Eva BenkovÃ¡

List of Publications by Year
in descending order

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Version: 2024-02-01

69	17,785	41344	91884
papers	citations	49 h-index	69 g-index

74	74	74	10868
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Local, Efflux-Dependent Auxin Gradients as a Common Module for Plant Organ Formation. Cell, 2003, 115, 591-602.	28.9	2,313
2	Lateral relocation of auxin efflux regulator PIN3 mediates tropism in Arabidopsis. Nature, 2002, 415, 806-809.	27.8	1,299
3	Nitrate-Regulated Auxin Transport by NRT1.1 Defines a Mechanism for Nutrient Sensing in Plants. Developmental Cell, 2010, 18, 927-937.	7.0	870
4	PIN Proteins Perform a Rate-Limiting Function in Cellular Auxin Efflux. Science, 2006, 312, 914-918.	12.6	805
5	AtPIN4 Mediates Sink-Driven Auxin Gradients and Root Patterning in Arabidopsis. Cell, 2002, 108, 661-673.	28.9	763
6	Polar PIN Localization Directs Auxin Flow in Plants. Science, 2006, 312, 883-883.	12.6	754
7	The auxin influx carrier LAX3 promotes lateral root emergence. Nature Cell Biology, 2008, 10, 946-954.	10.3	715
8	Ethylene Regulates Root Growth through Effects on Auxin Biosynthesis and Transport-Dependent Auxin Distribution. Plant Cell, 2007, 19, 2197-2212.	6.6	682
9	Arabidopsis lateral root development: an emerging story. Trends in Plant Science, 2009, 14, 399-408.	8.8	681
10	Functional redundancy of PIN proteins is accompanied by auxin-dependent cross-regulation of PIN expression. Development (Cambridge), 2005, 132, 4521-4531.	2.5	574
11	Auxin acts as a local morphogenetic trigger to specify lateral root founder cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8790-8794.	7.1	527
12	Cytokinins Act Directly on Lateral Root Founder Cells to Inhibit Root Initiation. Plant Cell, 2008, 19, 3889-3900.	6.6	498
13	The Arabidopsis BODENLOS gene encodes an auxin response protein inhibiting MONOPTEROS-mediated embryo patterning. Genes and Development, 2002, 16, 1610-1615.	5.9	485
14	Hormonal Interactions in the Regulation of Plant Development. Annual Review of Cell and Developmental Biology, 2012, 28, 463-487.	9.4	480
15	Subcellular homeostasis of phytohormone auxin is mediated by the ER-localized PIN5 transporter. Nature, 2009, 459, 1136-1140.	27.8	462
16	Canalization of auxin flow by Aux/IAA-ARF-dependent feedback regulation of PIN polarity. Genes and Development, 2006, 20, 2902-2911.	5.9	395
17	A Mutually Inhibitory Interaction between Auxin and Cytokinin Specifies Vascular Pattern in Roots. Current Biology, 2011, 21, 917-926.	3.9	359
18	Cytokinin regulates root meristem activity via modulation of the polar auxin transport. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4284-4289.	7.1	340

#	Article	IF	Citations
19	Role of PIN-mediated auxin efflux in apical hook development ofArabidopsis thaliana. Development (Cambridge), 2010, 137, 607-617.	2.5	297
20	Cytokinin Modulates Endocytic Trafficking of PIN1 Auxin Efflux Carrier to Control Plant Organogenesis. Developmental Cell, 2011, 21, 796-804.	7.0	268
21	Cytokinin cross-talking during biotic and abiotic stress responses. Frontiers in Plant Science, 2013, 4, 451.	3.6	251
22	ARF GEF-Dependent Transcytosis and Polar Delivery of PIN Auxin Carriers in Arabidopsis. Current Biology, 2008, 18, 526-531.	3.9	250
23	The auxin influx carriers AUX1 and LAX3 are involved in auxin-ethylene interactions during apical hook development inArabidopsis thalianaseedlings. Development (Cambridge), 2010, 137, 597-606.	2.5	226
24	Immunocytochemical techniques for whole-mount in situ protein localization in plants. Nature Protocols, 2006, 1, 98-103.	12.0	201
25	The Transcription Factors BEL1 and SPL Are Required for Cytokinin and Auxin Signaling During Ovule Development in Arabidopsis. Plant Cell, 2012, 24, 2886-2897.	6.6	186
26	Polarization of PIN3â€dependent auxin transport for hypocotyl gravitropic response in Arabidopsis thaliana. Plant Journal, 2011, 67, 817-826.	5.7	171
27	Spatiotemporal Regulation of Lateral Root Organogenesis in Arabidopsis by Cytokinin. Plant Cell, 2012, 24, 3967-3981.	6.6	162
28	Cytokinin Controls Polarity of PIN1-Dependent Auxin Transport during Lateral Root Organogenesis. Current Biology, 2014, 24, 1031-1037.	3.9	152
29	Auxin reflux between the endodermis and pericycle promotes lateral root initiation. EMBO Journal, 2012, 32, 149-158.	7.8	148
30	Hormone interactions at the root apical meristem. Plant Molecular Biology, 2009, 69, 383-396.	3.9	141
31	An Auxin Transport Mechanism Restricts Positive Orthogravitropism in Lateral Roots. Current Biology, 2013, 23, 817-822.	3.9	134
32	Inhibition of cell expansion by rapid ABP1-mediated auxin effect on microtubules. Nature, 2014, 516, 90-93.	27.8	129
33	Live tracking of moving samples in confocal microscopy for vertically grown roots. ELife, 2017, 6, .	6.0	123
34	Inositol Trisphosphate-Induced Ca2+ Signaling Modulates Auxin Transport and PIN Polarity. Developmental Cell, 2011, 20, 855-866.	7.0	121
35	Lateral root organogenesis â€" from cell to organ. Current Opinion in Plant Biology, 2010, 13, 677-683.	7.1	114
36	Lateral root emergence in Arabidopsis is dependent on transcription factor LBD29 regulating auxin influx carrier LAX3. Development (Cambridge), 2016, 143, 3340-9.	2.5	111

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37	Cytokinin response factors regulate PIN-FORMED auxin transporters. Nature Communications, 2015, 6, 8717.	12.8	108
38	Sequential induction of auxin efflux and influx carriers regulates lateral root emergence. Molecular Systems Biology, 2013, 9, 699.	7.2	104
39	Auxin minimum defines a developmental window for lateral root initiation. New Phytologist, 2011, 191, 970-983.	7.3	103
40	Sending mixed messages: auxin-cytokinin crosstalk in roots. Current Opinion in Plant Biology, 2011, 14, 10-16.	7.1	103
41	A morphogenetic trigger: is there an emerging concept in plant developmental biology?. Trends in Plant Science, 2009, 14, 189-193.	8.8	102
42	Nitrate Controls Root Development through Post-Transcriptional Regulation of the NRT1.1/NPF6.3 transporter/sensor. Plant Physiology, 2016, 172, pp.01047.2016.	4.8	94
43	Hierarchy of hormone action controlling apical hook development in Arabidopsis. Plant Journal, 2011, 67, 622-634.	5.7	92
44	Re-activation of Stem Cell Pathways for Pattern Restoration in Plant Wound Healing. Cell, 2019, 177, 957-969.e13.	28.9	92
45	Cytokinin Response Factor 6 Represses Cytokinin-Associated Genes during Oxidative Stress. Plant Physiology, 2016, 172, pp.00415.2016.	4.8	85
46	Targeted cell elimination reveals an auxin-guided biphasic mode of lateral root initiation. Genes and Development, 2016, 30, 471-483.	5.9	82
47	A coherent transcriptional feed-forward motif model for mediating auxin-sensitive PIN3 expression during lateral root development. Nature Communications, 2015, 6, 8821.	12.8	70
48	Cytokinin fluoroprobe reveals multiple sites of cytokinin perception at plasma membrane and endoplasmic reticulum. Nature Communications, 2020, 11, 4285.	12.8	64
49	The Arabidopsis NRT1.1 transceptor coordinately controls auxin biosynthesis and transport to regulate root branching in response to nitrate. Journal of Experimental Botany, 2020, 71, 4480-4494.	4.8	64
50	Modulation of plant root growth by nitrogen sourceâ€defined regulation of polar auxin transport. EMBO Journal, 2021, 40, e106862.	7.8	60
51	A Model of Differential Growth-Guided Apical Hook Formation in Plants. Plant Cell, 2016, 28, 2464-2477.	6.6	53
52	Strategies of seedlings to overcome their sessile nature: auxin in mobility control. Frontiers in Plant Science, 2015, 6, 218.	3.6	35
53	SYNERGISTIC ON AUXIN AND CYTOKININ 1 positively regulates growth and attenuates soil pathogen resistance. Nature Communications, 2020, 11, 2170.	12.8	34
54	Dynamic infrared imaging analysis of apical hook development in Arabidopsis: the case of brassinosteroids. New Phytologist, 2014, 202, 1398-1411.	7.3	31

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55	All Roads Lead to Auxin: Post-translational Regulation of Auxin Transport by Multiple Hormonal Pathways. Plant Communications, 2020, 1, 100048.	7.7	31
56	Root gravity response module guides differential growth determining both root bending and apical hook formation. Development (Cambridge), 2019, 146, .	2.5	24
57	Ethylene and Cytokinin: Partners in Root Growth Regulation. Molecular Plant, 2019, 12, 1312-1314.	8.3	22
58	Nitrate triggered phosphoproteome changes and a PIN2 phosphosite modulating root system architecture. EMBO Reports, 2021, 22, e51813.	4.5	22
59	Plant hormones in interactions with the environment. Plant Molecular Biology, 2016, 91, 597-597.	3.9	16
60	Spatiotemporal mechanisms of root branching. Current Opinion in Genetics and Development, 2017, 45, 82-89.	3.3	15
61	Phytohormone cytokinin guides microtubule dynamics during cell progression from proliferative to differentiated stage. EMBO Journal, 2020, 39, e104238.	7.8	15
62	Real-Time Analysis of the Apical Hook Development. Methods in Molecular Biology, 2017, 1497, 1-8.	0.9	14
63	Transporters and Mechanisms of Hormone Transport in Arabidopsis. Advances in Botanical Research, 2018, 87, 115-138.	1.1	12
64	Xyloglucan Remodeling Defines Auxin-Dependent Differential Tissue Expansion in Plants. International Journal of Molecular Sciences, 2021, 22, 9222.	4.1	9
65	A coupled mechano-biochemical model for cell polarity guided anisotropic root growth. ELife, 2021, 10, .	6.0	8
66	Methodological Advances in Auxin and Cytokinin Biology. Methods in Molecular Biology, 2017, 1569, 1-29.	0.9	7
67	Design, synthesis and perception of fluorescently labeled isoprenoid cytokinins. Phytochemistry, 2018, 150, 1-11.	2.9	7
68	Real-time Analysis of Lateral Root Organogenesis in Arabidopsis. Bio-protocol, 2015, 5, .	0.4	6
69	Seedlingsâ€™ Strategy to Overcome a Soil Barrier. Trends in Plant Science, 2016, 21, 809-811.	8.8	4