

Adrienne H K Roeder

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

4,306
citations

201575

27
h-index

214721

47
g-index

102
all docs

102
docs citations

102
times ranked

4420
citing authors

#	ARTICLE	IF	CITATIONS
1	Fifteen compelling open questions in plant cell biology. <i>Plant Cell</i> , 2022, 34, 72-102.	3.1	27
2	Back to the roots: A focus on plant cell biology. <i>Plant Cell</i> , 2022, 34, 1-3.	3.1	1
3	Stepping on the molecular brake: Slowing down proliferation to allow differentiation. <i>Developmental Cell</i> , 2022, 57, 561-563.	3.1	0
4	Cytokininâ€“CLAVATA cross-talk is an ancient mechanism regulating shoot meristem homeostasis in land plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2116860119.	3.3	16
5	A Life Cycle for Modeling Biology at Different Scales. <i>Frontiers in Plant Science</i> , 2021, 12, 710590.	1.7	4
6	<i>Arabidopsis</i> sepals: A model system for the emergent process of morphogenesis. <i>Quantitative Plant Biology</i> , 2021, 2, .	0.8	15
7	Plant Morphogenesis: Mechanical Feedback Position Is Crucial in Organ Flattening. <i>Current Biology</i> , 2020, 30, R1268-R1270.	1.8	0
8	Plants are better engineers: the complexity of plant organ morphogenesis. <i>Current Opinion in Genetics and Development</i> , 2020, 63, 16-23.	1.5	10
9	Can the French flag and reactionâ€“diffusion models explain flower patterning? Celebrating the 50th anniversary of the French flag model. <i>Journal of Experimental Botany</i> , 2020, 71, 2886-2897.	2.4	9
10	Nitrate Defines Shoot Size through Compensatory Roles for Endoreplication and Cell Division in <i>Arabidopsis thaliana</i> . <i>Current Biology</i> , 2020, 30, 1988-2000.e3.	1.8	25
11	Robust organ size requires robust timing of initiation orchestrated by focused auxin and cytokinin signalling. <i>Nature Plants</i> , 2020, 6, 686-698.	4.7	48
12	Cytokinin and CLE signaling are highly intertwined developmental regulators across tissues and species. <i>Current Opinion in Plant Biology</i> , 2019, 51, 96-104.	3.5	18
13	Editorial overview: Scaling development through the plant tree of life. <i>Current Opinion in Plant Biology</i> , 2019, 47, A1-A4.	3.5	0
14	Growth dynamics of the <i>Arabidopsis</i> fruit is mediated by cell expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25333-25342.	3.3	47
15	Heterogeneity and Robustness in Plant Morphogenesis: From Cells to Organs. <i>Annual Review of Plant Biology</i> , 2018, 69, 469-495.	8.6	72
16	Use it or average it: stochasticity in plant development. <i>Current Opinion in Plant Biology</i> , 2018, 41, 8-15.	3.5	11
17	Why plants make puzzle cells, and how their shape emerges. <i>ELife</i> , 2018, 7, .	2.8	208
18	CLAVATA Was a Genetic Novelty for the Morphological Innovation of 3D Growth in Land Plants. <i>Current Biology</i> , 2018, 28, 2365-2376.e5.	1.8	123

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19	Development: Cell Polarity Is Coordinated over an Entire Plant Leaf. <i>Current Biology</i> , 2018, 28, R884-R887.	1.8	3
20	Ploidy and Size at Multiple Scales in the Arabidopsis Sepal. <i>Plant Cell</i> , 2018, 30, 2308-2329.	3.1	137
21	Plant Development: Differential Growth Rates in Distinct Zones Shape an Ancient Plant Form. <i>Current Biology</i> , 2017, 27, R19-R21.	1.8	16
22	CUTIN SYNTHASE 2 Maintains Progressively Developing Cuticular Ridges in Arabidopsis Sepals. <i>Molecular Plant</i> , 2017, 10, 560-574.	3.9	58
23	Clones of cells switch from reduction to enhancement of size variability in <i>Arabidopsis</i> sepals. <i>Development (Cambridge)</i> , 2017, 144, 4398-4405.	1.2	24
24	Small RNAs Turn Over a New Leaf as Morphogens. <i>Developmental Cell</i> , 2017, 43, 253-254.	3.1	2
25	Fluctuations of the transcription factor ATML1 generate the pattern of giant cells in the Arabidopsis sepal. <i>ELife</i> , 2017, 6, .	2.8	79
26	A Genetic Screen for Mutations Affecting Cell Division in the Arabidopsis thaliana Embryo Identifies Seven Loci Required for Cytokinesis. <i>PLoS ONE</i> , 2016, 11, e0146492.	1.1	24
27	Transcriptomic Effects of the Cell Cycle Regulator LGO in Arabidopsis Sepals. <i>Frontiers in Plant Science</i> , 2016, 7, 1744.	1.7	18
28	A Mechanical Feedback Restricts Sepal Growth and Shape in Arabidopsis. <i>Current Biology</i> , 2016, 26, 1019-1028.	1.8	187
29	Variable Cell Growth Yields Reproducible Organ Development through Spatiotemporal Averaging. <i>Developmental Cell</i> , 2016, 38, 15-32.	3.1	165
30	MorphoGraphX: A platform for quantifying morphogenesis in 4D. <i>ELife</i> , 2015, 4, 05864.	2.8	389
31	Themes and variations in cell type patterning in the plant epidermis. <i>Current Opinion in Genetics and Development</i> , 2015, 32, 55-65.	1.5	33
32	Variability and constancy in cellular growth of Arabidopsis sepals. <i>Plant Physiology</i> , 2015, 169, pp.00839.2015.	2.3	34
33	Stochasticity in plant cellular growth and patterning. <i>Frontiers in Plant Science</i> , 2014, 5, 420.	1.7	46
34	Endomembrane Trafficking Protein SEC24A Regulates Cell Size Patterning in Arabidopsis. <i>Plant Physiology</i> , 2014, 166, 1877-1890.	2.3	22
35	Computational Analysis of Live Cell Images of the Arabidopsis thaliana Plant. <i>Methods in Cell Biology</i> , 2012, 110, 285-323.	0.5	13
36	When and where plant cells divide: a perspective from computational modeling. <i>Current Opinion in Plant Biology</i> , 2012, 15, 638-644.	3.5	18

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37	Cell cycle regulates cell type in the <i>Arabidopsis</i> sepal. <i>Development</i> (Cambridge), 2012, 139, 4416-4427.	1.2	92
38	What determines cell size?. <i>BMC Biology</i> , 2012, 10, 101.	1.7	196
39	A computational image analysis glossary for biologists. <i>Development</i> (Cambridge), 2012, 139, 3071-3080.	1.2	60
40	Cell cycle regulates cell type in the <i>Arabidopsis</i> sepal. <i>Journal of Cell Science</i> , 2012, 125, e1-e1.	1.2	0
41	A novel role for the floral homeotic gene <i>APETALA2</i> during <i>Arabidopsis</i> fruit development. <i>Development</i> (Cambridge), 2011, 138, 5167-5176.	1.2	102
42	Mutually reinforcing patterning mechanisms: authors' reply. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 533-533.	16.1	1
43	Computational morphodynamics of plants: integrating development over space and time. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 265-273.	16.1	74
44	Comprehensive Analysis of <i>CLE</i> Polypeptide Signaling Gene Expression and Overexpression Activity in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2010, 154, 1721-1736.	2.3	154
45	Variability in the Control of Cell Division Underlies Sepal Epidermal Patterning in <i>Arabidopsis thaliana</i> . <i>PLoS Biology</i> , 2010, 8, e1000367.	2.6	263
46	Segmenting the sepal and shoot apical meristem of <i>Arabidopsis thaliana</i> . , 2010, 2010, 5338-42.		12
47	Computational Morphodynamics: A Modeling Framework to Understand Plant Growth. <i>Annual Review of Plant Biology</i> , 2010, 61, 65-87.	8.6	77
48	Local Cues and Asymmetric Cell Divisions Underpin Body Plan Transitions in the Moss <i>Physcomitrella patens</i> . <i>Current Biology</i> , 2009, 19, 461-471.	1.8	148
49	Fruit Development in <i>Arabidopsis</i> . <i>The Arabidopsis Book</i> , 2006, 4, e0075.	0.5	153
50	A MAPKK Kinase Gene Regulates Extra-Embryonic Cell Fate in <i>Arabidopsis</i> . <i>Cell</i> , 2004, 116, 109-119.	13.5	381
51	Control of Fruit Patterning in <i>Arabidopsis</i> by <i>INDEHISCENT</i> . <i>Cell</i> , 2004, 116, 843-853.	13.5	381
52	The Role of the <i>REPLUMLESS</i> Homeodomain Protein in Patterning the <i>Arabidopsis</i> Fruit. <i>Current Biology</i> , 2003, 13, 1630-1635.	1.8	285
53	Unraveling the Mystery of Double Flowers. <i>Developmental Cell</i> , 2001, 1, 4-6.	3.1	16