

# Jian Xu

## List of Publications by Year in descending order

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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	Symplastic communication in the root cap directs auxin distribution to modulate root development. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 859-870.	8.5	8
2	SETDB1 acts as a topological accessory to Cohesin via an H3K9me3-independent, genomic shunt for regulating cell fates. <i>Nucleic Acids Research</i> , 2022, 50, 7326-7349.	14.5	8
3	Single-Cell Transcriptome Analysis in Plants: Advances and Challenges. <i>Molecular Plant</i> , 2021, 14, 115-126.	8.3	127
4	Root growth responses to mechanical impedance are regulated by a network of ROS, ethylene and auxin signalling in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2021, 231, 225-242.	7.3	36
5	Mechanisms of stress response in the root stem cell niche. <i>Journal of Experimental Botany</i> , 2021, 72, 6746-6754.	4.8	10
6	Diversification of reprogramming trajectories revealed by parallel single-cell transcriptome and chromatin accessibility sequencing. <i>Science Advances</i> , 2020, 6, .	10.3	37
7	Rocks in the auxin stream: Wound-induced auxin accumulation and <i>ERF115</i> expression synergistically drive stem cell regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16667-16677.	7.1	63
8	A single-cell view of tissue regeneration in plants. <i>Current Opinion in Plant Biology</i> , 2019, 52, 149-154.	7.1	24
9	Control of Cell Fate Reprogramming Towards De Novo Shoot Organogenesis. <i>Plant and Cell Physiology</i> , 2018, 59, 713-719.	3.1	22
10	Rice actin binding protein RMD controls crown root angle in response to external phosphate. <i>Nature Communications</i> , 2018, 9, 2346.	12.8	66
11	A Sacrifice-for-Survival Mechanism Protects Root Stem Cell Niche from Chilling Stress. <i>Cell</i> , 2017, 170, 102-113.e14.	28.9	139
12	Clathrin regulates blue light-triggered lateral auxin distribution and hypocotyl phototropism in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2017, 40, 165-176.	5.7	21
13	TOPOISOMERASE I Acts through Two Distinct Mechanisms to Regulate Stele and Columella Stem Cell Maintenance. <i>Plant Physiology</i> , 2016, 171, 483-493.	4.8	20
14	SEUSS Integrates Gibberellin Signaling with Transcriptional Inputs from the SHR-SCR-SCL3 Module to Regulate Middle Cortex Formation in the <i>Arabidopsis</i> Root. <i>Plant Physiology</i> , 2016, 170, 1675-1683.	4.8	48
15	Wound signaling of regenerative cell reprogramming. <i>Plant Science</i> , 2016, 250, 178-187.	3.6	55
16	Protocol: a method to study the direct reprogramming of lateral root primordia to fertile shoots. <i>Plant Methods</i> , 2016, 12, 27.	4.3	22
17	Clathrin-Mediated Auxin Efflux and Maxima Regulate Hypocotyl Hook Formation and Light-Stimulated Hook Opening in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2016, 9, 101-112.	8.3	28
18	Induced Pluripotency and Gene Editing in Disease Modelling: Perspectives and Challenges. <i>International Journal of Molecular Sciences</i> , 2015, 16, 28614-28634.	4.1	19

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19	A quantitative analysis of stem cell homeostasis in the Arabidopsis columella root cap. <i>Frontiers in Plant Science</i> , 2015, 6, 206.	3.6	29
20	Origin and Development of the Root Cap in Rice. <i>Plant Physiology</i> , 2014, 166, 603-613.	4.8	39
21	Inducible knock-down of GNOM during root formation reveals tissue-specific response to auxin transport and its modulation of local auxin biosynthesis. <i>Journal of Experimental Botany</i> , 2014, 65, 1165-1179.	4.8	10
22	Transcriptome Comparison of Global Distinctive Features Between Pollination and Parthenocarpic Fruit Set Reveals Transcriptional Phytohormone Cross-Talk in Cucumber ( <i>Cucumis sativus</i> L.). <i>Plant and Cell Physiology</i> , 2014, 55, 1325-1342.	3.1	54
23	Auxin redistribution and shifts in PIN gene expression during Arabidopsis grafting. <i>Russian Journal of Plant Physiology</i> , 2014, 61, 688-696.	1.1	16
24	ROP3 GTPase Contributes to Polar Auxin Transport and Auxin Responses and Is Important for Embryogenesis and Seedling Growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 3501-3518.	6.6	46
25	A CLE4-WOX signalling module regulates root meristem maintenance and vascular tissue development in rice. <i>Journal of Experimental Botany</i> , 2013, 64, 5359-5369.	4.8	41
26	Shedding light on auxin movement: Light-regulation of polar auxin transport in the photocontrol of plant development. <i>Plant Signaling and Behavior</i> , 2013, 8, e23355.	2.4	33
27	Root Development. , 2013, , 297-316.		1
28	A PP6-Type Phosphatase Holoenzyme Directly Regulates PIN Phosphorylation and Auxin Efflux in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 2497-2514.	6.6	84
29	A Bistable Circuit Involving SCARECROW-RETINOBLASTOMA Integrates Cues to Inform Asymmetric Stem Cell Division. <i>Cell</i> , 2012, 150, 1002-1015.	28.9	273
30	COP1 mediates the coordination of root and shoot growth by light through modulation of PIN1- and PIN2-dependent auxin transport in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2012, 139, 3402-3412.	2.5	167
31	The Rice HGW Gene Encodes a Ubiquitin-Associated (UBA) Domain Protein That Regulates Heading Date and Grain Weight. <i>PLoS ONE</i> , 2012, 7, e34231.	2.5	83
32	The Arabidopsis RETARDED ROOT GROWTH Gene Encodes a Mitochondria-Localized Protein That Is Required for Cell Division in the Root Meristem. <i>Plant Physiology</i> , 2011, 157, 1793-1804.	4.8	26
33	Plasma membrane-bound AGC3 kinases phosphorylate PIN auxin carriers at TPRXS(N/S) motifs to direct apical PIN recycling. <i>Development (Cambridge)</i> , 2010, 137, 3245-3255.	2.5	201
34	<i>Arabidopsis</i> Tyrosylprotein Sulfotransferase Acts in the Auxin/PLETHORA Pathway in Regulating Postembryonic Maintenance of the Root Stem Cell Niche. <i>Plant Cell</i> , 2010, 22, 3692-3709.	6.6	167
35	Generation of cell polarity in plants links endocytosis, auxin distribution and cell fate decisions. <i>Nature</i> , 2008, 456, 962-966.	27.8	228
36	The NAC Domain Transcription Factors FEZ and SOMBRERO Control the Orientation of Cell Division Plane in Arabidopsis Root Stem Cells. <i>Developmental Cell</i> , 2008, 15, 913-922.	7.0	229

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37	Auxin transport is sufficient to generate a maximum and gradient guiding root growth. <i>Nature</i> , 2007, 449, 1008-1013.	27.8	761
38	A Molecular Framework for Plant Regeneration. <i>Science</i> , 2006, 311, 385-388.	12.6	312
39	Polar PIN Localization Directs Auxin Flow in Plants. <i>Science</i> , 2006, 312, 883-883.	12.6	754
40	Polar auxin transport and patterning: grow with the flow. <i>Genes and Development</i> , 2006, 20, 922-926.	5.9	41
41	The PIN auxin efflux facilitator network controls growth and patterning in Arabidopsis roots. <i>Nature</i> , 2005, 433, 39-44.	27.8	1,789
42	Cell polarity: ROPing the ends together. <i>Current Opinion in Plant Biology</i> , 2005, 8, 613-618.	7.1	51
43	Dissection of Arabidopsis ADP-RIBOSYLATION FACTOR 1 Function in Epidermal Cell Polarity. <i>Plant Cell</i> , 2005, 17, 525-536.	6.6	422
44	Brassinosteroids Stimulate Plant Tropisms through Modulation of Polar Auxin Transport in Brassica and Arabidopsis. <i>Plant Cell</i> , 2005, 17, 2738-2753.	6.6	218
45	The 14â€Amino Acid CLV3, CLE19, and CLE40 Peptides Trigger Consumption of the Root Meristem in Arabidopsis through a CLAVATA2-Dependent Pathway. <i>Plant Cell</i> , 2005, 17, 2542-2553.	6.6	265
46	Root-Specific CLE19 Overexpression and the sol1/2 Suppressors Implicate a CLV-like Pathway in the Control of Arabidopsis Root Meristem Maintenance. <i>Current Biology</i> , 2003, 13, 1435-1441.	3.9	269
47	Arabidopsis Sterol Endocytosis Involves Actin-Mediated Trafficking via ARA6-Positive Early Endosomes. <i>Current Biology</i> , 2003, 13, 1378-1387.	3.9	390
48	Ultraviolet-B radiation induces cell death in root tips and reprograms metabolism in Arabidopsis. <i>Biologia Plantarum</i> , 0, 64, 764-772.	1.9	2