

Dominique Van Der Straeten

List of Publications by Year in descending order

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265
papers

18,110
citations

7551

77
h-index

16605

123
g-index

288
all docs

288
docs citations

288
times ranked

15726
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Integration of Plant Responses to Environmentally Activated Phytohormonal Signals. <i>Science</i> , 2006, 311, 91-94. | 6.0 | 1,304 |
| 2 | Ethylene Upregulates Auxin Biosynthesis in <i>Arabidopsis</i> Seedlings to Enhance Inhibition of Root Cell Elongation. <i>Plant Cell</i> , 2007, 19, 2186-2196. | 3.1 | 536 |
| 3 | The Chara Genome: Secondary Complexity and Implications for Plant Terrestrialization. <i>Cell</i> , 2018, 174, 448-464.e24. | 13.5 | 420 |
| 4 | Ethylene Regulates Arabidopsis Development via the Modulation of DELLA Protein Growth Repressor Function. <i>Plant Cell</i> , 2003, 15, 2816-2825. | 3.1 | 391 |
| 5 | Cryptochrome Blue Light Photoreceptors Are Activated through Interconversion of Flavin Redox States. <i>Journal of Biological Chemistry</i> , 2007, 282, 9383-9391. | 1.6 | 349 |
| 6 | The plant stress hormone ethylene controls floral transition via DELLA-dependent regulation of floral meristem-identity genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6484-6489. | 3.3 | 334 |
| 7 | Imaging techniques and the early detection of plant stress. <i>Trends in Plant Science</i> , 2000, 5, 495-501. | 4.3 | 305 |
| 8 | Role of PIN-mediated auxin efflux in apical hook development of <i>Arabidopsis thaliana</i> . <i>Development (Cambridge)</i> , 2010, 137, 607-617. | 1.2 | 297 |
| 9 | Ethylene can stimulate Arabidopsis hypocotyl elongation in the light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 2756-2761. | 3.3 | 284 |
| 10 | Folate fortification of rice by metabolic engineering. <i>Nature Biotechnology</i> , 2007, 25, 1277-1279. | 9.4 | 276 |
| 11 | The transcription factor ATAF2 represses the expression of pathogenesis-related genes in Arabidopsis. <i>Plant Journal</i> , 2005, 43, 745-757. | 2.8 | 273 |
| 12 | ERF115 Controls Root Quiescent Center Cell Division and Stem Cell Replenishment. <i>Science</i> , 2013, 342, 860-863. | 6.0 | 263 |
| 13 | Molecular and Physiological Responses to Abscisic Acid and Salts in Roots of Salt-Sensitive and Salt-Tolerant Indica Rice Varieties. <i>Plant Physiology</i> , 1995, 107, 177-186. | 2.3 | 241 |
| 14 | The auxin influx carriers AUX1 and LAX3 are involved in auxin-ethylene interactions during apical hook development in <i>Arabidopsis thaliana</i> seedlings. <i>Development (Cambridge)</i> , 2010, 137, 597-606. | 1.2 | 226 |
| 15 | Thermal and Chlorophyll-Fluorescence Imaging Distinguish Plant-Pathogen Interactions at an Early Stage. <i>Plant and Cell Physiology</i> , 2004, 45, 887-896. | 1.5 | 225 |
| 16 | Reaching out of the shade. <i>Current Opinion in Plant Biology</i> , 2005, 8, 462-468. | 3.5 | 222 |
| 17 | Monitoring and screening plant populations with combined thermal and chlorophyll fluorescence imaging. <i>Journal of Experimental Botany</i> , 2007, 58, 773-784. | 2.4 | 215 |
| 18 | 1-aminocyclopropane-1-carboxylic acid (ACC) in plants: more than just the precursor of ethylene!. <i>Frontiers in Plant Science</i> , 2014, 5, 640. | 1.7 | 213 |

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|----|---|-----|-----------|
| 19 | Cloning and sequence of two different cDNAs encoding 1-aminocyclopropane-1-carboxylate synthase in tomato.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 4859-4863. | 3.3 | 209 |
| 20 | In the Early Response of Arabidopsis Roots to Ethylene, Cell Elongation Is Up- and Down-Regulated and Uncoupled from Differentiation. Plant Physiology, 2001, 125, 519-522. | 2.3 | 175 |
| 21 | HY5 is a point of convergence between cryptochrome and cytokinin signalling pathways in Arabidopsis thaliana. Plant Journal, 2007, 49, 428-441. | 2.8 | 172 |
| 22 | Presymptomatic visualization of plant-virus interactions by thermography. Nature Biotechnology, 1999, 17, 813-816. | 9.4 | 167 |
| 23 | Seeing is believing: imaging techniques to monitor plant health. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2001, 1519, 153-166. | 2.4 | 167 |
| 24 | Ethylene and Auxin Control the Arabidopsis Response to Decreased Light Intensity. Plant Physiology, 2003, 133, 517-527. | 2.3 | 166 |
| 25 | Growth and stomata development of Arabidopsis hypocotyls are controlled by gibberellins and modulated by ethylene and auxins. Plant Journal, 2003, 33, 989-1000. | 2.8 | 164 |
| 26 | Ethylene and Hormonal Cross Talk in Vegetative Growth and Development. Plant Physiology, 2015, 169, 61-72. | 2.3 | 162 |
| 27 | Plant enolase: gene structure, expression, and evolution.. Plant Cell, 1991, 3, 719-735. | 3.1 | 154 |
| 28 | Cadmium-induced ethylene production and responses in Arabidopsis thaliana rely on ACS2 and ACS6 gene expression. BMC Plant Biology, 2014, 14, 214. | 1.6 | 152 |
| 29 | Circadian Rhythms of Ethylene Emission in Arabidopsis. Plant Physiology, 2004, 136, 3751-3761. | 2.3 | 147 |
| 30 | Auxin, Ethylene and Brassinosteroids: Tripartite Control of Growth in the Arabidopsis Hypocotyl. Plant and Cell Physiology, 2005, 46, 827-836. | 1.5 | 146 |
| 31 | Folates in Plants: Research Advances and Progress in Crop Biofortification. Frontiers in Chemistry, 2017, 5, 21. | 1.8 | 141 |
| 32 | Improving folate (vitamin B9) stability in biofortified rice through metabolic engineering. Nature Biotechnology, 2015, 33, 1076-1078. | 9.4 | 140 |
| 33 | Of light and length: Regulation of hypocotyl growth in Arabidopsis. BioEssays, 2005, 27, 275-284. | 1.2 | 139 |
| 34 | Multispectral fluorescence and reflectance imaging at the leaf level and its possible applications. Journal of Experimental Botany, 2006, 58, 807-814. | 2.4 | 137 |
| 35 | Ethylene-mediated enhancement of apical hook formation in etiolated Arabidopsis thaliana seedlings is gibberellin dependent. Plant Journal, 2004, 37, 505-516. | 2.8 | 134 |
| 36 | Insights into the Evolution of Multicellularity from the Sea Lettuce Genome. Current Biology, 2018, 28, 2921-2933.e5. | 1.8 | 134 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A Hormone and Proteome Approach to Picturing the Initial Metabolic Events During Plasmodiophora brassicae Infection on Arabidopsis. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 1431-1443. | 1.4 | 133 |
| 38 | The plant hormone ethylene restricts <i>Arabidopsis</i> growth via the epidermis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4130-E4139. | 3.3 | 127 |
| 39 | A Comparative Molecular-Physiological Study of Submergence Response in Lowland and Deepwater Rice. <i>Plant Physiology</i> , 2001, 125, 955-968. | 2.3 | 124 |
| 40 | Ethylene in vegetative development: a tale with a riddle. <i>New Phytologist</i> , 2012, 194, 895-909. | 3.5 | 124 |
| 41 | Ethylene and vegetative development. <i>Physiologia Plantarum</i> , 1997, 100, 593-605. | 2.6 | 123 |
| 42 | Rosette Tracker: An Open Source Image Analysis Tool for Automatic Quantification of Genotype Effects. <i>Plant Physiology</i> , 2012, 160, 1149-1159. | 2.3 | 123 |
| 43 | The Arabidopsis 1-Aminocyclopropane-1-Carboxylate Synthase Gene 1 Is Expressed during Early Development. <i>Plant Cell</i> , 1993, 5, 897-911. | 3.1 | 122 |
| 44 | Transcriptional profiling by cDNA-AFLP and microarray analysis reveals novel insights into the early response to ethylene in Arabidopsis. <i>Plant Journal</i> , 2004, 39, 537-559. | 2.8 | 122 |
| 45 | Spatial and temporal analysis of the local response to wounding. <i>Plant Molecular Biology</i> , 2004, 55, 165-181. | 2.0 | 120 |
| 46 | Engineering Complex Metabolic Pathways in Plants. <i>Annual Review of Plant Biology</i> , 2014, 65, 187-223. | 8.6 | 117 |
| 47 | Exploiting DELLA Signaling in Cereals. <i>Trends in Plant Science</i> , 2017, 22, 880-893. | 4.3 | 115 |
| 48 | Folates and Folic Acid: From Fundamental Research Toward Sustainable Health. <i>Critical Reviews in Plant Sciences</i> , 2010, 29, 14-35. | 2.7 | 114 |
| 49 | Hormone-controlled UV-B responses in plants. <i>Journal of Experimental Botany</i> , 2016, 67, 4469-4482. | 2.4 | 114 |
| 50 | SLO2, a mitochondrial pentatricopeptide repeat protein affecting several RNA editing sites, is required for energy metabolism. <i>Plant Journal</i> , 2012, 71, 836-849. | 2.8 | 113 |
| 51 | Folate biofortification in food plants. <i>Trends in Plant Science</i> , 2008, 13, 28-35. | 4.3 | 112 |
| 52 | Plant Elongator regulates auxin-related genes during RNA polymerase II transcription elongation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1678-1683. | 3.3 | 112 |
| 53 | Regulation of cell length in the Arabidopsis thaliana root by the ethylene precursor 1-aminocyclopropane-1-carboxylic acid: a matter of apoplastic reactions. <i>New Phytologist</i> , 2005, 168, 541-550. | 3.5 | 110 |
| 54 | Folates in plants: biosynthesis, distribution, and enhancement. <i>Physiologia Plantarum</i> , 2006, 126, 330-342. | 2.6 | 110 |

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|----|--|-----|-----------|
| 55 | Xyloglucan endotransglucosylase/hydrolase (XTH) overexpression affects growth and cell wall mechanics in etiolated <i>Arabidopsis</i> hypocotyls. <i>Journal of Experimental Botany</i> , 2013, 64, 2481-2497. | 2.4 | 108 |
| 56 | Multiplying the efficiency and impact of biofortification through metabolic engineering. <i>Nature Communications</i> , 2020, 11, 5203. | 5.8 | 106 |
| 57 | Accumulation and Transport of 1-Aminocyclopropane-1-Carboxylic Acid (ACC) in Plants: Current Status, Considerations for Future Research and Agronomic Applications. <i>Frontiers in Plant Science</i> , 2017, 8, 38. | 1.7 | 105 |
| 58 | pH stability of individual folates during critical sample preparation steps in prevision of the analysis of plant folates. <i>Phytochemical Analysis</i> , 2007, 18, 496-508. | 1.2 | 100 |
| 59 | Cloning, genetic mapping, and expression analysis of an <i>Arabidopsis thaliana</i> gene that encodes 1-aminocyclopropane-1-carboxylate synthase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 9969-9973. | 3.3 | 99 |
| 60 | Willingness-to-accept and purchase genetically modified rice with high folate content in Shanxi Province, China. <i>Appetite</i> , 2010, 54, 118-125. | 1.8 | 99 |
| 61 | The <i>Arabidopsis thaliana</i> RNA Editing Factor SLO2, which Affects the Mitochondrial Electron Transport Chain, Participates in Multiple Stress and Hormone Responses. <i>Molecular Plant</i> , 2014, 7, 290-310. | 3.9 | 99 |
| 62 | Present and future of folate biofortification of crop plants. <i>Journal of Experimental Botany</i> , 2014, 65, 895-906. | 2.4 | 98 |
| 63 | The <i>Arabidopsis</i> Mutant <i>alh1</i> Illustrates a Cross Talk between Ethylene and Auxin. <i>Plant Physiology</i> , 2003, 131, 1228-1238. | 2.3 | 95 |
| 64 | Ethylene induced plant stress tolerance by <i>Enterobacter</i> sp. SA187 is mediated by 2-oxo-4-methylthiobutyric acid production. <i>PLoS Genetics</i> , 2018, 14, e1007273. | 1.5 | 95 |
| 65 | Identification of NPR1-Dependent and Independent Genes Early Induced by Salicylic Acid Treatment in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2005, 59, 927-944. | 2.0 | 93 |
| 66 | Evolutionary conservation of plant gibberellin signalling pathway components. <i>BMC Plant Biology</i> , 2007, 7, 65. | 1.6 | 93 |
| 67 | Hierarchy of hormone action controlling apical hook development in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2011, 67, 622-634. | 2.8 | 92 |
| 68 | Potential impact and cost-effectiveness of multi-biofortified rice in China. <i>New Biotechnology</i> , 2012, 29, 432-442. | 2.4 | 92 |
| 69 | Multiple PPR protein interactions are involved in the RNA editing system in <i>Arabidopsis</i> mitochondria and plastids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8883-8888. | 3.3 | 91 |
| 70 | An abscisic-acid- and salt-stress-responsive rice cDNA from a novel plant gene family. <i>Planta</i> , 1997, 202, 443-454. | 1.6 | 90 |
| 71 | Multi-sensor plant imaging: Towards the development of a stress-catalogue. <i>Biotechnology Journal</i> , 2009, 4, 1152-1167. | 1.8 | 90 |
| 72 | Multicolor fluorescence imaging for early detection of the hypersensitive reaction to tobacco mosaic virus. <i>Journal of Plant Physiology</i> , 2007, 164, 253-262. | 1.6 | 88 |

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|----|---|-----|-----------|
| 73 | Apoplasmic Alkalinization Is Instrumental for the Inhibition of Cell Elongation in the Arabidopsis Root by the Ethylene Precursor 1-Aminocyclopropane-1-Carboxylic Acid. <i>Plant Physiology</i> , 2011, 155, 2049-2055. | 2.3 | 88 |
| 74 | Regulation of Submergence-induced Enhanced Shoot Elongation in <i>Oryza sativa</i> L.. <i>Annals of Botany</i> , 2003, 91, 263-270. | 1.4 | 86 |
| 75 | Tuning the pores: towards engineering plants for improved water use efficiency. <i>Trends in Biotechnology</i> , 2005, 23, 308-315. | 4.9 | 86 |
| 76 | Status and market potential of transgenic biofortified crops. <i>Nature Biotechnology</i> , 2015, 33, 25-29. | 9.4 | 86 |
| 77 | Thermographic visualization of cell death in tobacco and Arabidopsis. <i>Plant, Cell and Environment</i> , 2001, 24, 15-25. | 2.8 | 84 |
| 78 | Folate biofortification in food crops. <i>Current Opinion in Biotechnology</i> , 2017, 44, 202-211. | 3.3 | 78 |
| 79 | Genetic and Physiological Analysis of a New Locus in Arabidopsis That Confers Resistance to 1-Aminocyclopropane-1-Carboxylic Acid and Ethylene and Specifically Affects the Ethylene Signal Transduction Pathway. <i>Plant Physiology</i> , 1993, 102, 401-408. | 2.3 | 74 |
| 80 | Ethylene: Fine-tuning plant growth and development by stimulation and inhibition of elongation. <i>Plant Science</i> , 2008, 175, 59-70. | 1.7 | 74 |
| 81 | Cell Elongation and Microtubule Behavior in the Arabidopsis Hypocotyl: Responses to Ethylene and Auxin. <i>Journal of Plant Growth Regulation</i> , 2005, 24, 166-178. | 2.8 | 73 |
| 82 | Light strongly promotes gene transfer from <i>Agrobacterium tumefaciens</i> to plant cells. <i>Planta</i> , 2003, 216, 580-586. | 1.6 | 70 |
| 83 | Regulation of seedling growth by ethylene and the ethylene-auxin crosstalk. <i>Planta</i> , 2017, 245, 467-489. | 1.6 | 70 |
| 84 | Photoreceptor-Mediated Bending towards UV-B in Arabidopsis. <i>Molecular Plant</i> , 2014, 7, 1041-1052. | 3.9 | 68 |
| 85 | Ethylene levels are regulated by a plant encoded 1-aminocyclopropane-1-carboxylic acid deaminase. <i>Physiologia Plantarum</i> , 2009, 136, 94-109. | 2.6 | 67 |
| 86 | Ethylene Biosynthesis and Signaling: An Overview. <i>Vitamins and Hormones</i> , 2005, 72, 399-430. | 0.7 | 64 |
| 87 | Ethylene-induced Arabidopsis hypocotyl elongation is dependent on but not mediated by gibberellins. <i>Journal of Experimental Botany</i> , 2007, 58, 4269-4281. | 2.4 | 64 |
| 88 | Dihydrofolate Reductase/Thymidylate Synthase Fine-Tunes the Folate Status and Controls Redox Homeostasis in Plants. <i>Plant Cell</i> , 2017, 29, 2831-2853. | 3.1 | 64 |
| 89 | To grow or not to grow: what can we learn on ethylene-gibberellin cross-talk by in silico gene expression analysis?. <i>Journal of Experimental Botany</i> , 2007, 59, 1-16. | 2.4 | 63 |
| 90 | Chlorophyll fluorescence imaging for disease-resistance screening of sugar beet. <i>Plant Cell, Tissue and Organ Culture</i> , 2007, 91, 97-106. | 1.2 | 61 |

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|-----|---|-----|-----------|
| 91 | Ultraviolet Radiation From a Plant Perspective: The Plant-Microorganism Context. <i>Frontiers in Plant Science</i> , 2020, 11, 597642. | 1.7 | 60 |
| 92 | Ethylene signalling is mediating the early cadmium-induced oxidative challenge in <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2015, 239, 137-146. | 1.7 | 59 |
| 93 | The Ethylene Precursor ACC Affects Early Vegetative Development Independently of Ethylene Signaling. <i>Frontiers in Plant Science</i> , 2019, 10, 1591. | 1.7 | 59 |
| 94 | Constitutively Active <i>Arabidopsis</i> MAP Kinase 3 Triggers Defense Responses Involving Salicylic Acid and SUMM2 Resistance Protein. <i>Plant Physiology</i> , 2017, 174, 1238-1249. | 2.3 | 57 |
| 95 | Ultra-performance liquid chromatography-tandem mass spectrometry (UPLC-MS/MS) for the sensitive determination of folates in rice. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 509-513. | 1.2 | 56 |
| 96 | Brassinosteroid control of shoot gravitropism interacts with ethylene and depends on auxin signaling components. <i>American Journal of Botany</i> , 2013, 100, 215-225. | 0.8 | 56 |
| 97 | Optimisation and validation of a liquid chromatography-tandem mass spectrometry method for folates in rice. <i>Journal of Chromatography A</i> , 2008, 1215, 125-132. | 1.8 | 54 |
| 98 | Molecular and Pathotype Analysis of the Rice Blast Fungus in North Vietnam. <i>European Journal of Plant Pathology</i> , 2006, 114, 381-396. | 0.8 | 53 |
| 99 | Regulation of One-Carbon Metabolism in <i>Arabidopsis</i> : The N-Terminal Regulatory Domain of Cystathionine Synthase Is Cleaved in Response to Folate Starvation. <i>Plant Physiology</i> , 2007, 145, 491-503. | 2.3 | 53 |
| 100 | Enhancing pterin and para-aminobenzoate content is not sufficient to successfully biofortify potato tubers and <i>Arabidopsis thaliana</i> plants with folate. <i>Journal of Experimental Botany</i> , 2013, 64, 3899-3909. | 2.4 | 53 |
| 101 | Wounding stress causes rapid increase in concentration of the naturally occurring 2,3-isomers of cyclic guanosine- and cyclic adenosine monophosphate (cGMP and cAMP) in plant tissues. <i>Phytochemistry</i> , 2014, 103, 59-66. | 1.4 | 53 |
| 102 | A Model of Differential Growth-Guided Apical Hook Formation in Plants. <i>Plant Cell</i> , 2016, 28, 2464-2477. | 3.1 | 53 |
| 103 | Unravelling the functions of biogenic volatiles in boreal and temperate forest ecosystems. <i>European Journal of Forest Research</i> , 2019, 138, 763-787. | 1.1 | 53 |
| 104 | Salicylic acid enhances the activity of the alternative pathway of respiration in tobacco leaves and induces thermogenicity. <i>Planta</i> , 1995, 196, 412-419. | 1.6 | 52 |
| 105 | Investigation of the extraction behavior of the main monoglutamate folates from spinach by liquid chromatography-electrospray ionization tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2005, 1078, 59-66. | 1.8 | 52 |
| 106 | Robotized Thermal and Chlorophyll Fluorescence Imaging of Pepper Mild Mottle Virus Infection in <i>Nicotiana benthamiana</i> . <i>Plant and Cell Physiology</i> , 2006, 47, 1323-1336. | 1.5 | 52 |
| 107 | Early detection of nutrient and biotic stress in <i>Phaseolus vulgaris</i> . <i>International Journal of Remote Sensing</i> , 2007, 28, 3479-3492. | 1.3 | 52 |
| 108 | Transcriptome Profiling of the Green Alga <i>Spirogyra pratensis</i> (Charophyta) Suggests an Ancestral Role for Ethylene in Cell Wall Metabolism, Photosynthesis, and Abiotic Stress Responses. <i>Plant Physiology</i> , 2016, 172, 533-545. | 2.3 | 52 |

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|-----|---|-----|-----------|
| 109 | N-terminal truncated RHT-1 proteins generated by translational reinitiation cause semi-dwarfing of wheat Green Revolution alleles. <i>Molecular Plant</i> , 2021, 14, 679-687. | 3.9 | 52 |
| 110 | C1 metabolism and chlorophyll synthesis: the Mg δ protoporphyrin IX methyltransferase activity is dependent on the folate status. <i>New Phytologist</i> , 2009, 182, 137-145. | 3.5 | 51 |
| 111 | Folate Biofortification of Potato by Tuber-Specific Expression of Four Folate Biosynthesis Genes. <i>Molecular Plant</i> , 2018, 11, 175-188. | 3.9 | 49 |
| 112 | Health impact in China of folate-biofortified rice. <i>Nature Biotechnology</i> , 2010, 28, 554-556. | 9.4 | 47 |
| 113 | Characterization of three members of the ACC synthase gene family in <i>Solanum tuberosum</i> L.. <i>Molecular Genetics and Genomics</i> , 1995, 246, 496-508. | 2.4 | 46 |
| 114 | Folate enhancement in staple crops by metabolic engineering. <i>Trends in Food Science and Technology</i> , 2005, 16, 271-281. | 7.8 | 42 |
| 115 | Shaping the shoot: a circuitry that integrates multiple signals. <i>Trends in Plant Science</i> , 2004, 9, 499-506. | 4.3 | 41 |
| 116 | A Genome-Wide and Metabolic Analysis Determined the Adaptive Response of Arabidopsis Cells to Folate Depletion Induced by Methotrexate. <i>Plant Physiology</i> , 2008, 148, 2083-2095. | 2.3 | 41 |
| 117 | Ethylene biosynthesis is involved in the early oxidative challenge induced by moderate Cd exposure in <i>Arabidopsis thaliana</i> . <i>Environmental and Experimental Botany</i> , 2015, 117, 1-11. | 2.0 | 41 |
| 118 | Toward Eradication of B-Vitamin Deficiencies: Considerations for Crop Biofortification. <i>Frontiers in Plant Science</i> , 2018, 9, 443. | 1.7 | 41 |
| 119 | A Group of Chromosomal Proteins Is Specifically Released by Spermine and Loses DNA-Binding Activity upon Phosphorylation. <i>Plant Physiology</i> , 1994, 106, 559-566. | 2.3 | 40 |
| 120 | An ultraviolet B condition that affects growth and defense in Arabidopsis. <i>Plant Science</i> , 2018, 268, 54-63. | 1.7 | 40 |
| 121 | Change in Auxin and Cytokinin Levels Coincides with Altered Expression of Branching Genes during Axillary Bud Outgrowth in <i>Chrysanthemum</i> . <i>PLoS ONE</i> , 2016, 11, e0161732. | 1.1 | 39 |
| 122 | The Arabidopsis 1-Aminocyclopropane-1-Carboxylate Synthase Gene 1 Is Expressed during Early Development. <i>Plant Cell</i> , 1993, 5, 897. | 3.1 | 38 |
| 123 | ALTERNATIVE OXIDASE1a modulates the oxidative challenge during moderate Cd exposure in <i>Arabidopsis thaliana</i> leaves. <i>Journal of Experimental Botany</i> , 2015, 66, 2967-2977. | 2.4 | 38 |
| 124 | Metabolic engineering of micronutrients in crop plants. <i>Annals of the New York Academy of Sciences</i> , 2017, 1390, 59-73. | 1.8 | 38 |
| 125 | A Method for Fast and Pure DNA Elution from Agarose Gels by Centrifugal Filtration. <i>Nature Biotechnology</i> , 1985, 3, 1014-1016. | 9.4 | 37 |
| 126 | Tissue Localization of a Submergence-Induced 1-Aminocyclopropane-1-Carboxylic Acid Synthase in Rice. <i>Plant Physiology</i> , 2002, 129, 72-84. | 2.3 | 37 |

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|-----|--|-----|-----------|
| 127 | Evaluation of automated sample preparation, retention time locked gas chromatography-mass spectrometry and data analysis methods for the metabolomic study of Arabidopsis species. <i>Journal of Chromatography A</i> , 2011, 1218, 3247-3254. | 1.8 | 37 |
| 128 | Cytosolic Hydroxymethylidihydropterin Pyrophosphokinase/Dihydropteroate Synthase from <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 10749-10761. | 1.6 | 36 |
| 129 | Research goals for folate and related B vitamin in Europe. <i>European Journal of Clinical Nutrition</i> , 2006, 60, 287-294. | 1.3 | 35 |
| 130 | Strategies of seedlings to overcome their sessile nature: auxin in mobility control. <i>Frontiers in Plant Science</i> , 2015, 6, 218. | 1.7 | 35 |
| 131 | Ultraviolet-B radiation stimulates downward leaf curling in <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2015, 93, 9-17. | 2.8 | 35 |
| 132 | Differential UVR8 Signal across the Stem Controls UV-B-Induced Inflorescence Phototropism. <i>Plant Cell</i> , 2019, 31, 2070-2088. | 3.1 | 35 |
| 133 | Evolution of folate biosynthesis and metabolism across algae and land plant lineages. <i>Scientific Reports</i> , 2019, 9, 5731. | 1.6 | 35 |
| 134 | Rapid induction of a novel ACC synthase gene in deepwater rice seedlings upon complete submergence. <i>Euphytica</i> , 2001, 121, 137-143. | 0.6 | 34 |
| 135 | Assessment of genetic diversity in <i>Tectona grandis</i> using amplified fragment length polymorphism markers. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1017-1022. | 0.8 | 34 |
| 136 | The Role of Brassinosteroids in Shoot Gravitropism. <i>Plant Physiology</i> , 2011, 156, 1331-1336. | 2.3 | 34 |
| 137 | At the Crossroads of Survival and Death: The Reactive Oxygen Species-Ethylene-Sugar Triad and the Unfolded Protein Response. <i>Trends in Plant Science</i> , 2021, 26, 338-351. | 4.3 | 34 |
| 138 | The trihelix DNA-binding motif in higher plants is not restricted to the transcription factors GT-1 and GT-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 3318-3322. | 3.3 | 33 |
| 139 | Robotized time-lapse imaging to assess in-planta uptake of phenylurea herbicides and their microbial degradation. <i>Physiologia Plantarum</i> , 2003, 118, 613-619. | 2.6 | 33 |
| 140 | Purification and partial characterization of 1-aminocyclopropane-1-carboxylate synthase from tomato pericarp. <i>FEBS Journal</i> , 1989, 182, 639-647. | 0.2 | 32 |
| 141 | Methods matter: a meta-regression on the determinants of willingness-to-pay studies on biofortified foods. <i>Annals of the New York Academy of Sciences</i> , 2017, 1390, 34-46. | 1.8 | 32 |
| 142 | From in planta Function to Vitamin-Rich Food Crops: The ACE of Biofortification. <i>Frontiers in Plant Science</i> , 2018, 9, 1862. | 1.7 | 32 |
| 143 | Dynamic infrared imaging analysis of apical hook development in <i>Arabidopsis</i> : the case of brassinosteroids. <i>New Phytologist</i> , 2014, 202, 1398-1411. | 3.5 | 31 |
| 144 | Tomato alcohol dehydrogenase. <i>FEBS Letters</i> , 1991, 295, 39-42. | 1.3 | 30 |

| # | ARTICLE | IF | CITATIONS |
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