Jian Xu

List of Publications by Year in descending order

48 papers	7,755 citations	159585 30 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	6965 citing authors

#	Article	IF	Citations
1	The PIN auxin efflux facilitator network controls growth and patterning in Arabidopsis roots. Nature, 2005, 433, 39-44.	27.8	1,789
2	Auxin transport is sufficient to generate a maximum and gradient guiding root growth. Nature, 2007, 449, 1008-1013.	27.8	761
3	Polar PIN Localization Directs Auxin Flow in Plants. Science, 2006, 312, 883-883.	12.6	754
4	Dissection of Arabidopsis ADP-RIBOSYLATION FACTOR 1 Function in Epidermal Cell Polarity. Plant Cell, 2005, 17, 525-536.	6.6	422
5	Arabidopsis Sterol Endocytosis Involves Actin-Mediated Trafficking via ARA6-Positive Early Endosomes. Current Biology, 2003, 13, 1378-1387.	3.9	390
6	A Molecular Framework for Plant Regeneration. Science, 2006, 311, 385-388.	12.6	312
7	A Bistable Circuit Involving SCARECROW-RETINOBLASTOMA Integrates Cues to Inform Asymmetric Stem Cell Division. Cell, 2012, 150, 1002-1015.	28.9	273
8	Root-Specific CLE19 Overexpression and the sol1/2 Suppressors Implicate a CLV-like Pathway in the Control of Arabidopsis Root Meristem Maintenance. Current Biology, 2003, 13, 1435-1441.	3.9	269
9	The 14â€“Amino Acid CLV3, CLE19, and CLE40 Peptides Trigger Consumption of the Root Meristem in Arabidopsis through a CLAVATA2-Dependent Pathway. Plant Cell, 2005, 17, 2542-2553.	6.6	265
10	The NAC Domain Transcription Factors FEZ and SOMBRERO Control the Orientation of Cell Division Plane in Arabidopsis Root Stem Cells. Developmental Cell, 2008, 15, 913-922.	7.0	229
11	Generation of cell polarity in plants links endocytosis, auxin distribution and cell fate decisions. Nature, 2008, 456, 962-966.	27.8	228
12	Brassinosteroids Stimulate Plant Tropisms through Modulation of Polar Auxin Transport in Brassica and Arabidopsis. Plant Cell, 2005, 17, 2738-2753.	6.6	218
13	Plasma membrane-bound AGC3 kinases phosphorylate PIN auxin carriers at TPRXS(N/S) motifs to direct apical PIN recycling. Development (Cambridge), 2010, 137, 3245-3255.	2.5	201
14	ArabidopsisTyrosylprotein Sulfotransferase Acts in the Auxin/PLETHORA Pathway in Regulating Postembryonic Maintenance of the Root Stem Cell Niche Â. Plant Cell, 2010, 22, 3692-3709.	6.6	167
15	COP1 mediates the coordination of root and shoot growth by light through modulation of PIN1- and PIN2-dependent auxin transport in Arabidopsis. Development (Cambridge), 2012, 139, 3402-3412.	2.5	167
16	A Sacrifice-for-Survival Mechanism Protects Root Stem Cell Niche from Chilling Stress. Cell, 2017, 170, 102-113.e14.	28.9	139
17	Single-Cell Transcriptome Analysis in Plants: Advances and Challenges. Molecular Plant, 2021, 14, 115-126.	8.3	127
18	A PP6-Type Phosphatase Holoenzyme Directly Regulates PIN Phosphorylation and Auxin Efflux in Arabidopsis. Plant Cell, 2012, 24, 2497-2514.	6.6	84

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19	The Rice HGW Gene Encodes a Ubiquitin-Associated (UBA) Domain Protein That Regulates Heading Date and Grain Weight. PLoS ONE, 2012, 7, e34231.	2.5	83
20	Rice actin binding protein RMD controls crown root angle in response to external phosphate. Nature Communications, 2018, 9, 2346.	12.8	66
21	Rocks in the auxin stream: Wound-induced auxin accumulation and ERF115 expression synergistically drive stem cell regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16667-16677.	7.1	63
22	Wound signaling of regenerative cell reprogramming. Plant Science, 2016, 250, 178-187.	3.6	55
23	Transcriptome Comparison of Global Distinctive Features Between Pollination and Parthenocarpic Fruit Set Reveals Transcriptional Phytohormone Cross-Talk in Cucumber (Cucumis sativus L.). Plant and Cell Physiology, 2014, 55, 1325-1342.	3.1	54
24	Cell polarity: ROPing the ends together. Current Opinion in Plant Biology, 2005, 8, 613-618.	7.1	51
25	SEUSS Integrates Gibberellin Signaling with Transcriptional Inputs from the SHR-SCR-SCL3 Module to Regulate Middle Cortex Formation in the Arabidopsis Root. Plant Physiology, 2016, 170, 1675-1683.	4.8	48
26	ROP3 GTPase Contributes to Polar Auxin Transport and Auxin Responses and Is Important for Embryogenesis and Seedling Growth inArabidopsisÂ Â. Plant Cell, 2014, 26, 3501-3518.	6.6	46
27	Polar auxin transport and patterning: grow with the flow. Genes and Development, 2006, 20, 922-926.	5.9	41
28	A CLEâ€“WOX signalling module regulates root meristem maintenance and vascular tissue development in rice. Journal of Experimental Botany, 2013, 64, 5359-5369.	4.8	41
29	Origin and Development of the Root Cap in Rice. Plant Physiology, 2014, 166, 603-613.	4.8	39
30	Diversification of reprogramming trajectories revealed by parallel single-cell transcriptome and chromatin accessibility sequencing. Science Advances, 2020, 6, .	10.3	37
31	Root growth responses to mechanical impedance are regulated by a network of ROS, ethylene and auxin signalling in Arabidopsis. New Phytologist, 2021, 231, 225-242.	7.3	36
32	Shedding light on auxin movement: Light-regulation of polar auxin transport in the photocontrol of plant development. Plant Signaling and Behavior, 2013, 8, e23355.	2.4	33
33	A quantitative analysis of stem cell homeostasis in the Arabidopsis columella root cap. Frontiers in Plant Science, 2015, 6, 206.	3.6	29
34	Clathrin-Mediated Auxin Efflux and Maxima Regulate Hypocotyl Hook Formation and Light-Stimulated Hook Opening in Arabidopsis. Molecular Plant, 2016, 9, 101-112.	8.3	28
35	The Arabidopsis RETARDED ROOT GROWTH Gene Encodes a Mitochondria-Localized Protein That Is Required for Cell Division in the Root Meristem Â. Plant Physiology, 2011, 157, 1793-1804.	4.8	26
36	A single-cell view of tissue regeneration in plants. Current Opinion in Plant Biology, 2019, 52, 149-154.	7.1	24

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37	Protocol: a method to study the direct reprogramming of lateral root primordia to fertile shoots. Plant Methods, 2016, 12, 27.	4.3	22
38	Control of Cell Fate Reprogramming Towards De Novo Shoot Organogenesis. Plant and Cell Physiology, 2018, 59, 713-719.	3.1	22
39	Clathrin regulates blue lightâ€triggered lateral auxin distribution and hypocotyl phototropism in Arabidopsis. Plant, Cell and Environment, 2017, 40, 165-176.	5.7	21
40	TOPOISOMERASE1Î± Acts through Two Distinct Mechanisms to Regulate Stele and Columella Stem Cell Maintenance. Plant Physiology, 2016, 171, 483-493.	4.8	20
41	Induced Pluripotency and Gene Editing in Disease Modelling: Perspectives and Challenges. International Journal of Molecular Sciences, 2015, 16, 28614-28634.	4.1	19
42	Auxin redistribution and shifts in PIN gene expression during Arabidopsis grafting. Russian Journal of Plant Physiology, 2014, 61, 688-696.	1.1	16
43	Inducible knock-down of GNOM during root formation reveals tissue-specific response to auxin transport and its modulation of local auxin biosynthesis. Journal of Experimental Botany, 2014, 65, 1165-1179.	4.8	10
44	Mechanisms of stress response in the root stem cell niche. Journal of Experimental Botany, 2021, 72, 6746-6754.	4.8	10
45	Symplastic communication in the root cap directs auxin distribution to modulate root development. Journal of Integrative Plant Biology, 2022, 64, 859-870.	8.5	8
46	SETDB1 acts as a topological accessory to Cohesin via an H3K9me3-independent, genomic shunt for regulating cell fates. Nucleic Acids Research, 2022, 50, 7326-7349.	14.5	8
47	Ultraviolet-B radiation induces cell death in root tips and reprograms metabolism in Arabidopsis. Biologia Plantarum, 0, 64, 764-772.	1.9	2
48	Root Development. , 2013, , 297-316.		1