

Anna N Stepanova

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | A Ribo-Seq Method to Study Genome-Wide Translational Regulation in Plants.. <i>Methods in Molecular Biology</i> , 2022 , 2494, 61-98 | 1.4 | 0 |
| 53 | Leveraging synthetic biology approaches in plant hormone research. <i>Current Opinion in Plant Biology</i> , 2021 , 60, 101998 | 9.9 | 6 |
| 52 | Broadening the impact of plant science through innovative, integrative, and inclusive outreach. <i>Plant Direct</i> , 2021 , 5, e00316 | 3.3 | 4 |
| 51 | Auxin Interactions with Other Hormones in Plant Development. <i>Cold Spring Harbor Perspectives in Biology</i> , 2021 , 13, | 10.2 | 5 |
| 50 | Vision, challenges and opportunities for a Plant Cell Atlas. <i>ELife</i> , 2021 , 10, | 8.9 | 8 |
| 49 | To Fight or to Grow: The Balancing Role of Ethylene in Plant Abiotic Stress Responses.. <i>Plants</i> , 2021 , 11, | 4.5 | 4 |
| 48 | Structure-Function Analysis of Interallelic Complementation in Transheterozygotes. <i>Plant Physiology</i> , 2020 , 183, 1110-1125 | 6.6 | 2 |
| 47 | 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 |
| 46 | An Improved Recombineering Toolset for Plants. <i>Plant Cell</i> , 2020 , 32, 100-122 | 11.6 | 10 |
| 45 | 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 |
| 44 | Monitoring Ethylene in Plants: Genetically Encoded Reporters and Biosensors. <i>Small Methods</i> , 2020 , 4, 1900260 | 12.8 | 6 |
| 43 | RiboStreamR: a web application for quality control, analysis, and visualization of Ribo-seq data. <i>BMC Genomics</i> , 2019 , 20, 422 | 4.5 | 9 |
| 42 | Epigenetic silencing of a multifunctional plant stress regulator. <i>ELife</i> , 2019 , 8, | 8.9 | 16 |
| 41 | A mechanistic framework for auxin dependent Arabidopsis root hair elongation to low external phosphate. <i>Nature Communications</i> , 2018 , 9, 1409 | 17.4 | 79 |
| 40 | A Plant Biologist's Toolbox to Study Translation. <i>Frontiers in Plant Science</i> , 2018 , 9, 873 | 6.2 | 16 |
| 39 | Local Auxin Biosynthesis Is a Key Regulator of Plant Development. <i>Developmental Cell</i> , 2018 , 47, 306-318 | 10.5 | 127 |
| 38 | 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 |

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|----|---|------|-----|
| 37 | 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 |
| 36 | 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 |
| 35 | A Ribosome Footprinting Protocol for Plants. <i>Bio-protocol</i> , 2016 , 6, | 0.9 | 2 |
| 34 | Cutting Out the Middle Man in Light-Hormone Interactions. <i>Developmental Cell</i> , 2016 , 39, 524-526 | 10.2 | 2 |
| 33 | 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 |
| 32 | Plant Functional Genomics. <i>Methods in Molecular Biology</i> , 2015 , | 1.4 | 6 |
| 31 | Gene-specific translation regulation mediated by the hormone-signaling molecule EIN2. <i>Cell</i> , 2015 , 163, 684-97 | 56.2 | 184 |
| 30 | A recombineering-based gene tagging system for Arabidopsis. <i>Methods in Molecular Biology</i> , 2015 , 1227, 233-43 | 1.4 | 7 |
| 29 | 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 |
| 28 | Genetic aspects of auxin biosynthesis and its regulation. <i>Physiologia Plantarum</i> , 2014 , 151, 3-12 | 4.6 | 59 |
| 27 | Arabidopsis transformation with large bacterial artificial chromosomes. <i>Methods in Molecular Biology</i> , 2014 , 1062, 271-83 | 1.4 | 6 |
| 26 | Local auxin sources orient the apical-basal axis in Arabidopsis embryos. <i>Current Biology</i> , 2013 , 23, 2506-12 | 12.3 | 138 |
| 25 | Ethylene signaling: simple ligand, complex regulation. <i>Current Opinion in Plant Biology</i> , 2013 , 16, 554-60 | 9.9 | 209 |
| 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 | Molecular mechanisms of ethylene-auxin interaction. <i>Molecular Plant</i> , 2013 , 6, 1734-7 | 14.4 | 22 |
| 22 | Arabidopsis SABRE and CLASP interact to stabilize cell division plane orientation and planar polarity. <i>Nature Communications</i> , 2013 , 4, 2779 | 17.4 | 49 |
| 21 | Bypassing transcription: a shortcut in cytokinin-auxin interactions. <i>Developmental Cell</i> , 2011 , 21, 608-10 | 10.2 | 9 |
| 20 | A small-molecule screen identifies L-kynurenine as a competitive inhibitor of TAA1/TAR activity in ethylene-directed auxin biosynthesis and root growth in Arabidopsis. <i>Plant Cell</i> , 2011 , 23, 3944-60 | 11.6 | 248 |

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|----|--|------|------|
| 19 | A recombineering-based gene tagging system for Arabidopsis. <i>Plant Journal</i> , 2011 , 66, 712-23 | 6.9 | 47 |
| 18 | The Arabidopsis 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 |
| 17 | Ethylene signaling and response: where different regulatory modules meet. <i>Current Opinion in Plant Biology</i> , 2009 , 12, 548-55 | 9.9 | 196 |
| 16 | Local auxin biosynthesis modulates gradient-directed planar polarity in Arabidopsis. <i>Nature Cell Biology</i> , 2009 , 11, 731-8 | 23.4 | 141 |
| 15 | TAA1-mediated auxin biosynthesis is essential for hormone crosstalk and plant development. <i>Cell</i> , 2008 , 133, 177-91 | 56.2 | 808 |
| 14 | Multilevel interactions between ethylene and auxin in Arabidopsis roots. <i>Plant Cell</i> , 2007 , 19, 2169-85 | 11.6 | 416 |
| 13 | PCR-based screening for insertional mutants. <i>Methods in Molecular Biology</i> , 2006 , 323, 163-72 | 1.4 | 8 |
| 12 | A Link between ethylene and auxin uncovered by the characterization of two root-specific ethylene-insensitive mutants in Arabidopsis. <i>Plant Cell</i> , 2005 , 17, 2230-42 | 11.6 | 385 |
| 11 | Arabidopsis ethylene signaling pathway. <i>Science Signaling</i> , 2005 , 2005, cm4 | 8.8 | 34 |
| 10 | 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 |
| 9 | Ethylene signaling pathway. <i>Science Signaling</i> , 2005 , 2005, cm3 | 8.8 | 11 |
| 8 | Short-term growth responses to ethylene in Arabidopsis seedlings are EIN3/EIL1 independent. <i>Plant Physiology</i> , 2004 , 136, 2921-7 | 6.6 | 123 |
| 7 | The ethylene signaling pathway. <i>Science</i> , 2004 , 306, 1513-5 | 33.3 | 168 |
| 6 | Convergence of signaling pathways in the control of differential cell growth in Arabidopsis. <i>Developmental Cell</i> , 2004 , 7, 193-204 | 10.2 | 253 |
| 5 | Five components of the ethylene-response pathway identified in a screen for weak ethylene-insensitive mutants in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 2992-7 | 11.5 | 312 |
| 4 | T-DNA mutagenesis in Arabidopsis. <i>Methods in Molecular Biology</i> , 2003 , 236, 177-88 | 1.4 | 37 |
| 3 | Genome-wide insertional mutagenesis of Arabidopsis thaliana. <i>Science</i> , 2003 , 301, 653-7 | 33.3 | 4165 |
| 2 | Ethylene signaling: from mutants to molecules. <i>Current Opinion in Plant Biology</i> , 2000 , 3, 353-60 | 9.9 | 149 |

- 1 Nuclear events in ethylene signaling: a transcriptional cascade mediated by
ETHYLENE-INSENSITIVE3 and ETHYLENE-RESPONSE-FACTOR1. *Genes and Development*, **1998**, 12, 3703-14^{12.6} 925