

Jiřň- Friml

List of Publications by Year in descending order

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274
papers

47,382
citations

1614

105
h-index

1980

206
g-index

307
all docs

307
docs citations

307
times ranked

17203
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Local, Efflux-Dependent Auxin Gradients as a Common Module for Plant Organ Formation. <i>Cell</i> , 2003, 115, 591-602. | 28.9 | 2,313 |
| 2 | The PIN auxin efflux facilitator network controls growth and patterning in Arabidopsis roots. <i>Nature</i> , 2005, 433, 39-44. | 27.8 | 1,789 |
| 3 | Efflux-dependent auxin gradients establish the apical-basal axis of Arabidopsis. <i>Nature</i> , 2003, 426, 147-153. | 27.8 | 1,672 |
| 4 | Regulation of phyllotaxis by polar auxin transport. <i>Nature</i> , 2003, 426, 255-260. | 27.8 | 1,361 |
| 5 | Lateral relocation of auxin efflux regulator PIN3 mediates tropism in Arabidopsis. <i>Nature</i> , 2002, 415, 806-809. | 27.8 | 1,299 |
| 6 | Auxin transport inhibitors block PIN1 cycling and vesicle trafficking. <i>Nature</i> , 2001, 413, 425-428. | 27.8 | 1,174 |
| 7 | Auxin: A Trigger for Change in Plant Development. <i>Cell</i> , 2009, 136, 1005-1016. | 28.9 | 1,102 |
| 8 | PIN Proteins Perform a Rate-Limiting Function in Cellular Auxin Efflux. <i>Science</i> , 2006, 312, 914-918. | 12.6 | 805 |
| 9 | AtPIN4 Mediates Sink-Driven Auxin Gradients and Root Patterning in Arabidopsis. <i>Cell</i> , 2002, 108, 661-673. | 28.9 | 763 |
| 10 | Polar PIN Localization Directs Auxin Flow in Plants. <i>Science</i> , 2006, 312, 883-883. | 12.6 | 754 |
| 11 | The auxin influx carrier LAX3 promotes lateral root emergence. <i>Nature Cell Biology</i> , 2008, 10, 946-954. | 10.3 | 715 |
| 12 | Auxin inhibits endocytosis and promotes its own efflux from cells. <i>Nature</i> , 2005, 435, 1251-1256. | 27.8 | 712 |
| 13 | A PINOID-Dependent Binary Switch in Apical-Basal PIN Polar Targeting Directs Auxin Efflux. <i>Science</i> , 2004, 306, 862-865. | 12.6 | 703 |
| 14 | Control of leaf vascular patterning by polar auxin transport. <i>Genes and Development</i> , 2006, 20, 1015-1027. | 5.9 | 692 |
| 15 | Auxin transport routes in plant development. <i>Development (Cambridge)</i> , 2009, 136, 2675-2688. | 2.5 | 678 |
| 16 | Auxin transport – shaping the plant. <i>Current Opinion in Plant Biology</i> , 2003, 6, 7-12. | 7.1 | 648 |
| 17 | PIN-Dependent Auxin Transport: Action, Regulation, and Evolution. <i>Plant Cell</i> , 2015, 27, 20-32. | 6.6 | 643 |
| 18 | Antagonistic Regulation of PIN Phosphorylation by PP2A and PINOID Directs Auxin Flux. <i>Cell</i> , 2007, 130, 1044-1056. | 28.9 | 590 |

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|----|--|------|-----------|
| 19 | Clathrin-Mediated Constitutive Endocytosis of PIN Auxin Efflux Carriers in Arabidopsis. <i>Current Biology</i> , 2007, 17, 520-527. | 3.9 | 586 |
| 20 | Functional redundancy of PIN proteins is accompanied by auxin-dependent cross-regulation of PIN expression. <i>Development (Cambridge)</i> , 2005, 132, 4521-4531. | 2.5 | 574 |
| 21 | Intracellular trafficking and proteolysis of the Arabidopsis auxin-efflux facilitator PIN2 are involved in root gravitropism. <i>Nature Cell Biology</i> , 2006, 8, 249-256. | 10.3 | 557 |
| 22 | Auxin acts as a local morphogenetic trigger to specify lateral root founder cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8790-8794. | 7.1 | 527 |
| 23 | Subcellular homeostasis of phytohormone auxin is mediated by the ER-localized PIN5 transporter. <i>Nature</i> , 2009, 459, 1136-1140. | 27.8 | 462 |
| 24 | Cell Surface- and Rho GTPase-Based Auxin Signaling Controls Cellular Interdigitation in Arabidopsis. <i>Cell</i> , 2010, 143, 99-110. | 28.9 | 454 |
| 25 | The Chara Genome: Secondary Complexity and Implications for Plant Terrestrialization. <i>Cell</i> , 2018, 174, 448-464.e24. | 28.9 | 420 |
| 26 | The PIN-FORMED (PIN) protein family of auxin transporters. <i>Genome Biology</i> , 2009, 10, 249. | 9.6 | 410 |
| 27 | Monoubiquitin-dependent endocytosis of the IRON-REGULATED TRANSPORTER 1 (IRT1) transporter controls iron uptake in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E450-8. | 7.1 | 406 |
| 28 | Canalization of auxin flow by Aux/IAA-ARF-dependent feedback regulation of PIN polarity. <i>Genes and Development</i> , 2006, 20, 2902-2911. | 5.9 | 395 |
| 29 | Differential degradation of PIN2 auxin efflux carrier by retromer-dependent vacuolar targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17812-17817. | 7.1 | 389 |
| 30 | Interactions among PIN-FORMED and P-Glycoprotein Auxin Transporters in Arabidopsis. <i>Plant Cell</i> , 2007, 19, 131-147. | 6.6 | 387 |
| 31 | ABP1 Mediates Auxin Inhibition of Clathrin-Dependent Endocytosis in Arabidopsis. <i>Cell</i> , 2010, 143, 111-121. | 28.9 | 386 |
| 32 | A Mutually Inhibitory Interaction between Auxin and Cytokinin Specifies Vascular Pattern in Roots. <i>Current Biology</i> , 2011, 21, 917-926. | 3.9 | 359 |
| 33 | 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 |
| 34 | A novel putative auxin carrier family regulates intracellular auxin homeostasis in plants. <i>Nature</i> , 2012, 485, 119-122. | 27.8 | 345 |
| 35 | Cytokinin regulates root meristem activity via modulation of the polar auxin transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4284-4289. | 7.1 | 340 |
| 36 | PIN Polarity Maintenance by the Cell Wall in Arabidopsis. <i>Current Biology</i> , 2011, 21, 338-343. | 3.9 | 336 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | A Molecular Framework for Plant Regeneration. <i>Science</i> , 2006, 311, 385-388. | 12.6 | 312 |
| 38 | Molecular and cellular aspects of auxin-transport-mediated development. <i>Trends in Plant Science</i> , 2007, 12, 160-168. | 8.8 | 304 |
| 39 | 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 |
| 40 | 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 |
| 41 | Clathrin Mediates Endocytosis and Polar Distribution of PIN Auxin Transporters in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 1920-1931. | 6.6 | 291 |
| 42 | 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 |
| 43 | Cell Surface ABP1-TMK Auxin-Sensing Complex Activates ROP GTPase Signaling. <i>Science</i> , 2014, 343, 1025-1028. | 12.6 | 276 |
| 44 | Cytokinin Modulates Endocytic Trafficking of PIN1 Auxin Efflux Carrier to Control Plant Organogenesis. <i>Developmental Cell</i> , 2011, 21, 796-804. | 7.0 | 268 |
| 45 | The march of the PINs: developmental plasticity by dynamic polar targeting in plant cells. <i>EMBO Journal</i> , 2010, 29, 2700-2714. | 7.8 | 259 |
| 46 | Endocytosis of Cell Surface Material Mediates Cell Plate Formation during Plant Cytokinesis. <i>Developmental Cell</i> , 2006, 10, 137-150. | 7.0 | 254 |
| 47 | Polar Targeting and Endocytic Recycling in Auxin-Dependent Plant Development. <i>Annual Review of Cell and Developmental Biology</i> , 2008, 24, 447-473. | 9.4 | 252 |
| 48 | BIG: a calossin-like protein required for polar auxin transport in <i>Arabidopsis</i> . <i>Genes and Development</i> , 2001, 15, 1985-1997. | 5.9 | 250 |
| 49 | ARF GEF-Dependent Transcytosis and Polar Delivery of PIN Auxin Carriers in <i>Arabidopsis</i> . <i>Current Biology</i> , 2008, 18, 526-531. | 3.9 | 250 |
| 50 | Subcellular Trafficking of the <i>Arabidopsis</i> Auxin Influx Carrier AUX1 Uses a Novel Pathway Distinct from PIN1. <i>Plant Cell</i> , 2006, 18, 3171-3181. | 6.6 | 239 |
| 51 | Auxin transport inhibitors impair vesicle motility and actin cytoskeleton dynamics in diverse eukaryotes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4489-4494. | 7.1 | 239 |
| 52 | ABCB19/PGP19 stabilises PIN1 in membrane microdomains in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2009, 57, 27-44. | 5.7 | 239 |
| 53 | The TPLATE Adaptor Complex Drives Clathrin-Mediated Endocytosis in Plants. <i>Cell</i> , 2014, 156, 691-704. | 28.9 | 238 |
| 54 | A regulated auxin minimum is required for seed dispersal in <i>Arabidopsis</i> . <i>Nature</i> , 2009, 459, 583-586. | 27.8 | 237 |

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|----|---|------|-----------|
| 55 | 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 |
| 56 | Recycling, clustering, and endocytosis jointly maintain PIN auxin carrier polarity at the plasma membrane. <i>Molecular Systems Biology</i> , 2011, 7, 540. | 7.2 | 232 |
| 57 | Generation of cell polarity in plants links endocytosis, auxin distribution and cell fate decisions. <i>Nature</i> , 2008, 456, 962-966. | 27.8 | 228 |
| 58 | Cell wall constrains lateral diffusion of plant plasma-membrane proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12805-12810. | 7.1 | 224 |
| 59 | Fluorescent castasterone reveals BRI1 signaling from the plasma membrane. <i>Nature Chemical Biology</i> , 2012, 8, 583-589. | 8.0 | 203 |
| 60 | Immunocytochemical techniques for whole-mount in situ protein localization in plants. <i>Nature Protocols</i> , 2006, 1, 98-103. | 12.0 | 201 |
| 61 | Plasma membrane-bound AGC3 kinases phosphorylate PIN auxin carriers at TPRXS(N/S) motifs to direct apical PIN recycling. <i>Development (Cambridge)</i> , 2010, 137, 3245-3255. | 2.5 | 201 |
| 62 | Rapid and reversible root growth inhibition by TIR1 auxin signalling. <i>Nature Plants</i> , 2018, 4, 453-459. | 9.3 | 198 |
| 63 | Interaction of PIN and PGP transport mechanisms in auxin distribution-dependent development. <i>Development (Cambridge)</i> , 2008, 135, 3345-3354. | 2.5 | 196 |
| 64 | Flavonoids Redirect PIN-mediated Polar Auxin Fluxes during Root Gravitropic Responses. <i>Journal of Biological Chemistry</i> , 2008, 283, 31218-31226. | 3.4 | 187 |
| 65 | A Major Facilitator Superfamily Transporter Plays a Dual Role in Polar Auxin Transport and Drought Stress Tolerance in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 901-926. | 6.6 | 187 |
| 66 | ROP GTPase-Dependent Actin Microfilaments Promote PIN1 Polarization by Localized Inhibition of Clathrin-Dependent Endocytosis. <i>PLoS Biology</i> , 2012, 10, e1001299. | 5.6 | 186 |
| 67 | Transcription factor WRKY23 assists auxin distribution patterns during <i>Arabidopsis</i> root development through local control on flavonol biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1554-1559. | 7.1 | 184 |
| 68 | GOLVEN Secretory Peptides Regulate Auxin Carrier Turnover during Plant Gravitropic Responses. <i>Developmental Cell</i> , 2012, 22, 678-685. | 7.0 | 182 |
| 69 | Local Auxin Sources Orient the Apical-Basal Axis in <i>Arabidopsis</i> Embryos. <i>Current Biology</i> , 2013, 23, 2506-2512. | 3.9 | 182 |
| 70 | A ROP GTPase-Dependent Auxin Signaling Pathway Regulates the Subcellular Distribution of PIN2 in <i>Arabidopsis</i> Roots. <i>Current Biology</i> , 2012, 22, 1319-1325. | 3.9 | 177 |
| 71 | Subcellular trafficking of PIN auxin efflux carriers in auxin transport. <i>European Journal of Cell Biology</i> , 2010, 89, 231-235. | 3.6 | 175 |
| 72 | PIN phosphorylation is sufficient to mediate PIN polarity and direct auxin transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 918-922. | 7.1 | 175 |

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|----|--|------|-----------|
| 73 | Polarization of PIN3-dependent auxin transport for hypocotyl gravitropic response in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2011, 67, 817-826. | 5.7 | 171 |
| 74 | The Clathrin Adaptor Complex AP-2 Mediates Endocytosis of BRASSINOSTEROID INSENSITIVE1 in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 2986-2997. | 6.6 | 171 |
| 75 | Fluorescence Imaging-Based Screen Identifies ARF GEF Component of Early Endosomal Trafficking. <i>Current Biology</i> , 2009, 19, 391-397. | 3.9 | 167 |
| 76 | PIN Auxin Efflux Carrier Polarity Is Regulated by PINOID Kinase-Mediated Recruitment into GNOM-Independent Trafficking in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2010, 21, 3839-3849. | 6.6 | 165 |
| 77 | Clathrin-mediated endocytosis: the gateway into plant cells. <i>Current Opinion in Plant Biology</i> , 2011, 14, 674-682. | 7.1 | 163 |
| 78 | An Auxin-Mediated Shift toward Growth Isotropy Promotes Organ Formation at the Shoot Meristem in <i>Arabidopsis</i> . <i>Current Biology</i> , 2014, 24, 2335-2342. | 3.9 | 161 |
| 79 | TMK1-mediated auxin signalling regulates differential growth of the apical hook. <i>Nature</i> , 2019, 568, 240-243. | 27.8 | 156 |
| 80 | TIR1/AFB-Aux/IAA auxin perception mediates rapid cell wall acidification and growth of <i>Arabidopsis</i> hypocotyls. <i>ELife</i> , 2016, 5, . | 6.0 | 156 |
| 81 | Competitive canalization of PIN-dependent auxin flow from axillary buds controls pea bud outgrowth. <i>Plant Journal</i> , 2011, 65, 571-577. | 5.7 | 152 |
| 82 | SCFTIR1/AFB-auxin signalling regulates PIN vacuolar trafficking and auxin fluxes during root gravitropism. <i>EMBO Journal</i> , 2012, 32, 260-274. | 7.8 | 152 |
| 83 | Cytokinin Controls Polarity of PIN1-Dependent Auxin Transport during Lateral Root Organogenesis. <i>Current Biology</i> , 2014, 24, 1031-1037. | 3.9 | 152 |
| 84 | A map of cell type-specific auxin responses. <i>Molecular Systems Biology</i> , 2013, 9, 688. | 7.2 | 150 |
| 85 | The <i>Arabidopsis</i> Synaptotagmin1 Is Enriched in Endoplasmic Reticulum-Plasma Membrane Contact Sites and Confers Cellular Resistance to Mechanical Stresses. <i>Plant Physiology</i> , 2015, 168, 132-143. | 4.8 | 150 |
| 86 | ABP1 and ROP6 GTPase Signaling Regulate Clathrin-Mediated Endocytosis in <i>Arabidopsis</i> Roots. <i>Current Biology</i> , 2012, 22, 1326-1332. | 3.9 | 145 |
| 87 | Bipolar Plasma Membrane Distribution of Phosphoinositides and Their Requirement for Auxin-Mediated Cell Polarity and Patterning in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 2114-2128. | 6.6 | 144 |
| 88 | In situ hybridization technique for mRNA detection in whole mount <i>Arabidopsis</i> samples. <i>Nature Protocols</i> , 2006, 1, 1939-1946. | 12.0 | 141 |
| 89 | Auxin transporters and binding proteins at a glance. <i>Journal of Cell Science</i> , 2015, 128, 1-7. | 2.0 | 137 |
| 90 | Maintenance of Embryonic Auxin Distribution for Apical-Basal Patterning by PIN-FORMED-Dependent Auxin Transport in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2005, 17, 2517-2526. | 6.6 | 135 |

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|-----|--|------|-----------|
| 91 | PIN Polar Targeting. <i>Plant Physiology</i> , 2008, 147, 1553-1559. | 4.8 | 130 |
| 92 | ADP-ribosylation factor machinery mediates endocytosis in plant cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21890-21895. | 7.1 | 129 |
| 93 | Inhibition of cell expansion by rapid ABP1-mediated auxin effect on microtubules. <i>Nature</i> , 2014, 516, 90-93. | 27.8 | 129 |
| 94 | The AP-3 \hat{I}^2 Adaptin Mediates the Biogenesis and Function of Lytic Vacuoles in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2010, 22, 2812-2824. | 6.6 | 128 |
| 95 | Cell surface and intracellular auxin signalling for H ⁺ fluxes in root growth. <i>Nature</i> , 2021, 599, 273-277. | 27.8 | 128 |
| 96 | V-ATPase activity in the TGN/EE is required for exocytosis and recycling in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2015, 1, 15094. | 9.3 | 127 |
| 97 | Automated whole mount localisation techniques for plant seedlings. <i>Plant Journal</i> , 2003, 34, 115-124. | 5.7 | 126 |
| 98 | Emergence of tissue polarization from synergy of intracellular and extracellular auxin signaling. <i>Molecular Systems Biology</i> , 2010, 6, 447. | 7.2 | 126 |
| 99 | Asymmetric gibberellin signaling regulates vacuolar trafficking of PIN auxin transporters during root gravitropism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3627-3632. | 7.1 | 126 |
| 100 | Cellular and Molecular Requirements for Polar PIN Targeting and Transcytosis in Plants. <i>Molecular Plant</i> , 2008, 1, 1056-1066. | 8.3 | 124 |
| 101 | Maternal auxin supply contributes to early embryo patterning in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2018, 4, 548-553. | 9.3 | 123 |
| 102 | Live tracking of moving samples in confocal microscopy for vertically grown roots. <i>ELife</i> , 2017, 6, . | 6.0 | 123 |
| 103 | Clusters of bioactive compounds target dynamic endomembrane networks in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17850-17855. | 7.1 | 122 |
| 104 | A noncanonical auxin-sensing mechanism is required for organ morphogenesis in <i>Arabidopsis</i> . <i>Genes and Development</i> , 2016, 30, 2286-2296. | 5.9 | 122 |
| 105 | Inositol Trisphosphate-Induced Ca ²⁺ Signaling Modulates Auxin Transport and PIN Polarity. <i>Developmental Cell</i> , 2011, 20, 855-866. | 7.0 | 121 |
| 106 | Insights into the Localization and Function of the Membrane Trafficking Regulator GNOM ARF-GEF at the Golgi Apparatus in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 3062-3076. | 6.6 | 121 |
| 107 | PIN6 auxin transporter at endoplasmic reticulum and plasma membrane mediates auxin homeostasis and organogenesis in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2016, 211, 65-74. | 7.3 | 119 |
| 108 | Auxin transport and activity regulate stomatal patterning and development. <i>Nature Communications</i> , 2014, 5, 3090. | 12.8 | 118 |

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|-----|---|------|-----------|
| 109 | The AP-3 adaptor complex is required for vacuolar function in Arabidopsis. <i>Cell Research</i> , 2011, 21, 1711-1722. | 12.0 | 114 |
| 110 | Danger-associated peptide signaling in <i>Arabidopsis</i> requires clathrin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11028-11033. | 7.1 | 114 |
| 111 | Developmental regulation of CYCA2s contributes to tissue-specific proliferation in <i>Arabidopsis</i> . <i>EMBO Journal</i> , 2011, 30, 3430-3441. | 7.8 | 113 |
| 112 | Directional Auxin Transport Mechanisms in Early Diverging Land Plants. <i>Current Biology</i> , 2014, 24, 2786-2791. | 3.9 | 113 |
| 113 | Origin and evolution of PIN auxin transporters in the green lineage. <i>Trends in Plant Science</i> , 2013, 18, 5-10. | 8.8 | 109 |
| 114 | Cytokinin response factors regulate PIN-FORMED auxin transporters. <i>Nature Communications</i> , 2015, 6, 8717. | 12.8 | 108 |
| 115 | Adaptor Protein Complex 2-Mediated Endocytosis Is Crucial for Male Reproductive Organ Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 2970-2985. | 6.6 | 106 |
| 116 | Probing plant membranes with FM dyes: tracking, dragging or blocking?. <i>Plant Journal</i> , 2010, 61, 883-892. | 5.7 | 104 |
| 117 | Sequential induction of auxin efflux and influx carriers regulates lateral root emergence. <i>Molecular Systems Biology</i> , 2013, 9, 699. | 7.2 | 104 |
| 118 | Auxin minimum defines a developmental window for lateral root initiation. <i>New Phytologist</i> , 2011, 191, 970-983. | 7.3 | 103 |
| 119 | BEX5/RabA1b Regulates <i>trans</i> -Golgi Network-to-Plasma Membrane Protein Trafficking in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 3074-3086. | 6.6 | 102 |
| 120 | Salicylic acid-mediated plasmodesmal closure via Remorin-dependent lipid organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21274-21284. | 7.1 | 102 |
| 121 | A Rho Scaffold Integrates the Secretory System with Feedback Mechanisms in Regulation of Auxin Distribution. <i>PLoS Biology</i> , 2010, 8, e1000282. | 5.6 | 101 |
| 122 | Salicylic acid interferes with clathrin-mediated endocytic protein trafficking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7946-7951. | 7.1 | 101 |
| 123 | Mitochondrial uncouplers inhibit clathrin-mediated endocytosis largely through cytoplasmic acidification. <i>Nature Communications</i> , 2016, 7, 11710. | 12.8 | 98 |
| 124 | Polar auxin transport--old questions and new concepts?. <i>Plant Molecular Biology</i> , 2002, 49, 273-84. | 3.9 | 98 |
| 125 | Osmotic Stress Modulates the Balance between Exocytosis and Clathrin-Mediated Endocytosis in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2015, 8, 1175-1187. | 8.3 | 95 |
| 126 | Ionic stress enhances ER-PM connectivity via phosphoinositide-associated SYT1 contact site expansion in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1420-1429. | 7.1 | 95 |

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|-----|--|------|-----------|
| 127 | A Mobile Auxin Signal Connects Temperature Sensing in Cotyledons with Growth Responses in Hypocotyls. <i>Plant Physiology</i> , 2019, 180, 757-766. | 4.8 | 94 |
| 128 | Plant embryogenesis requires AUX/LAX-mediated auxin influx. <i>Development (Cambridge)</i> , 2015, 142, 702-11. | 2.5 | 92 |
| 129 | Re-activation of Stem Cell Pathways for Pattern Restoration in Plant Wound Healing. <i>Cell</i> , 2019, 177, 957-969.e13. | 28.9 | 92 |
| 130 | Cell Plate Restricted Association of DRP1A and PIN Proteins Is Required for Cell Polarity Establishment in Arabidopsis. <i>Current Biology</i> , 2011, 21, 1055-1060. | 3.9 | 89 |
| 131 | TWISTED DWARF1 Mediates the Action of Auxin Transport Inhibitors on Actin Cytoskeleton Dynamics. <i>Plant Cell</i> , 2016, 28, 930-948. | 6.6 | 88 |
| 132 | Calcium: The Missing Link in Auxin Action. <i>Plants</i> , 2013, 2, 650-675. | 3.5 | 86 |
| 133 | Disruption of endocytosis through chemical inhibition of clathrin heavy chain function. <i>Nature Chemical Biology</i> , 2019, 15, 641-649. | 8.0 | 86 |
| 134 | ECHIDNA-mediated post-Golgi trafficking of auxin carriers for differential cell elongation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16259-16264. | 7.1 | 85 |
| 135 | A PP6-Type Phosphatase Holoenzyme Directly Regulates PIN Phosphorylation and Auxin Efflux in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 2497-2514. | 6.6 | 84 |
| 136 | Modeling Framework for the Establishment of the Apical-Basal Embryonic Axis in Plants. <i>Current Biology</i> , 2013, 23, 2513-2518. | 3.9 | 84 |
| 137 | <i>Arabidopsis</i> TWISTED DWARF1 Functionally Interacts with Auxin Exporter ABCB1 on the Root Plasma Membrane. <i>Plant Cell</i> , 2013, 25, 202-214. | 6.6 | 83 |
| 138 | Targeted cell elimination reveals an auxin-guided biphasic mode of lateral root initiation. <i>Genes and Development</i> , 2016, 30, 471-483. | 5.9 | 82 |
| 139 | Auxin signalling in growth: Schrödingers cats out of the bag. <i>Current Opinion in Plant Biology</i> , 2020, 53, 43-49. | 7.1 | 81 |
| 140 | Trafficking to the Outer Polar Domain Defines the Root-Soil Interface. <i>Current Biology</i> , 2010, 20, 904-908. | 3.9 | 80 |
| 141 | Evolutionarily unique mechanistic framework of clathrin-mediated endocytosis in plants. <i>ELife</i> , 2020, 9, . | 6.0 | 80 |
| 142 | Naphthylphthalamic acid associates with and inhibits PIN auxin transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 79 |
| 143 | Phosphoinositide-dependent regulation of VAN3 ARF-GAP localization and activity essential for vascular tissue continuity in plants. <i>Development (Cambridge)</i> , 2009, 136, 1529-1538. | 2.5 | 77 |
| 144 | Salicylic Acid Targets Protein Phosphatase 2A to Attenuate Growth in Plants. <i>Current Biology</i> , 2020, 30, 381-395.e8. | 3.9 | 76 |

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|-----|---|------|-----------|
| 145 | Termination of Shoot Gravitropic Responses by Auxin Feedback on PIN3 Polarity. <i>Current Biology</i> , 2016, 26, 3026-3032. | 3.9 | 76 |
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