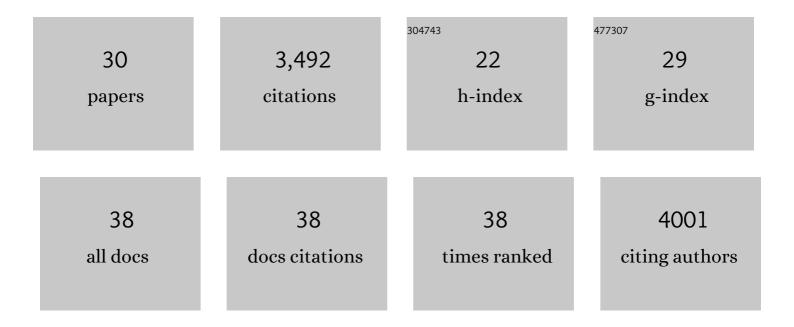
Siobhan A Braybrook

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4458646/publications.pdf Version: 2024-02-01



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

SIOBHAN A BRAYBROOK

#	Article	IF	CITATIONS
19	Branched Pectic Galactan in Phloem-Sieve-Element Cell Walls: Implications for Cell Mechanics. Plant Physiology, 2018, 176, 1547-1558.	4.8	58
20	An Automated Confocal Micro-Extensometer Enables in Vivo Quantification of Mechanical Properties with Cellular Resolution. Plant Cell, 2017, 29, 2959-2973.	6.6	47
21	TANMEI/EMB2757 Encodes a WD Repeat Protein Required for Embryo Development in Arabidopsis. Plant Physiology, 2005, 139, 163-173.	4.8	34
22	Measuring the elasticity of plant cells with atomic force microscopy. Methods in Cell Biology, 2015, 125, 237-254.	1.1	26
23	Towards an understanding of spiral patterning in the Sargassum muticum shoot apex. Scientific Reports, 2017, 7, 13887.	3.3	12
24	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
25	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
26	Plant Development: Lessons from Getting It Twisted. Current Biology, 2017, 27, R758-R760.	3.9	5
27	Fake news blues: A GUS staining protocol to reduce falseâ€negative data. Plant Direct, 2022, 6, e367.	1.9	5
28	Brown algal cell walls and development. Seminars in Cell and Developmental Biology, 2023, 134, 103-111.	5.0	3
29	Auxin and Organogenesis: Initiation of Organs and Nurturing a Scientific Spirit. Plant Cell, 2019, 31, 1397-1397.	6.6	2
30	Atomic force microscopy based analysis of cell-wall elasticity in macroalgae. , 2018, , 335-347.		2