Towards an understanding of spiral patterning in the <i>Sargassum muticum</i> shoot apex. <i>Scientific Reports</i> , 2017, 7, 13887.	3.3	12
24	Identification and selection of optimal reference genes for qPCR-based gene expression analysis in <i>Fucus distichus</i> under various abiotic stresses. <i>PLoS ONE</i> , 2021, 16, e0233249.	2.5	11
25	Analyzing Cell Wall Elasticity After Hormone Treatment: An Example Using Tobacco BY-2 Cells and Auxin. <i>Methods in Molecular Biology</i> , 2017, 1497, 125-133.	0.9	6
26	Plant Development: Lessons from Getting It Twisted. <i>Current Biology</i> , 2017, 27, R758-R760.	3.9	5
27	Fake news blues: A GUS staining protocol to reduce false-negative data. <i>Plant Direct</i> , 2022, 6, e367.	1.9	5
28	Brown algal cell walls and development. <i>Seminars in Cell and Developmental Biology</i> , 2023, 134, 103-111.	5.0	3
29	Auxin and Organogenesis: Initiation of Organs and Nurturing a Scientific Spirit. <i>Plant Cell</i> , 2019, 31, 1397-1397.	6.6	2
30	Atomic force microscopy based analysis of cell-wall elasticity in macroalgae. , 2018, , 335-347.		2