

Anna N Stepanova

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54
papers

9,935
citations

26
h-index

69
g-index

69
ext. papers

11,426
ext. citations

9.9
avg, IF

5.69
L-index

#	Paper	IF	Citations
54	Genome-wide insertional mutagenesis of <i>Arabidopsis thaliana</i> . <i>Science</i> , 2003 , 301, 653-7	33.3	4165
53	Nuclear events in ethylene signaling: a transcriptional cascade mediated by ETHYLENE-INSENSITIVE3 and ETHYLENE-RESPONSE-FACTOR1. <i>Genes and Development</i> , 1998 , 12, 3703-14	12.6	925
52	TAA1-mediated auxin biosynthesis is essential for hormone crosstalk and plant development. <i>Cell</i> , 2008 , 133, 177-91	56.2	808
51	Multilevel interactions between ethylene and auxin in <i>Arabidopsis</i> roots. <i>Plant Cell</i> , 2007 , 19, 2169-85	11.6	416
50	A Link between ethylene and auxin uncovered by the characterization of two root-specific ethylene-insensitive mutants in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2005 , 17, 2230-42	11.6	385
49	Five components of the ethylene-response pathway identified in a screen for weak ethylene-insensitive mutants in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 2992-7	11.5	312
48	The <i>Arabidopsis</i> YUCCA1 flavin monooxygenase functions in the indole-3-pyruvic acid branch of auxin biosynthesis. <i>Plant Cell</i> , 2011 , 23, 3961-73	11.6	261
47	Convergence of signaling pathways in the control of differential cell growth in <i>Arabidopsis</i> . <i>Developmental Cell</i> , 2004 , 7, 193-204	10.2	253
46	A small-molecule screen identifies L-kynurenine as a competitive inhibitor of TAA1/TAR activity in ethylene-directed auxin biosynthesis and root growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011 , 23, 3944-60	11.6	248
45	Ethylene signaling: simple ligand, complex regulation. <i>Current Opinion in Plant Biology</i> , 2013 , 16, 554-60	9.9	209
44	Ethylene signaling and response: where different regulatory modules meet. <i>Current Opinion in Plant Biology</i> , 2009 , 12, 548-55	9.9	196
43	Gene-specific translation regulation mediated by the hormone-signaling molecule EIN2. <i>Cell</i> , 2015 , 163, 684-97	56.2	184
42	The ethylene signaling pathway. <i>Science</i> , 2004 , 306, 1513-5	33.3	168
41	Ethylene signaling: from mutants to molecules. <i>Current Opinion in Plant Biology</i> , 2000 , 3, 353-60	9.9	149
40	Local auxin biosynthesis modulates gradient-directed planar polarity in <i>Arabidopsis</i> . <i>Nature Cell Biology</i> , 2009 , 11, 731-8	23.4	141
39	Local auxin sources orient the apical-basal axis in <i>Arabidopsis</i> embryos. <i>Current Biology</i> , 2013 , 23, 2506-12	23	138
38	Local Auxin Biosynthesis Is a Key Regulator of Plant Development. <i>Developmental Cell</i> , 2018 , 47, 306-318	25	127

37	Short-term growth responses to ethylene in Arabidopsis seedlings are EIN3/EIL1 independent. <i>Plant Physiology</i> , 2004 , 136, 2921-7	6.6	123
36	A mechanistic framework for auxin dependent Arabidopsis root hair elongation to low external phosphate. <i>Nature Communications</i> , 2018 , 9, 1409	17.4	79
35	Ethylene signalling and response pathway: a unique signalling cascade with a multitude of inputs and outputs. <i>Physiologia Plantarum</i> , 2005 , 123, 195-206	4.6	67
34	Genetic aspects of auxin biosynthesis and its regulation. <i>Physiologia Plantarum</i> , 2014 , 151, 3-12	4.6	59
33	Arabidopsis SABRE and CLASP interact to stabilize cell division plane orientation and planar polarity. <i>Nature Communications</i> , 2013 , 4, 2779	17.4	49
32	A recombineering-based gene tagging system for Arabidopsis. <i>Plant Journal</i> , 2011 , 66, 712-23	6.9	47
31	T-DNA mutagenesis in Arabidopsis. <i>Methods in Molecular Biology</i> , 2003 , 236, 177-88	1.4	37
30	Arabidopsis ethylene signaling pathway. <i>Science Signaling</i> , 2005 , 2005, cm4	8.8	34
29	Transcriptomic Signature of the SHATTERPROOF2 Expression Domain Reveals the Meristematic Nature of Arabidopsis Gynoecial Medial Domain. <i>Plant Physiology</i> , 2016 , 171, 42-61	6.6	24
28	Molecular mechanisms of ethylene-auxin interaction. <i>Molecular Plant</i> , 2013 , 6, 1734-7	14.4	22
27	Auxin catabolism unplugged: Role of IAA oxidation in auxin homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10742-4	11.5	21
26	A Plant Biologist's Toolbox to Study Translation. <i>Frontiers in Plant Science</i> , 2018 , 9, 873	6.2	16
25	Epigenetic silencing of a multifunctional plant stress regulator. <i>ELife</i> , 2019 , 8,	8.9	16
24	Kinetic analysis of Arabidopsis glucosyltransferase UGT74B1 illustrates a general mechanism by which enzymes can escape product inhibition. <i>Biochemical Journal</i> , 2013 , 450, 37-46	3.8	12
23	Ethylene signaling pathway. <i>Science Signaling</i> , 2005 , 2005, cm3	8.8	11
22	The Triple Response Assay and Its Use to Characterize Ethylene Mutants in Arabidopsis. <i>Methods in Molecular Biology</i> , 2017 , 1573, 163-209	1.4	10
21	An Improved Recombineering Toolset for Plants. <i>Plant Cell</i> , 2020 , 32, 100-122	11.6	10
20	RiboStreamR: a web application for quality control, analysis, and visualization of Ribo-seq data. <i>BMC Genomics</i> , 2019 , 20, 422	4.5	9

19	Genome-Wide Search for Translated Upstream Open Reading Frames in Arabidopsis Thaliana. <i>IEEE Transactions on Nanobioscience</i> , 2016 , 15, 148-57	3.4	9
18	Bypassing transcription: a shortcut in cytokinin-auxin interactions. <i>Developmental Cell</i> , 2011 , 21, 608-10	10.2	9
17	PCR-based screening for insertional mutants. <i>Methods in Molecular Biology</i> , 2006 , 323, 163-72	1.4	8
16	Vision, challenges and opportunities for a Plant Cell Atlas. <i>ELife</i> , 2021 , 10,	8.9	8
15	A recombineering-based gene tagging system for Arabidopsis. <i>Methods in Molecular Biology</i> , 2015 , 1227, 233-43	1.4	7
14	Plant Functional Genomics. <i>Methods in Molecular Biology</i> , 2015 ,	1.4	6
13	Arabidopsis transformation with large bacterial artificial chromosomes. <i>Methods in Molecular Biology</i> , 2014 , 1062, 271-83	1.4	6
12	Leveraging synthetic biology approaches in plant hormone research. <i>Current Opinion in Plant Biology</i> , 2021 , 60, 101998	9.9	6
11	Monitoring Ethylene in Plants: Genetically Encoded Reporters and Biosensors. <i>Small Methods</i> , 2020 , 4, 1900260	12.8	6
10	Development of a relative quantification method for infrared matrix-assisted laser desorption electrospray ionization mass spectrometry imaging of Arabidopsis seedlings. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34, e8616	2.2	5
9	Auxin Interactions with Other Hormones in Plant Development. <i>Cold Spring Harbor Perspectives in Biology</i> , 2021 , 13,	10.2	5
8	A Stacking-Based Approach to Identify Translated Upstream Open Reading Frames in Arabidopsis Thaliana. <i>Lecture Notes in Computer Science</i> , 2015 , 138-149	0.9	4
7	Broadening the impact of plant science through innovative, integrative, and inclusive outreach. <i>Plant Direct</i> , 2021 , 5, e00316	3.3	4
6	To Fight or to Grow: The Balancing Role of Ethylene in Plant Abiotic Stress Responses.. <i>Plants</i> , 2021 , 11,	4.5	4
5	Structure-Function Analysis of Interallelic Complementation in Transheterozygotes. <i>Plant Physiology</i> , 2020 , 183, 1110-1125	6.6	2
4	A Ribosome Footprinting Protocol for Plants. <i>Bio-protocol</i> , 2016 , 6,	0.9	2
3	Cutting Out the Middle Man in Light-Hormone Interactions. <i>Developmental Cell</i> , 2016 , 39, 524-526	10.2	2
2	RiboSimR: A Tool for Simulation and Power Analysis of Ribo-seq Data. <i>Lecture Notes in Computer Science</i> , 2020 , 121-133	0.9	1

1 A Ribo-Seq Method to Study Genome-Wide Translational Regulation in Plants.. *Methods in Molecular Biology*, **2022**, 2494, 61-98