Chris Wolverton

List of Publications by Citations

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	Gravity-regulated differential auxin transport from columella to lateral root cap cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 2987-91	11.5	449
19	Root-growth behavior of the Arabidopsis mutant rgr1. Roles of gravitropism and circumnutation in the waving/coiling phenomenon. *Plant Physiology*, **1998**, 118, 1139-45	6.6	88
18	Root gravitropism in response to a signal originating outside of the cap. *Planta*, **2002**, 215, 153-7	4.7	76
17	Kinetics of constant gravitropic stimulus responses in Arabidopsis roots using a feedback system. *Plant Physiology*, **2000**, 123, 665-70	6.6	72
16	The kinetics of root gravitropism: dual motors and sensors. *Journal of Plant Growth Regulation*, **2002**, 21, 102-12	4.7	71
15	Comparison of Microgravity Analogs to Spaceflight in Studies of Plant Growth and Development. *Frontiers in Plant Science*, **2019**, 10, 1577	6.2	42
14	Root cap angle and gravitropic response rate are uncoupled in the Arabidopsis pgm-1 mutant. *Physiologia Plantarum*, **2011**, 141, 373-82	4.6	30
13	Spatial separation of light perception and growth response in maize root phototropism. *Plant, Cell and Environment*, **2002**, 25, 1191-6	8.4	29
12	Two distinct regions of response drive differential growth in Vigna root electrotropism. *Plant, Cell and Environment*, **2000**, 23, 1275-80	8.4	24
11	Low phosphate alters lateral root setpoint angle and gravitropism. *American Journal of Botany*, **2013**, 100, 175-82	2.7	23
10	Apical control, gravitropic signaling, and the growth of lateral roots in Arabidopsis. *Advances in Space Research*, **2005**, 36, 1211-1217	2.4	8
9	Gravitropism in lateral roots of Arabidopsis pgm-1 mutants is indistinguishable from that of wild-type. *Plant Signaling and Behavior*, **2011**, 6, 1423-4	2.5	7
8	Inhibition of root elongation in microgravity by an applied electric field. *Journal of Plant Research*, **1999**, 112, 493-6	2.6	6
7	NASA GeneLab RNA-seq consensus pipeline: standardized processing of short-read RNA-seq data. *IScience*, **2021**, 24, 102361	6.1	4
6	Inhibition of root elongation in microgravity by an applied electric field. *Uchu Seibutsu Kagaku*, **2000**, 14, 58-63	1	1
5	Arabidopsis Growth and Dissection on Polyethersulfone (PES) Membranes for Gravitropic Studies. *Methods in Molecular Biology*, **2022**, 2368, 233-239	1.4	1
4	Antagonistic and auxin-dependent phosphoregulation of columella PIN proteins controls lateral root gravitropic setpoint angle in Arabidopsis		1

List of Publications

3	Quantification of root gravitropic response using a constant stimulus feedback system. *Methods in Molecular Biology*, **2015**, 1309, 23-30	1.4	1
2	Post-transplant Water Utilization of Zinnia Seedlings Grown in Humectant-amended Substrate Maintained at Two Moisture Thresholds1. *Journal of Environmental Horticulture*, **2020**, 38, 101-106	0.7	
1	Evaluation of a Substrate-applied Humectant to Mitigate Drought Stress in Young, Container-grown Plants. *Journal of Environmental Horticulture*, **2015**, 33, 137-141	0.7	