Ikram Blilou

List of Publications by Year
in descending order

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60	10,501	109321	128289
papers	citations	35 h-index	60 g-index

68	68	68	8158
all docs	docs citations	times ranked	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	The PLETHORA Genes Mediate Patterning of the Arabidopsis Root Stem Cell Niche. Cell, 2004, 119, 109-120.	28.9	1,022
3	AtPIN4 Mediates Sink-Driven Auxin Gradients and Root Patterning in Arabidopsis. Cell, 2002, 108, 661-673.	28.9	763
4	Polar PIN Localization Directs Auxin Flow in Plants. Science, 2006, 312, 883-883.	12.6	754
5	PLETHORA proteins as dose-dependent master regulators of Arabidopsis root development. Nature, 2007, 449, 1053-1057.	27.8	743
6	An Evolutionarily Conserved Mechanism Delimiting SHR Movement Defines a Single Layer of Endodermis in Plants. Science, 2007, 316, 421-425.	12.6	522
7	The PIN auxin efflux facilitators: evolutionary and functional perspectives. Trends in Plant Science, 2005, 10, 170-177.	8.8	383
8	The RETINOBLASTOMA-RELATED Gene Regulates Stem Cell Maintenance in Arabidopsis Roots. Cell, 2005, 123, 1337-1349.	28.9	336
9	Unraveling Root Developmental Programs Initiated by BeneficialPseudomonasspp. Bacteria Â Â Â. Plant Physiology, 2013, 162, 304-318.	4.8	288
10	Whole-Genome Analysis of the SHORT-ROOT Developmental Pathway in Arabidopsis. PLoS Biology, 2006, 4, e143.	5.6	283
11	A Bistable Circuit Involving SCARECROW-RETINOBLASTOMA Integrates Cues to Inform Asymmetric Stem Cell Division. Cell, 2012, 150, 1002-1015.	28.9	273
12	Arabidopsis JACKDAW and MAGPIE zinc finger proteins delimit asymmetric cell division and stabilize tissue boundaries by restricting SHORT-ROOT action. Genes and Development, 2007, 21, 2196-2204.	5.9	245
13	A Jasmonate Signaling Network Activates Root Stem Cells and Promotes Regeneration. Cell, 2019, 177, 942-956.e14.	28.9	233
14	Generation of cell polarity in plants links endocytosis, auxin distribution and cell fate decisions. Nature, 2008, 456, 962-966.	27.8	228
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	The Arabidopsis HOBBIT gene encodes a CDC27 homolog that links the plant cell cycle to progression of cell differentiation. Genes and Development, 2002, 16, 2566-2575.	5.9	166
17	Induction of Ltp (lipid transfer protein) and Pal (phenylalanine ammoniaâ€lyase) gene expression in rice roots colonized by the arbuscular mycorrhizal fungus Glomus mosseae. Journal of Experimental Botany, 2000, 51, 1969-1977.	4.8	142
18	In situ hybridization technique for mRNA detection in whole mount Arabidopsis samples. Nature Protocols, 2006, 1, 1939-1946.	12.0	141

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19	A SCARECROW-RETINOBLASTOMA Protein Network Controls Protective Quiescence in the Arabidopsis Root Stem Cell Organizer. PLoS Biology, 2013, 11, e1001724.	5.6	137
20	Transcriptional control of tissue formation throughout root development. Science, 2015, 350, 426-430.	12.6	128
21	In vivo FRETâ€“FLIM reveals cell-type-specific protein interactions in Arabidopsis roots. Nature, 2017, 548, 97-102.	27.8	128
22	Arabidopsis PLETHORA Transcription Factors Control Phyllotaxis. Current Biology, 2011, 21, 1123-1128.	3.9	124
23	Oasis desert farming selects environmentâ€specific date palm root endophytic communities and cultivable bacteria that promote resistance to drought. Environmental Microbiology Reports, 2015, 7, 668-678.	2.4	122
24	Arabidopsis BIRD Zinc Finger Proteins Jointly Stabilize Tissue Boundaries by Confining the Cell Fate Regulator SHORT-ROOT and Contributing to Fate Specification. Plant Cell, 2015, 27, 1185-1199.	6.6	121
25	JACKDAW controls epidermal patterning in the Arabidopsis root meristem through a non-cell-autonomous mechanism. Development (Cambridge), 2010, 137, 1523-1529.	2.5	119
26	The apocarotenoid metabolite zaxinone regulates growth and strigolactone biosynthesis in rice. Nature Communications, 2019, 10, 810.	12.8	113
27	Root stem cell niche organizer specification by molecular convergence of PLETHORA and SCARECROW transcription factor modules. Genes and Development, 2018, 32, 1085-1100.	5.9	100
28	Induction of catalase and ascorbate peroxidase activities in tobacco roots inoculated with the arbuscular mycorrhizal Glomus mosseae. Mycological Research, 2000, 104, 722-725.	2.5	91
29	Arabidopsis RETINOBLASTOMA RELATED directly regulates DNA damage responses through functions beyond cell cycle control. EMBO Journal, 2017, 36, 1261-1278.	7.8	83
30	Tracking transcription factor mobility and interaction in Arabidopsis roots with fluorescence correlation spectroscopy. ELife, 2016, 5, .	6.0	79
31	Anchorene is a carotenoid-derived regulatory metabolite required for anchor root formation in Arabidopsis. Science Advances, 2019, 5, eaaw6787.	10.3	67
32	A plant U-box protein, PUB4, regulates asymmetric cell division and cell proliferation in the root meristem. Development (Cambridge), 2015, 142, 444-453.	2.5	61
33	The Arabidopsis DWARF27 gene encodes an all-trans-/9-cis-Î²-carotene isomerase and is induced by auxin, abscisic acid and phosphate deficiency. Plant Science, 2018, 277, 33-42.	3.6	59
34	<scp>SCARECROW</scp>â€<scp>LIKE</scp>23 and <scp>SCARECROW</scp> jointly specify endodermal cell fate but distinctly control <scp>SHORT</scp>â€<scp>ROOT</scp> movement. Plant Journal, 2015, 84, 773-784.	5.7	52
35	Transcription Factor-Mediated Control of Anthocyanin Biosynthesis in Vegetative Tissues. Plant Physiology, 2018, 176, 1862-1878.	4.8	41
36	A computational framework for cortical microtubule dynamics in realistically shaped plant cells. PLoS Computational Biology, 2018, 14, e1005959.	3.2	39

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37	Orthologous receptor kinases quantitatively affect the host status of barley to leaf rust fungi. Nature Plants, 2019, 5, 1129-1135.	9.3	37
38	Rooting in the Desert: A Developmental Overview on Desert Plants. Genes, 2021, 12, 709.	2.4	26
39	Emergent Protective Organogenesis in Date Palms: A Morpho-Devo-Dynamic Adaptive Strategy during Early Development. Plant Cell, 2019, 31, 1751-1766.	6.6	24
40	Novel Imaging Modalities Shedding Light on Plant Biology: Start Small and Grow Big. Annual Review of Plant Biology, 2020, 71, 789-816.	18.7	22
41	Optimizing FRET-FLIM Labeling Conditions to Detect Nuclear Protein Interactions at Native Expression Levels in Living Arabidopsis Roots. Frontiers in Plant Science, 2018, 9, 639.	3.6	21
42	Minimally-invasive, real-time, non-destructive, species-independent phytohormone biosensor for precision farming. Biosensors and Bioelectronics, 2022, 214, 114515.	10.1	20
43	The logic of communication: roles for mobile transcription factors in plants. Journal of Experimental Botany, 2015, 66, 1133-1144.	4.8	19
44	Multi-omics approaches explain the growth-promoting effect of the apocarotenoid growth regulator zaxinone in rice. Communications Biology, 2021, 4, 1222.	4.4	18
45	Role of Tulipa gesneriana TEOSINTE BRANCHED1 (TgTB1) in the control of axillary bud outgrowth in bulbs. Plant Reproduction, 2018, 31, 145-157.	2.2	17
46	INDETERMINATE-DOMAIN 4 (IDD4) coordinates immune responses with plant-growth in Arabidopsis thaliana. PLoS Pathogens, 2019, 15, e1007499.	4.7	17
47	Isoâ€anchorene is an endogenous metabolite that inhibits primary root growth in Arabidopsis. Plant Journal, 2021, 107, 54-66.	5.7	16
48	The Arabidopsis homolog of human G3BP1 is a key regulator of stomatal and apoplastic immunity. Life Science Alliance, 2018, 1, e201800046.	2.8	16
49	Moving with purpose and direction: transcription factor movement and cell fate determination revisited. Current Opinion in Plant Biology, 2020, 57, 124-132.	7.1	15
50	Robust, Longâ€Term, and Exceptionally Sensitive Microneedleâ€Based Bioimpedance Sensor for Precision Farming. Advanced Science, 2021, 8, e2101261.	11.2	14
51	A type dependent effect of treated wastewater matrix on seed germination and food production. Science of the Total Environment, 2021, 769, 144573.	8.0	12
52	MultipleXLab: A high-throughput portable live-imaging root phenotyping platform using deep learning and computer vision. Plant Methods, 2022, 18, 38.	4.3	10
53	Analysis of a Plant Transcriptional Regulatory Network Using Transient Expression Systems. Methods in Molecular Biology, 2017, 1629, 83-103.	0.9	8
54	Cell-to-Cell Communication During Plant-Pathogen Interaction. Molecular Plant-Microbe Interactions, 2022, 35, 98-108.	2.6	7

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55	A PLETHORA/PIN-FORMED/auxin network mediates prehaustorium formation in the parasitic plant Striga hermonthica. Plant Physiology, 2022, 189, 2281-2297.	4.8	7
56	Development and Cell Cycle Activity of the Root Apical Meristem in the Fern Ceratopteris richardii. Genes, 2020, 11, 1455.	2.4	6
57	Analysis of the Arabidopsiscoilinmutant reveals a positive role of AtCOILIN in plant immunity. Plant Physiology, 2022, 190, 745-761.	4.8	6
58	Evaluation of the Biostimulant Activity of Zaxinone Mimics (MiZax) in Crop Plants. Frontiers in Plant Science, 0, 13, .	3.6	5
59	A Semi-In Vivo Transcriptional Assay to Dissect Plant Defense Regulatory Modules. Methods in Molecular Biology, 2021, 2328, 203-214.	0.9	4
60	Visualizing Protein Associations in Living Arabidopsis Embryo. Methods in Molecular Biology, 2020, 2122, 167-188.	0.9	2