

Amir J Bidhendi

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

678
citations

932766

10
h-index

1125271

13
g-index

15
all docs

15
docs citations

15
times ranked

911
citing authors

#	ARTICLE	IF	CITATIONS
1	Relating the mechanics of the primary plant cell wall to morphogenesis. <i>Journal of Experimental Botany</i> , 2016, 67, 449-461.	2.4	204
2	Mechanical Stress Initiates and Sustains the Morphogenesis of Wavy Leaf Epidermal Cells. <i>Cell Reports</i> , 2019, 28, 1237-1250.e6.	2.9	93
3	Pectin Chemistry and Cellulose Crystallinity Govern Pavement Cell Morphogenesis in a Multi-Step Mechanism. <i>Plant Physiology</i> , 2019, 181, 127-141.	2.3	90
4	Finite Element Modeling of Shape Changes in Plant Cells. <i>Plant Physiology</i> , 2018, 176, 41-56.	2.3	65
5	Methods to quantify primary plant cell wall mechanics. <i>Journal of Experimental Botany</i> , 2019, 70, 3615-3648.	2.4	51
6	Fluorescence visualization of cellulose and pectin in the primary plant cell wall. <i>Journal of Microscopy</i> , 2020, 278, 164-181.	0.8	44
7	Geometrical Details Matter for Mechanical Modeling of Cell Morphogenesis. <i>Developmental Cell</i> , 2019, 50, 117-125.e2.	3.1	36
8	Cytoskeletal regulation of primary plant cell wall assembly. <i>Current Biology</i> , 2021, 31, R681-R695.	1.8	36
9	A Finite Element Study of Micropipette Aspiration of Single Cells: Effect of Compressibility. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-9.	0.7	25
10	Modeling the nonlinear elastic behavior of plant epidermis. <i>Botany</i> , 2020, 98, 49-64.	0.5	19
11	Tensile Testing of Primary Plant Cells and Tissues. , 2018, , 321-347.		7
12	A clinically friendly viscoelastic finite element analysis model of the mandible with Herbst appliance. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2021, 160, 215-220.e2.	0.8	2
13	Mechanics of Interdigitating Morphogenesis in Pavement Cells. <i>Microscopy and Microanalysis</i> , 2015, 21, 201-202.	0.2	1
14	Assembly of a simple scalable device for micromechanical testing of plant tissues. <i>Methods in Cell Biology</i> , 2020, 160, 327-348.	0.5	1