Kirsten H W Ten Tusscher

List of Publications by Year
in descending order

21 papers	926 citations	840776 11 h-index	752698 20 g-index
23 all docs	23 docs citations	23 times ranked	1258 citing authors

#	Article	IF	Citations
1	PLETHORA gradient formation mechanism separates auxin responses. Nature, 2014, 515, 125-129.	27.8	329
2	Polar auxin transport: models and mechanisms. Development (Cambridge), 2013, 140, 2253-2268.	2.5	105
3	Evolution of Networks for Body Plan Patterning; Interplay of Modularity, Robustness and Evolvability. PLoS Computational Biology, 2011, 7, e1002208.	3.2	75
4	Modeling halotropism: A key role for root tip architecture and reflux loop remodeling in redistributing auxin. Development (Cambridge), 2016, 143, 3350-62.	2.5	59
5	A Self-Organized PLT/Auxin/ARR-B Network Controls the Dynamics of Root Zonation Development in Arabidopsis thaliana. Developmental Cell, 2020, 53, 431-443.e23.	7.0	58
6	The Systems Biology of Lateral Root Formation: Connecting the Dots. Molecular Plant, 2019, 12, 784-803.	8.3	56
7	Periodic Lateral Root Priming: What Makes It Tick?. Plant Cell, 2017, 29, 432-444.	6.6	55
8	What is quantitative plant biology?. Quantitative Plant Biology, 2021, 2, .	2.0	43
9	A reflux-and-growth mechanism explains oscillatory patterning of lateral root branching sites. Developmental Cell, 2021, 56, 2176-2191.e10.	7.0	35
10	Local auxin competition explains fragmented differentiation patterns. Nature Communications, 2020, 11, 2965.	12.8	19
11	Modeling of Root Nitrate Responses Suggests Preferential Foraging Arises From the Integration of Demand, Supply and Local Presence Signals. Frontiers in Plant Science, 2020, 11, 708.	3.6	18
12	In Silico Roots: Room for Growth. Trends in Plant Science, 2019, 24, 250-262.	8.8	15
13	Modelling the physiological relevance of sucrose export repression by an <scp>Flowering Time</scp> homolog in the longâ€distance phloem of potato. Plant, Cell and Environment, 2021, 44, 792-806.	5.7	10
14	Auxin Information Processing; Partners and Interactions beyond the Usual Suspects. International Journal of Molecular Sciences, 2017, 18, 2585.	4.1	8
15	Modeling Auxin Signaling in Roots: Auxin Computations. Cold Spring Harbor Perspectives in Biology, 2021, , a040089.	5.5	8
16	Of mice and plants: Comparative developmental systems biology. Developmental Biology, 2020, 460, 32-39.	2.0	7
17	Joining forces: feedback and integration in plant development. Current Opinion in Genetics and Development, 2011, 21, 799-805.	3.3	6
18	What remains of the evidence for auxin feedback on PIN polarity patterns?. Plant Physiology, 2021, 186, 804-807.	4.8	5

#	Article	IF	Citations
19	Bootstrapping and Pinning down the Root Meristem; the Auxinâ€“PLTâ€“ARR Network Unites Robustness and Sensitivity in Meristem Growth Control. International Journal of Molecular Sciences, 2021, 22, 4731.	4.1	3
20	Undirected Sucrose Efflux Mitigation by the FT-Like SP6A Preferentially Enhances Tuber Resource Partitioning. Frontiers in Plant Science, 2022, 13, .	3.6	3
21	Quantitative plant biologyâ€”Old and new. Quantitative Plant Biology, 2021, 2, .	2.0	1