

Chris Wolverton

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

20
papers

933
citations

10
h-index

21
g-index

21
ext. papers

1,049
ext. citations

4.2
avg, IF

3.47
L-index

#	Paper	IF	Citations
20	Arabidopsis Growth and Dissection on Polyethersulfone (PES) Membranes for Gravitropic Studies. <i>Methods in Molecular Biology</i> , 2022 , 2368, 233-239	1.4	1
19	NASA GeneLab RNA-seq consensus pipeline: standardized processing of short-read RNA-seq data. <i>IScience</i> , 2021 , 24, 102361	6.1	4
18	Post-transplant Water Utilization of Zinnia Seedlings Grown in Humectant-amended Substrate Maintained at Two Moisture Thresholds ¹ . <i>Journal of Environmental Horticulture</i> , 2020 , 38, 101-106	0.7	
17	Comparison of Microgravity Analogs to Spaceflight in Studies of Plant Growth and Development. <i>Frontiers in Plant Science</i> , 2019 , 10, 1577	6.2	42
16	Quantification of root gravitropic response using a constant stimulus feedback system. <i>Methods in Molecular Biology</i> , 2015 , 1309, 23-30	1.4	1
15	Evaluation of a Substrate-applied Humectant to Mitigate Drought Stress in Young, Container-grown Plants. <i>Journal of Environmental Horticulture</i> , 2015 , 33, 137-141	0.7	
14	Low phosphate alters lateral root setpoint angle and gravitropism. <i>American Journal of Botany</i> , 2013 , 100, 175-82	2.7	23
13	Root cap angle and gravitropic response rate are uncoupled in the Arabidopsis pgm-1 mutant. <i>Physiologia Plantarum</i> , 2011 , 141, 373-82	4.6	30
12	Gravitropism in lateral roots of Arabidopsis pgm-1 mutants is indistinguishable from that of wild-type. <i>Plant Signaling and Behavior</i> , 2011 , 6, 1423-4	2.5	7
11	Apical control, gravitropic signaling, and the growth of lateral roots in Arabidopsis. <i>Advances in Space Research</i> , 2005 , 36, 1211-1217	2.4	8
10	Gravity-regulated differential auxin transport from columella to lateral root cap cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 2987-91	11.5	449
9	The kinetics of root gravitropism: dual motors and sensors. <i>Journal of Plant Growth Regulation</i> , 2002 , 21, 102-12	4.7	71
8	Root gravitropism in response to a signal originating outside of the cap. <i>Planta</i> , 2002 , 215, 153-7	4.7	76
7	Spatial separation of light perception and growth response in maize root phototropism. <i>Plant, Cell and Environment</i> , 2002 , 25, 1191-6	8.4	29
6	Two distinct regions of response drive differential growth in Vigna root electrotropism. <i>Plant, Cell and Environment</i> , 2000 , 23, 1275-80	8.4	24
5	Inhibition of root elongation in microgravity by an applied electric field. <i>Uchu Seibutsu Kagaku</i> , 2000 , 14, 58-63	1	1
4	Kinetics of constant gravitropic stimulus responses in Arabidopsis roots using a feedback system. <i>Plant Physiology</i> , 2000 , 123, 665-70	6.6	72

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| 3 | Inhibition of root elongation in microgravity by an applied electric field. <i>Journal of Plant Research</i> , 1999 , 112, 493-6 | 2.6 | 6 |
| 2 | Root-growth behavior of the Arabidopsis mutant rgr1. Roles of gravitropism and circumnutation in the waving/coiling phenomenon. <i>Plant Physiology</i> , 1998 , 118, 1139-45 | 6.6 | 88 |
| 1 | Antagonistic and auxin-dependent phosphoregulation of columella PIN proteins controls lateral root gravitropic setpoint angle in Arabidopsis | | 1 |