Tobias I Baskin

List of Publications by Year
in descending order

27 papers	2,793 citations	471509 17 h-index	610901 24 g-index
27 all docs	27 docs citations	27 times ranked	3131 citing authors

#	Article	IF	Citations
1	Analysis of Cell Division and Elongation Underlying the Developmental Acceleration of Root Growth in Arabidopsis thaliana1. Plant Physiology, 1998, 116, 1515-1526.	4.8	523
2	ANISOTROPIC EXPANSION OF THE PLANT CELL WALL. Annual Review of Cell and Developmental Biology, 2005, 21, 203-222.	9.4	482
3	On the alignment of cellulose microfibrils by cortical microtubules: A review and a model. Protoplasma, 2001, 215, 150-171.	2.1	376
4	Auxin, actin and growth of the Arabidopsis thaliana primary root. Plant Journal, 2007, 50, 514-528.	5.7	259
5	Root hydrotropism is controlled via a cortex-specific growth mechanism. Nature Plants, 2017, 3, 17057.	9.3	183
6	A New Algorithm for Computational Image Analysis of Deformable Motion at High Spatial and Temporal Resolution Applied to Root Growth. Roughly Uniform Elongation in the Meristem and Also, after an Abrupt Acceleration, in the Elongation Zone. Plant Physiology, 2003, 132, 1138-1148.	4.8	172
7	STUNTED PLANT 1 Mediates Effects of Cytokinin, But Not of Auxin, on Cell Division and Expansion in the Root of Arabidopsis. Plant Physiology, 2000, 124, 1718-1727.	4.8	168
8	The Fragile Fiber1 Kinesin Contributes to Cortical Microtubule-Mediated Trafficking of Cell Wall Components. Plant Physiology, 2015, 167, 780-792.	4.8	104
9	Perturbation ofBrachypodium distachyon CELLULOSE SYNTHASE A4or7results in abnormal cell walls. BMC Plant Biology, 2013, 13, 131.	3.6	81
10	On the role of stress anisotropy in the growth of stems. Journal of Experimental Botany, 2013, 64, 4697-4707.	4.8	65
11	On the constancy of cell division rate in the root meristem. , 2000, 43, 545-554.		60
12	Temperatureâ€compensated cell production rate and elongation zone length in the root of Arabidopsis thaliana. Plant, Cell and Environment, 2017, 40, 264-276.	5.7	57
13	Construction of a Functional Casparian Strip in Non-endodermal Lineages Is Orchestrated by Two Parallel Signaling Systems in Arabidopsis thaliana. Current Biology, 2018, 28, 2777-2786.e2.	3.9	45
14	Patterns of root growth acclimation: constant processes, changing boundaries. Wiley Interdisciplinary Reviews: Developmental Biology, 2013, 2, 65-73.	5.9	42
15	Shootward and rootward: peak terminology for plant polarity. Trends in Plant Science, 2010, 15, 593-594.	8.8	39
16	The carrier AUXIN RESISTANT (AUX1) dominates auxin flux into Arabidopsis protoplasts. New Phytologist, 2014, 204, 536-544.	7.3	35
17	Tailor-made composite functions as tools in model choice: the case of sigmoidal vs bi-linear growth profiles. Plant Methods, 2006, 2, 11.	4.3	25
18	Making parallel lines meet. Cell Adhesion and Migration, 2012, 6, 404-408.	2.7	22

#	Article	IF	Citations
19	Auxin inhibits expansion rate independently of cortical microtubules. Trends in Plant Science, 2015, 20, 471-472.	8.8	19
20	Imaging cellulose synthase motility during primary cell wall synthesis in the grass Brachypodium distachyon. Scientific Reports, 2017, 7, 15111.	3.3	13
21	Sample Preparation for Scanning Electron Microscopy: The Surprising Case of Freeze Drying from Tertiary Butanol. Microscopy Today, 2014, 22, 36-39.	0.3	11
22	Kinematic Characterization of Root Growth by Means of Stripflow. Methods in Molecular Biology, 2019, 1992, 291-305.	0.9	5
23	Positioning the Root Elongation Zone Is Saltatory and Receives Input from the Shoot. IScience, 2020, 23, 101309.	4.1	4
24	Oxygen uptake rates have contrasting responses to temperature in the root meristem and elongation zone. Physiologia Plantarum, 2022, 174, e13682.	5.2	2
25	Plant cell growth: Cellulose caught slipping. Nature Plants, 2017, 3, 17063.	9.3	1
26	Cytoskeleton Methods and Protocols, Second Edition. Methods in Molecular Biology, 586. Edited by Ray H. Gavin. Springer, New York, 2009, 490 pages. ISBN 978-1-60761-376-3 (hard cover). Available as an e-book, doi:10.1007/978-1-60761-376-3.. Microscopy and Microanalysis, 2011, 17, 309-310.	0.4	0
27	Rtip: A Fully Automated Root Tip Tracker For Measuring Plant Growth With Intermittent Perturbations. , 2020, 2020, 2516-2520.		0