# AleÅ¡ PÄ›nÄÃ-k

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 64 papers | 3,122 citations | 218677 26 h-index | 168389 53 g-index |
| 68 all docs | 68 docs citations | 68 times ranked | 4164 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A novel putative auxin carrier family regulates intracellular auxin homeostasis in plants. Nature, 2012, 485, 119-122. | 27.8 | 345 |
| 2 | ER-localized auxin transporter PIN8 regulates auxin homeostasis and male gametophyte development in Arabidopsis. Nature Communications, 2012, 3, 941. | 12.8 | 233 |
| 3 | Soluble Carbohydrates Regulate Auxin Biosynthesis via PIF Proteins in Arabidopsis Â Â. Plant Cell, 2013, 24, 4907-4916. | 6.6 | 205 |
| 4 | PIN phosphorylation is sufficient to mediate PIN polarity and direct auxin transport. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 918-922. | 7.1 | 175 |
| 5 | Dioxygenase-encoding AtDAO1 gene controls IAA oxidation and homeostasis in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11016-11021. | 7.1 | 162 |
| 6 | Regulation of Auxin Homeostasis and Gradients in Arabidopsis Roots through the Formation of the Indole-3-Acetic Acid Catabolite 2-Oxindole-3-Acetic Acid. Plant Cell, 2013, 25, 3858-3870. | 6.6 | 131 |
| 7 | The PLETHORA Gene Regulatory Network Guides Growth and Cell Differentiation in Arabidopsis Roots. Plant Cell, 2016, 28, 2937-2951. | 6.6 | 127 |
| 8 | Comparative â€œOmicsâ€•of theFusarium fujikuroiSpecies Complex Highlights Differences in Genetic Potential and Metabolite Synthesis. Genome Biology and Evolution, 2016, 8, 3574-3599. | 2.5 | 124 |
| 9 | Maternal auxin supply contributes to early embryo patterning in Arabidopsis. Nature Plants, 2018, 4, 548-553. | 9.3 | 123 |
| 10 | Dynamic regulation of auxin oxidase and conjugating enzymes AtDAO1 and GH3 modulates auxin homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11022-11027. | 7.1 | 119 |
| 11 | Endogenous Hypoxia in Lateral Root Primordia Controls Root Architecture by Antagonizing Auxin Signaling in Arabidopsis. Molecular Plant, 2019, 12, 538-551. | 8.3 | 105 |
| 12 | Isolation of novel indole-3-acetic acid conjugates by immunoaffinity extraction. Talanta, 2009, 80, 651-655. | 5.5 | 86 |
| 13 | Cytokinins Are Initial Targets of Light in the Control of Bud Outgrowth. Plant Physiology, 2016, 172, 489-509. | 4.8 | 82 |
| 14 | ENDOGENOUS CYTOKININS, AUXINS, AND ABSCISIC ACID IN RED ALGAE FROM BRAZIL<sup>1</sup>. Journal of Phycology, 2010, 46, 1198-1205. | 2.3 | 78 |
| 15 | Development of the Poplar-Laccaria bicolor Ectomycorrhiza Modifies Root Auxin Metabolism, Signaling, and Response. Plant Physiology, 2015, 169, 890-902. | 4.8 | 70 |
| 16 | Ultra-rapid auxin metabolite profiling for high-throughput mutant screening in Arabidopsis. Journal of Experimental Botany, 2018, 69, 2569-2579. | 4.8 | 60 |
| 17 | Evidence of phytohormones and phenolic acids variability in garden-waste-derived vermicompost leachate, a well-known plant growth stimulant. Plant Growth Regulation, 2015, 75, 483-492. | 3.4 | 58 |
| 18 | Endogenous cytokinins, auxins and abscisic acid inUlva fasciata(Chlorophyta) andDictyota humifusa(Phaeophyta): towards understanding their biosynthesis and homoeostasis. European Journal of Phycology, 2009, 44, 231-240. | 2.0 | 57 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Physiological role of phenolic biostimulants isolated from brown seaweed Ecklonia maxima on plant growth and development. Planta, 2015, 241, 1313-1324. | 3.2 | 51 |
| 20 | ADP1 Affects Plant Architecture by Regulating Local Auxin Biosynthesis. PLoS Genetics, 2014, 10, e1003954. | 3.5 | 47 |
| 21 | Short-term salt stress in Brassica rapa seedlings causes alterations in auxin metabolism. Plant Physiology and Biochemistry, 2018, 125, 74-84. | 5.8 | 42 |
| 22 | Timing-dependent effects of salicylic acid treatment on phytohormonal changes, ROS regulation, and antioxidant defense in salinized barley (Hordeum vulgare L.). Scientific Reports, 2020, 10, 13886. | 3.3 | 37 |
| 23 | A Conserved Cytochrome P450 Evolved in Seed Plants Regulates Flower Maturation. Molecular Plant, 2015, 8, 1751-1765. | 8.3 | 36 |
| 24 | Arabidopsis gulliver1/superroot2â€7 identifies a metabolic basis for auxin and brassinosteroid synergy. Plant Journal, 2014, 80, 797-808. | 5.7 | 35 |
| 25 | New insights into auxin metabolism in Bradyrhizobium japonicum. Research in Microbiology, 2018, 169, 313-323. | 2.1 | 31 |
| 26 | Production and Role of Hormones During Interaction of Fusarium Species With Maize (Zea mays L.) Seedlings. Frontiers in Plant Science, 2018, 9, 1936. | 3.6 | 30 |
| 27 | Ammonium regulates embryogenic potential in Cucurbita pepo through pH-mediated changes in endogenous auxin and abscisic acid. Plant Cell, Tissue and Organ Culture, 2015, 122, 89-100. | 2.3 | 28 |
| 28 | Altered Root Growth, Auxin Metabolism and Distribution in Arabidopsis thaliana Exposed to Salt and Osmotic Stress. International Journal of Molecular Sciences, 2021, 22, 7993. | 4.1 | 28 |
| 29 | Jasmonate Signalling Contributes to Primary Root Inhibition Upon Oxygen Deficiency in Arabidopsis thaliana. Plants, 2020, 9, 1046. | 3.5 | 23 |
| 30 | Inactivation of the entire Arabidopsis group II GH3s confers tolerance to salinity and water deficit. New Phytologist, 2022, 235, 263-275. | 7.3 | 23 |
| 31 | DIOXYGENASE FOR AUXIN OXIDATION 1 catalyzes the oxidation of IAA amino acid conjugates. Plant Physiology, 2021, 187, 103-115. | 4.8 | 22 |
| 32 | Endogenous Abscisic Acid Promotes Hypocotyl Growth and Affects Endoreduplication during Dark-Induced Growth in Tomato (Solanum lycopersicum L.). PLoS ONE, 2015, 10, e0117793. | 2.5 | 21 |
| 33 | CLAVATA modulates auxin homeostasis and transport to regulate stem cell identity and plant shape in a moss. New Phytologist, 2022, 234, 149-163. | 7.3 | 21 |
| 34 | Dissecting the role of two cytokinin analogues (INCYDE and PI-55) on in vitro organogenesis, phytohormone accumulation, phytochemical content and antioxidant activity. Plant Science, 2015, 238, 81-94. | 3.6 | 19 |
| 35 | Salt-Specific Gene Expression Reveals Elevated Auxin Levels in Arabidopsis thaliana Plants Grown Under Saline Conditions. Frontiers in Plant Science, 2022, 13, 804716. | 3.6 | 19 |
| 36 | Hormopriming to Mitigate Abiotic Stress Effects: A Case Study of N9-Substituted Cytokinin Derivatives With a Fluorinated Carbohydrate Moiety. Frontiers in Plant Science, 2020, 11, 599228. | 3.6 | 18 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Cytokinins are involved in drought tolerance ofPinus radiataplants originating from embryonal masses induced at high temperatures. Tree Physiology, 2021, 41, 912-926. | 3.1 | 18 |
| 38 | Auxin-cytokinin interaction and variations in their metabolic products in the regulation of organogenesis in two Eucomis species. New Biotechnology, 2016, 33, 883-890. | 4.4 | 16 |
| 39 | Embryonal Masses Induced at High Temperatures in Aleppo Pine: Cytokinin Profile and Cytological Characterization. Forests, 2020, 11, 807. | 2.1 | 16 |
| 40 | In situ characterisation of phytohormones from wounded Arabidopsis leaves using desorption electrospray ionisation mass spectrometry imaging. Analyst, The, 2021, 146, 2653-2663. | 3.5 | 16 |
| 41 | A role for the auxin precursor anthranilic acid in root gravitropism via regulation of <scp>PIN</scp>â€<scp>FORMED</scp> protein polarity and relocalisation in Arabidopsis. New Phytologist, 2019, 223, 1420-1432. | 7.3 | 12 |
| 42 | Long-Term High-Temperature Stress Impacts on Embryo and Seed Development in Brassica napus. Frontiers in Plant Science, 2022, 13, 844292. | 3.6 | 12 |
| 43 | Hormonal and cell division analyses in Watsonia lepida seedlings. Journal of Plant Physiology, 2009, 166, 1497-1507. | 3.5 | 11 |
| 44 | Endogenous Auxin Profile in the Christmas Rose (Helleborus niger L.) Flower and Fruit: Free and Amide Conjugated IAA. Journal of Plant Growth Regulation, 2012, 31, 63-78. | 5.1 | 11 |
| 45 | Hormonal and epigenetic regulation during embryogenic tissue habituation in Cucurbita pepo L.. Plant Cell Reports, 2016, 35, 77-89. | 5.6 | 11 |
| 46 | Spatiotemporal auxin distribution in Arabidopsis tissues is regulated by anabolic and catabolic reactions under long-term ammonium stress. BMC Plant Biology, 2021, 21, 602. | 3.6 | 11 |
| 47 | Cytokinin, auxin and physiological polarity in the aquatic carnivorous plantsAldrovanda vesiculosaandUtricularia australis. Annals of Botany, 2016, 117, 1037-1044. | 2.9 | 10 |
| 48 | Deciphering the growth pattern and phytohormonal content in Saskatoon berry (Amelanchier) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 | 4.4 | 10 |
| 49 | Organâ€specific phytohormone synthesis in two Geranium species with antithetical responses to farâ€red light enrichment. Plant Direct, 2018, 2, e00066. | 1.9 | 10 |
| 50 | Does sciona€“rootstock compatibility modulate photoassimilate and hormone trafficking through the graft junction in melona€“pumpkin graft combinations?. Plant Science, 2021, 306, 110852. | 3.6 | 9 |
| 51 | Xyloglucan Remodeling Defines Auxin-Dependent Differential Tissue Expansion in Plants. International Journal of Molecular Sciences, 2021, 22, 9222. | 4.1 | 9 |
| 52 | Interactions between zinc and Phomopsis longicolla infection in roots of Glycine max. Journal of Experimental Botany, 2021, 72, 3320-3336. | 4.8 | 8 |
| 53 | Maize AUXIN-BINDING PROTEIN 1 and AUXIN-BINDING PROTEIN 4 impact on leaf growth, elongation, and seedling responsiveness to auxin and light. Botany, 2012, 90, 990-1006. | 1.0 | 7 |
| 54 | Overexpression of Trp-related genes in Claviceps purpurea leading to increased ergot alkaloid production. New Biotechnology, 2021, 61, 69-79. | 4.4 | 7 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | Proteostatic Regulation of MEP and Shikimate Pathways by Redox-Activated Photosynthesis Signaling in Plants Exposed to Small Fungal Volatiles. Frontiers in Plant Science, 2021, 12, 637976. | 3.6 | 7 |
| 56 | Identification and Profiling of Auxin and Auxin Metabolites. , 2014, , 39-60. | | 6 |
| 57 | Quantitative Auxin Metabolite Profiling Using Stable Isotope Dilution UHPLCâ€MS/MS. Current Protocols in Plant Biology, 2016, 1, 419-430. | 2.8 | 6 |
| 58 | Auxin Metabolome Profiling in the Arabidopsis Endoplasmic Reticulum Using an Optimised Organelle Isolation Protocol. International Journal of Molecular Sciences, 2021, 22, 9370. | 4.1 | 6 |
| 59 | New Insights Into the Activity of Apple Dihydrochalcone Phloretin: Disturbance of Auxin Homeostasis as Physiological Basis of Phloretin Phytotoxic Action. Frontiers in Plant Science, 0, 13, . | 3.6 | 5 |
| 60 | Auxin Metabolite Profiling in Isolated and Intact Plant Nuclei. International Journal of Molecular Sciences, 2021, 22, 12369. | 4.1 | 4 |
| 61 | Insight into Details of the Photosynthetic Light Reactions and Selected Metabolic Changes in Tomato Seedlings Growing under Various Light Spectra. International Journal of Molecular Sciences, 2021, 22, 11517. | 4.1 | 3 |
| 62 | Impairment of root auxinâ€“cytokinins homeostasis induces collapse of incompatible melon grafts during fruit ripening. Horticulture Research, 2022, 9, . | 6.3 | 2 |
| 63 | The Photoperiod Stress Response in Arabidopsis thaliana Depends on Auxin Acting as an Antagonist to the Protectant Cytokinin. International Journal of Molecular Sciences, 2022, 23, 2936. | 4.1 | 1 |
| 64 | Physiological and Biochemical Responses of Merwilla plumbea Cultured In Vitro with Different Cytokinins After 1 Year of Growth Under Ex Vitro Conditions. Journal of Plant Growth Regulation, 2017, 36, 83-95. | 5.1 | 0 |