Siobhan A Braybrook

List of Publications by Year
in descending order

30 papers	3,492 citations	304743 22 h-index	477307 29 g-index
38 all docs	38 docs citations	38 times ranked	4001 citing authors

#	Article	IF	Citations
1	Brown algal cell walls and development. Seminars in Cell and Developmental Biology, 2023, 134, 103-111.	5.0	3
2	Fake news blues: A GUS staining protocol to reduce falseâ€negative data. Plant Direct, 2022, 6, e367.	1.9	5
3	Identification and selection of optimal reference genes for qPCR-based gene expression analysis in Fucus distichus under various abiotic stresses. PLoS ONE, 2021, 16, e0233249.	2.5	11
4	Auxin and Organogenesis: Initiation of Organs and Nurturing a Scientific Spirit. Plant Cell, 2019, 31, 1397-1397.	6.6	2
5	Of puzzles and pavements: a quantitative exploration of leaf epidermal cell shape. New Phytologist, 2019, 221, 540-552.	7.3	66
6	Acid growth: an ongoing trip. Journal of Experimental Botany, 2018, 69, 137-146.	4.8	86
7	Branched Pectic Galactan in Phloem-Sieve-Element Cell Walls: Implications for Cell Mechanics. Plant Physiology, 2018, 176, 1547-1558.	4.8	58
8	Atomic force microscopy based analysis of cell-wall elasticity in macroalgae. , 2018, , 335-347.		2
9	Anisotropic growth is achieved through the additive mechanical effect of material anisotropy and elastic asymmetry. ELife, 2018, 7, .	6.0	106
10	Plant Development: Lessons from Getting It Twisted. Current Biology, 2017, 27, R758-R760.	3.9	5
11	An Automated Confocal Micro-Extensometer Enables in Vivo Quantification of Mechanical Properties with Cellular Resolution. Plant Cell, 2017, 29, 2959-2973.	6.6	47
12	Towards an understanding of spiral patterning in the Sargassum muticum shoot apex. Scientific Reports, 2017, 7, 13887.	3.3	12
13	Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences. Frontiers in Plant Science, 2017, 8, 900.	3.6	61
14	Analyzing Cell Wall Elasticity After Hormone Treatment: An Example Using Tobacco BY-2 Cells and Auxin. Methods in Molecular Biology, 2017, 1497, 125-133.	0.9	6
15	Shifting foundations: the mechanical cell wall and development. Current Opinion in Plant Biology, 2016, 29, 115-120.	7.1	63
16	How to let go: pectin and plant cell adhesion. Frontiers in Plant Science, 2015, 6, 523.	3.6	228
17	Measuring the elasticity of plant cells with atomic force microscopy. Methods in Cell Biology, 2015, 125, 237-254.	1.1	26
18	Tuning of pectin methylesterification: consequences for cell wall biomechanics and development. Planta, 2015, 242, 791-811.	3.2	199

#	Article	IF	Citations
19	Shrinking the hammer: micromechanical approaches to morphogenesis. Journal of Experimental Botany, 2013, 64, 4651-4662.	4.8	94
20	Mechano-Chemical Aspects of Organ Formation in Arabidopsis thaliana: The Relationship between Auxin and Pectin. PLoS ONE, 2013, 8, e57813.	2.5	243
21	Leaf Asymmetry as a Developmental Constraint Imposed by Auxin-Dependent Phyllotactic Patterning. Plant Cell, 2012, 24, 2318-2327.	6.6	64
22	Probing the mechanical contributions of the pectin matrix. Plant Signaling and Behavior, 2012, 7, 1037-1041.	2.4	58
23	Cell wall mechanics and growth control in plants: the role of pectins revisited. Frontiers in Plant Science, 2012, 3, 121.	3.6	255
24	Pectin-Induced Changes in Cell Wall Mechanics Underlie Organ Initiation in Arabidopsis. Current Biology, 2011, 21, 1720-1726.	3.9	550
25	How a Plant Builds Leaves. Plant Cell, 2010, 22, 1006-1018.	6.6	149
26	LECs go crazy in embryo development. Trends in Plant Science, 2008, 13, 624-630.	8.8	284
27	<i>Arabidopsis</i> LEAFY COTYLEDON2 induces maturation traits and auxin activity: Implications for somatic embryogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3151-3156.	7.1	282
28	Three grape CBF/DREB1 genes respond to low temperature, drought and abscisic acid. Plant, Cell and Environment, 2006, 29, 1410-1421.	5.7	173
29	Genes directly regulated by LEAFY COTYLEDON2 provide insight into the control of embryo maturation and somatic embryogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3468-3473.	7.1	317
30	TANMEI/EMB2757 Encodes a WD Repeat Protein Required for Embryo Development in Arabidopsis. Plant Physiology, 2005, 139, 163-173.	4.8	34