

Zhaojun Ding

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7285219/publications.pdf>

Version: 2024-02-01

74
papers

5,982
citations

87888

38
h-index

79698

73
g-index

108
all docs

108
docs citations

108
times ranked

6499
citing authors

#	ARTICLE	IF	CITATIONS
1	Differentially charged nanoplastics demonstrate distinct accumulation in <i>Arabidopsis thaliana</i> . <i>Nature Nanotechnology</i> , 2020, 15, 755-760.	31.5	619
2	How Plant Hormones Mediate Salt Stress Responses. <i>Trends in Plant Science</i> , 2020, 25, 1117-1130.	8.8	426
3	Auxin regulates distal stem cell differentiation in <i>Arabidopsis</i> roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12046-12051.	7.1	346
4	Role of PIN-mediated auxin efflux in apical hook development of <i>Arabidopsis thaliana</i> . <i>Development (Cambridge)</i> , 2010, 137, 607-617.	2.5	297
5	Light-mediated polarization of the PIN3 auxin transporter for the phototropic response in <i>Arabidopsis</i> . <i>Nature Cell Biology</i> , 2011, 13, 447-452.	10.3	295
6	Gravity-induced PIN transcytosis for polarization of auxin fluxes in gravity-sensing root cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22344-22349.	7.1	287
7	ER-localized auxin transporter PIN8 regulates auxin homeostasis and male gametophyte development in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2012, 3, 941.	12.8	233
8	Endocytosis and its regulation in plants. <i>Trends in Plant Science</i> , 2015, 20, 388-397.	8.8	198
9	TAA1-Regulated Local Auxin Biosynthesis in the Root-Apex Transition Zone Mediates the Aluminum-Induced Inhibition of Root Growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 2889-2904.	6.6	173
10	Shaping a root system: regulating lateral versus primary root growth. <i>Trends in Plant Science</i> , 2014, 19, 426-431.	8.8	172
11	Hydrogen peroxide positively regulates brassinosteroid signaling through oxidation of the BRASSINAZOLE-RESISTANT1 transcription factor. <i>Nature Communications</i> , 2018, 9, 1063.	12.8	169
12	Brassinosteroids regulate root growth by controlling reactive oxygen species homeostasis and dual effect on ethylene synthesis in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2018, 14, e1007144.	3.5	152
13	Nanoplastics Promote Microcystin Synthesis and Release from Cyanobacterial <i>Microcystis aeruginosa</i> . <i>Environmental Science & Technology</i> , 2020, 54, 3386-3394.	10.0	136
14	PHB3 Maintains Root Stem Cell Niche Identity through ROS-Responsive AP2/ERF Transcription Factors in <i>Arabidopsis</i> . <i>Cell Reports</i> , 2018, 22, 1350-1363.	6.4	128
15	WOX5-IAA17 Feedback Circuit-Mediated Cellular Auxin Response Is Crucial for the Patterning of Root Stem Cell Niches in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2014, 7, 277-289.	8.3	125
16	Local Transcriptional Control of YUCCA Regulates Auxin Promoted Root-Growth Inhibition in Response to Aluminium Stress in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2016, 12, e1006360.	3.5	98
17	Auxin-BR Interaction Regulates Plant Growth and Development. <i>Frontiers in Plant Science</i> , 2017, 8, 2256.	3.6	92
18	Enhanced rate performance and cycling stability of a CoCO ₃ -polypyrrole composite for lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11200.	10.3	91

#	ARTICLE	IF	CITATIONS
19	Auxin signaling: Research advances over the past 30 years. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 371-392.	8.5	87
20	A P-Loop NTPase Regulates Quiescent Center Cell Division and Distal Stem Cell Identity through the Regulation of ROS Homeostasis in <i>Arabidopsis</i> Root. <i>PLoS Genetics</i> , 2016, 12, e1006175.	3.5	80
21	Synergistic action of auxin and cytokinin mediates aluminum-induced root growth inhibition in <i>Arabidopsis</i> . <i>EMBO Reports</i> , 2017, 18, 1213-1230.	4.5	80
22	Jasmonic Acid Enhances Al-Induced Root Growth Inhibition. <i>Plant Physiology</i> , 2017, 173, 1420-1433.	4.8	79
23	Short-term exposure to positively charged polystyrene nanoparticles causes oxidative stress and membrane destruction in cyanobacteria. <i>Environmental Science: Nano</i> , 2019, 6, 3072-3079.	4.3	79
24	The Root Transition Zone: A Hot Spot for Signal Crosstalk. <i>Trends in Plant Science</i> , 2018, 23, 403-409.	8.8	78
25	Potassium Retention under Salt Stress Is Associated with Natural Variation in Salinity Tolerance among <i>Arabidopsis</i> Accessions. <i>PLoS ONE</i> , 2015, 10, e0124032.	2.5	69
26	The key players of the primary root growth and development also function in lateral roots in <i>Arabidopsis</i> . <i>Plant Cell Reports</i> , 2014, 33, 745-753.	5.6	68
27	Designer crops: optimal root system architecture for nutrient acquisition. <i>Trends in Biotechnology</i> , 2014, 32, 597-598.	9.3	66
28	Non-canonical <i>AUX</i> / <i>IAA</i> protein <i>IAA</i> 33 competes with canonical <i>AUX</i> / <i>IAA</i> repressor <i>IAA</i> 5 to negatively regulate auxin signaling. <i>EMBO Journal</i> , 2020, 39, e101515.	7.8	62
29	Asymmetric distribution of cytokinins determines root hydrotropism in <i>Arabidopsis thaliana</i> . <i>Cell Research</i> , 2019, 29, 984-993.	12.0	61
30	MPK14-mediated auxin signaling controls lateral root development via ERF13-regulated very-long-chain fatty acid biosynthesis. <i>Molecular Plant</i> , 2021, 14, 285-297.	8.3	57
31	The metabolic sensor AKIN10 modulates the <i>Arabidopsis</i> circadian clock in a light-dependent manner. <i>Plant, Cell and Environment</i> , 2017, 40, 997-1008.	5.7	55
32	<i>LEUNIG</i> _ <i>HOMOLOG</i> transcriptional corepressor mediates aluminium sensitivity through <i>PECTIN METHYLESTERASE</i> 46 modulated root cell wall pectin methylesterification in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2017, 90, 491-504.	5.7	48
33	System analysis of microRNAs in the development and aluminium stress responses of the maize root system. <i>Plant Biotechnology Journal</i> , 2014, 12, 1108-1121.	8.3	47
34	Local Auxin Biosynthesis Mediates Plant Growth and Development. <i>Trends in Plant Science</i> , 2019, 24, 6-9.	8.8	46
35	WOX5 is Shining in the Root Stem Cell Niche. <i>Trends in Plant Science</i> , 2015, 20, 601-603.	8.8	45
36	Auxin Efflux Carrier ZmPGP1 Mediates Root Growth Inhibition under Aluminum Stress. <i>Plant Physiology</i> , 2018, 177, 819-832.	4.8	44

#	ARTICLE	IF	CITATIONS
37	ROS: The Fine-Tuner of Plant Stem Cell Fate. <i>Trends in Plant Science</i> , 2018, 23, 850-853.	8.8	44
38	Ethylene promotes cadmium-induced root growth inhibition through <i>EIN3</i> controlled <i>XTH33</i> and <i>LSU1</i> expression in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2018, 41, 2449-2462.	5.7	44
39	<i>KUP9</i> maintains root meristem activity by regulating K ⁺ and auxin homeostasis in response to low K. <i>EMBO Reports</i> , 2020, 21, e50164.	4.5	43
40	Localised ABA signalling mediates root growth plasticity. <i>Trends in Plant Science</i> , 2013, 18, 533-535.	8.8	42
41	IPyA glucosylation mediates light and temperature signaling to regulate auxin-dependent hypocotyl elongation in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6910-6917.	7.1	39
42	Antagonistic Interaction between Auxin and SA Signaling Pathways Regulates Bacterial Infection through Lateral Root in <i>Arabidopsis</i> . <i>Cell Reports</i> , 2020, 32, 108060.	6.4	38
43	MPK3/6-induced degradation of <i>ARR1/10/12</i> promotes salt tolerance in <i>Arabidopsis</i> . <i>EMBO Reports</i> , 2021, 22, e52457.	4.5	37
44	Comparative transcript profiling of maize inbreds in response to long-term phosphorus deficiency stress. <i>Plant Physiology and Biochemistry</i> , 2016, 109, 467-481.	5.8	34
45	<i>PRH1</i> mediates <i>ARF7-LBD</i> dependent auxin signaling to regulate lateral root development in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2020, 16, e1008044.	3.5	34
46	The <i>Arabidopsis thaliana</i> elongator complex subunit 2 epigenetically affects root development. <i>Journal of Experimental Botany</i> , 2015, 66, 4631-4642.	4.8	32
47	<i>SIZ1</i> negatively regulates aluminum resistance by mediating the <i>STOP1</i> ALMT1 pathway in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2021, 63, 1147-1160.	8.5	32
48	Comparative Transcriptome Profiling of the Maize Primary, Crown and Seminal Root in Response to Salinity Stress. <i>PLoS ONE</i> , 2015, 10, e0121222.	2.5	31
49	Cell kinetics of auxin transport and activity in <i>Arabidopsis</i> root growth and skewing. <i>Nature Communications</i> , 2021, 12, 1657.	12.8	30
50	PIFs coordinate shade avoidance by inhibiting auxin repressor <i>ARF18</i> and metabolic regulator <i>QQS</i> . <i>New Phytologist</i> , 2020, 228, 609-621.	7.3	29
51	<i>ZmTE1</i> promotes plant height by regulating intercalary meristem formation and internode cell elongation in maize. <i>Plant Biotechnology Journal</i> , 2022, 20, 526-537.	8.3	27
52	Auxin gradient is crucial for the maintenance of root distal stem cell identity in <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2013, 8, e26429.	2.4	26
53	<i>HEADLESS</i> Regulates Auxin Response and Compound Leaf Morphogenesis in <i>Medicago truncatula</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 1024.	3.6	19
54	<i>AtHB7/12</i> Regulate Root Growth in Response to Aluminum Stress. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4080.	4.1	19

#	ARTICLE	IF	CITATIONS
55	Light participates in the auxin-dependent regulation of plant growth. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 819-822.	8.5	15
56	Production of purple Ma bamboo (<i>Dendrocalamus latiflorus</i> Munro) with enhanced drought and cold stress tolerance by engineering anthocyanin biosynthesis. <i>Planta</i> , 2021, 254, 50.	3.2	15
57	Local regulation of auxin transport in root apex transition zone mediates aluminium-induced <i>Arabidopsis</i> root growth inhibition. <i>Plant Journal</i> , 2021, 108, 55-66.	5.7	14
58	Time-series transcriptome comparison reveals the gene regulation network under salt stress in soybean (<i>Glycine max</i>) roots. <i>BMC Plant Biology</i> , 2022, 22, 157.	3.6	14
59	<i>Serratia marcescens</i> PLR enhances lateral root formation through supplying PLR-derived auxin and enhancing auxin biosynthesis in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 3711-3725.	4.8	13
60	Contribution of Microbial Inter-kingdom Balance to Plant Health. <i>Molecular Plant</i> , 2019, 12, 148-149.	8.3	12
61	AhABI4s Negatively Regulate Salt-Stress Response in Peanut. <i>Frontiers in Plant Science</i> , 2021, 12, 741641.	3.6	12
62	Initiation and maintenance of plant stem cells in root and shoot apical meristems. <i>ABIOTECH</i> , 2020, 1, 194-204.	3.9	11
63	Cell-type action specificity of auxin on <i>Arabidopsis</i> root growth. <i>Plant Journal</i> , 2021, 106, 928-941.	5.7	11
64	A facile nitrogen-doped carbon encapsulation of CoFe ₂ O ₄ nanocrystalline for enhanced performance of lithium ion battery anodes. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 19-27.	2.5	10
65	26S Proteasome: Hunter and Prey in Auxin Signaling. <i>Trends in Plant Science</i> , 2016, 21, 546-548.	8.8	10
66	Topoisomerase II-associated protein PAT1H1 is involved in the root stem cell niche maintenance in <i>Arabidopsis thaliana</i> . <i>Plant Cell Reports</i> , 2016, 35, 1297-1307.	5.6	10
67	CO ₂ is a key constituent of the plant growth-promoting volatiles generated by bacteria in a sealed system. <i>Plant Cell Reports</i> , 2021, 40, 59-68.	5.6	8
68	The <i>Arabidopsis</i> Root Tip (Phospho)Proteomes at Growth-Promoting versus Growth-Repressing Conditions Reveal Novel Root Growth Regulators. <i>Cells</i> , 2021, 10, 1665.	4.1	8
69	GUN1-Interacting Proteins Open the Door for Retrograde Signaling. <i>Trends in Plant Science</i> , 2019, 24, 884-887.	8.8	7
70	The pre-mRNA splicing factor RDM16 regulates root stem cell maintenance in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2021, 63, 662-678.	8.5	7
71	A feedback regulation between ARF7-mediated auxin signaling and auxin homeostasis involving MES17 affects plant gravitropism. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 1339-1351.	8.5	6
72	Genome-Wide Identification of Auxin Response Factors in Peanut (<i>Arachis hypogaea</i> L.) and Functional Analysis in Root Morphology. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5309.	4.1	5

#	ARTICLE	IF	CITATIONS
73	Meristem Biology Flourishes Under Mt. Tai. <i>Molecular Plant</i> , 2016, 9, 1224-1227.	8.3	0
74	Transition Zone1 Negatively Regulates Arabidopsis Aluminum Resistance Through Interaction With Aconitases. <i>Frontiers in Plant Science</i> , 2021, 12, 827797.	3.6	0