

AleÅ; PÄ>nÄÃ-k

List of Publications by Year in descending order

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64
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3,122
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4164
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | <i>CLAVATA</i> modulates auxin homeostasis and transport to regulate stem cell identity and plant shape in a moss. <i>New Phytologist</i> , 2022, 234, 149-163. | 7.3 | 21 |
| 2 | Salt-Specific Gene Expression Reveals Elevated Auxin Levels in <i>Arabidopsis thaliana</i> Plants Grown Under Saline Conditions. <i>Frontiers in Plant Science</i> , 2022, 13, 804716. | 3.6 | 19 |
| 3 | Inactivation of the entire <i>Arabidopsis</i> group II GH3s confers tolerance to salinity and water deficit. <i>New Phytologist</i> , 2022, 235, 263-275. | 7.3 | 23 |
| 4 | The Photoperiod Stress Response in <i>Arabidopsis thaliana</i> Depends on Auxin Acting as an Antagonist to the Protectant Cytokinin. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2936. | 4.1 | 1 |
| 5 | Long-Term High-Temperature Stress Impacts on Embryo and Seed Development in <i>Brassica napus</i> . <i>Frontiers in Plant Science</i> , 2022, 13, 844292. | 3.6 | 12 |
| 6 | Impairment of root auxin-cytokinins homeostasis induces collapse of incompatible melon grafts during fruit ripening. <i>Horticulture Research</i> , 2022, 9, . | 6.3 | 2 |
| 7 | Cytokinins are involved in drought tolerance of <i>Pinus radiata</i> plants originating from embryonal masses induced at high temperatures. <i>Tree Physiology</i> , 2021, 41, 912-926. | 3.1 | 18 |
| 8 | Overexpression of Trp-related genes in <i>Claviceps purpurea</i> leading to increased ergot alkaloid production. <i>New Biotechnology</i> , 2021, 61, 69-79. | 4.4 | 7 |
| 9 | Interactions between zinc and <i>Phomopsis longicolla</i> infection in roots of <i>Glycine max</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 3320-3336. | 4.8 | 8 |
| 10 | Proteostatic Regulation of MEP and Shikimate Pathways by Redox-Activated Photosynthesis Signaling in Plants Exposed to Small Fungal Volatiles. <i>Frontiers in Plant Science</i> , 2021, 12, 637976. | 3.6 | 7 |
| 11 | DIOXYGENASE FOR AUXIN OXIDATION 1 catalyzes the oxidation of IAA amino acid conjugates. <i>Plant Physiology</i> , 2021, 187, 103-115. | 4.8 | 22 |
| 12 | Does scion-rootstock compatibility modulate photoassimilate and hormone trafficking through the graft junction in melon-pumpkin graft combinations?. <i>Plant Science</i> , 2021, 306, 110852. | 3.6 | 9 |
| 13 | Altered Root Growth, Auxin Metabolism and Distribution in <i>Arabidopsis thaliana</i> Exposed to Salt and Osmotic Stress. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7993. | 4.1 | 28 |
| 14 | Xyloglucan Remodeling Defines Auxin-Dependent Differential Tissue Expansion in Plants. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9222. | 4.1 | 9 |
| 15 | Auxin Metabolome Profiling in the <i>Arabidopsis</i> Endoplasmic Reticulum Using an Optimised Organelle Isolation Protocol. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9370. | 4.1 | 6 |
| 16 | <i>In situ</i> characterisation of phytohormones from wounded <i>Arabidopsis</i> leaves using desorption electrospray ionisation mass spectrometry imaging. <i>Analyst</i> , 2021, 146, 2653-2663. | 3.5 | 16 |
| 17 | Insight into Details of the Photosynthetic Light Reactions and Selected Metabolic Changes in Tomato Seedlings Growing under Various Light Spectra. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11517. | 4.1 | 3 |
| 18 | Auxin Metabolite Profiling in Isolated and Intact Plant Nuclei. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12369. | 4.1 | 4 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Embryonal Masses Induced at High Temperatures in Aleppo Pine: Cytokinin Profile and Cytological Characterization. Forests, 2020, 11, 807. | 2.1 | 16 |
| 21 | Timing-dependent effects of salicylic acid treatment on phytohormonal changes, ROS regulation, and antioxidant defense in salinized barley (<i>Hordeum vulgare</i> L.). Scientific Reports, 2020, 10, 13886. | 3.3 | 37 |
| 22 | Jasmonate Signalling Contributes to Primary Root Inhibition Upon Oxygen Deficiency in Arabidopsis thaliana. Plants, 2020, 9, 1046. | 3.5 | 23 |
| 23 | 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 |
| 24 | A role for the auxin precursor anthranilic acid in root gravitropism via regulation of PIN1 and PIN2 protein polarity and relocalisation in Arabidopsis. New Phytologist, 2019, 223, 1420-1432. | 7.3 | 12 |
| 25 | Endogenous Hypoxia in Lateral Root Primordia Controls Root Architecture by Antagonizing Auxin Signaling in Arabidopsis. Molecular Plant, 2019, 12, 538-551. | 8.3 | 105 |
| 26 | Ultra-rapid auxin metabolite profiling for high-throughput mutant screening in Arabidopsis. Journal of Experimental Botany, 2018, 69, 2569-2579. | 4.8 | 60 |
| 27 | Deciphering the growth pattern and phytohormonal content in Saskatoon berry (<i>Amelanchier</i>) Tj ETQq1 1 0.784314 4.48 BT / Overlock 10 | | |
| 28 | Short-term salt stress in Brassica rapa seedlings causes alterations in auxin metabolism. Plant Physiology and Biochemistry, 2018, 125, 74-84. | 5.8 | 42 |
| 29 | Organ-specific phytohormone synthesis in two <i>Geranium</i> species with antithetical responses to far-red light enrichment. Plant Direct, 2018, 2, e00066. | 1.9 | 10 |
| 30 | Maternal auxin supply contributes to early embryo patterning in Arabidopsis. Nature Plants, 2018, 4, 548-553. | 9.3 | 123 |
| 31 | New insights into auxin metabolism in Bradyrhizobium japonicum. Research in Microbiology, 2018, 169, 313-323. | 2.1 | 31 |
| 32 | Production and Role of Hormones During Interaction of Fusarium Species With Maize (<i>Zea mays</i> L.) Seedlings. Frontiers in Plant Science, 2018, 9, 1936. | 3.6 | 30 |
| 33 | Physiological and Biochemical Responses of Merwillia 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 |
| 34 | The PLETHORA Gene Regulatory Network Guides Growth and Cell Differentiation in Arabidopsis Roots. Plant Cell, 2016, 28, 2937-2951. | 6.6 | 127 |
| 35 | Comparative Omics of the <i>Fusarium fujikuroi</i> Species Complex Highlights Differences in Genetic Potential and Metabolite Synthesis. Genome Biology and Evolution, 2016, 8, 3574-3599. | 2.5 | 124 |
| 36 | Cytokinin, auxin and physiological polarity in the aquatic carnivorous plants <i>Aldrovanda vesiculosa</i> and <i>Utricularia australis</i> . Annals of Botany, 2016, 117, 1037-1044. | 2.9 | 10 |

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|----|--|-----|-----------|
| 37 | Auxin-cytokinin interaction and variations in their metabolic products in the regulation of organogenesis in two <i>Eucomis</i> species. <i>New Biotechnology</i> , 2016, 33, 883-890. | 4.4 | 16 |
| 38 | Dioxygenase-encoding <i>AtDAO1</i> gene controls IAA oxidation and homeostasis in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11016-11021. | 7.1 | 162 |
| 39 | Cytokinins Are Initial Targets of Light in the Control of Bud Outgrowth. <i>Plant Physiology</i> , 2016, 172, 489-509. | 4.8 | 82 |
| 40 | Dynamic regulation of auxin oxidase and conjugating enzymes <i>AtDAO1</i> and <i>GH3</i> modulates auxin homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11022-11027. | 7.1 | 119 |
| 41 | Quantitative Auxin Metabolite Profiling Using Stable Isotope Dilution UHPLC-MS/MS. <i>Current Protocols in Plant Biology</i> , 2016, 1, 419-430. | 2.8 | 6 |
| 42 | Hormonal and epigenetic regulation during embryogenic tissue habituation in <i>Cucurbita pepo</i> L.. <i>Plant Cell Reports</i> , 2016, 35, 77-89. | 5.6 | 11 |
| 43 | Physiological role of phenolic biostimulants isolated from brown seaweed <i>Ecklonia maxima</i> on plant growth and development. <i>Planta</i> , 2015, 241, 1313-1324. | 3.2 | 51 |
| 44 | Ammonium regulates embryogenic potential in <i>Cucurbita pepo</i> through pH-mediated changes in endogenous auxin and abscisic acid. <i>Plant Cell, Tissue and Organ Culture</i> , 2015, 122, 89-100. | 2.3 | 28 |
| 45 | A Conserved Cytochrome P450 Evolved in Seed Plants Regulates Flower Maturation. <i>Molecular Plant</i> , 2015, 8, 1751-1765. | 8.3 | 36 |
| 46 | Development of the Poplar <i>Laccaria bicolor</i> Ectomycorrhiza Modifies Root Auxin Metabolism, Signaling, and Response. <i>Plant Physiology</i> , 2015, 169, 890-902. | 4.8 | 70 |
| 47 | Dissecting the role of two cytokinin analogues (INCYDE and PI-55) on in vitro organogenesis, phytohormone accumulation, phytochemical content and antioxidant activity. <i>Plant Science</i> , 2015, 238, 81-94. | 3.6 | 19 |
| 48 | Evidence of phytohormones and phenolic acids variability in garden-waste-derived vermicompost leachate, a well-known plant growth stimulant. <i>Plant Growth Regulation</i> , 2015, 75, 483-492. | 3.4 | 58 |
| 49 | Endogenous Abscisic Acid Promotes Hypocotyl Growth and Affects Endoreduplication during Dark-Induced Growth in Tomato (<i>Solanum lycopersicum</i> L.). <i>PLoS ONE</i> , 2015, 10, e0117793. | 2.5 | 21 |
| 50 | ADP1 Affects Plant Architecture by Regulating Local Auxin Biosynthesis. <i>PLoS Genetics</i> , 2014, 10, e1003954. | 3.5 | 47 |
| 51 | Identification and Profiling of Auxin and Auxin Metabolites. , 2014, , 39-60. | | 6 |
| 52 | <i>Arabidopsis gulliver1/superroot2</i> identifies a metabolic basis for auxin and brassinosteroid synergy. <i>Plant Journal</i> , 2014, 80, 797-808. | 5.7 | 35 |
| 53 | Regulation of Auxin Homeostasis and Gradients in <i>Arabidopsis</i> Roots through the Formation of the Indole-3-Acetic Acid Catabolite 2-Oxindole-3-Acetic Acid. <i>Plant Cell</i> , 2013, 25, 3858-3870. | 6.6 | 131 |
| 54 | Soluble Carbohydrates Regulate Auxin Biosynthesis via PIF Proteins in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 24, 4907-4916. | 6.6 | 205 |

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|----|--|------|-----------|
| 55 | Maize AUXIN-BINDING PROTEIN 1 and AUXIN-BINDING PROTEIN 4 impact on leaf growth, elongation, and seedling responsiveness to auxin and light. <i>Botany</i> , 2012, 90, 990-1006. | 1.0 | 7 |
| 56 | 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 |
| 57 | A novel putative auxin carrier family regulates intracellular auxin homeostasis in plants. <i>Nature</i> , 2012, 485, 119-122. | 27.8 | 345 |
| 58 | Endogenous Auxin Profile in the Christmas Rose (<i>Helleborus niger</i> L.) Flower and Fruit: Free and Amide Conjugated IAA. <i>Journal of Plant Growth Regulation</i> , 2012, 31, 63-78. | 5.1 | 11 |
| 59 | ENDOGENOUS CYTOKININS, AUXINS, AND ABSCISIC ACID IN RED ALGAE FROM BRAZIL ¹ . <i>Journal of Phycology</i> , 2010, 46, 1198-1205. | 2.3 | 78 |
| 60 | 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 |
| 61 | Isolation of novel indole-3-acetic acid conjugates by immunoaffinity extraction. <i>Talanta</i> , 2009, 80, 651-655. | 5.5 | 86 |
| 62 | Hormonal and cell division analyses in <i>Watsonia lepida</i> seedlings. <i>Journal of Plant Physiology</i> , 2009, 166, 1497-1507. | 3.5 | 11 |
| 63 | Endogenous cytokinins, auxins and abscisic acid in <i>Ulva fasciata</i> (Chlorophyta) and <i>Dictyota humifusa</i> (Phaeophyta): towards understanding their biosynthesis and homeostasis. <i>European Journal of Phycology</i> , 2009, 44, 231-240. | 2.0 | 57 |
| 64 | New Insights Into the Activity of Apple Dihydrochalcone Phloretin: Disturbance of Auxin Homeostasis as Physiological Basis of Phloretin Phytotoxic Action. <i>Frontiers in Plant Science</i> , 0, 13, . | 3.6 | 5 |