

Bram Van de Poel

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,304
citations

257450

24
h-index

265206

42
g-index

47
all docs

47
docs citations

47
times ranked

2990
citing authors

#	ARTICLE	IF	CITATIONS
1	1-Aminocyclopropane-1-Carboxylic Acid Oxidase (ACO): The Enzyme That Makes the Plant Hormone Ethylene. <i>Frontiers in Plant Science</i> , 2019, 10, 695.	3.6	226
2	1-aminocyclopropane-1-carboxylic acid (ACC) in plants: more than just the precursor of ethylene!. <i>Frontiers in Plant Science</i> , 2014, 5, 640.	3.6	213
3	Conservation of ethylene as a plant hormone over 450 million years of evolution. <i>Nature Plants</i> , 2015, 1, 14004.	9.3	207
4	The regulation of ethylene biosynthesis: a complex multilevel control circuitry. <i>New Phytologist</i> , 2021, 229, 770-782.	7.3	166
5	Ethylene and Hormonal Cross Talk in Vegetative Growth and Development. <i>Plant Physiology</i> , 2015, 169, 61-72.	4.8	162
6	Metabolic characterization of tomato fruit during preharvest development, ripening, and postharvest shelf-life. <i>Postharvest Biology and Technology</i> , 2011, 62, 7-16.	6.0	136
7	Protocol: An updated integrated methodology for analysis of metabolites and enzyme activities of ethylene biosynthesis. <i>Plant Methods</i> , 2011, 7, 17.	4.3	123
8	Targeted Systems Biology Profiling of Tomato Fruit Reveals Coordination of the Yang Cycle and a Distinct Regulation of Ethylene Biosynthesis during Postclimacteric Ripening. <i>Plant Physiology</i> , 2012, 160, 1498-1514.	4.8	104
9	<sc>FERONIA</sc> receptor kinase interacts with <sc><i>S</i></sc>â€adenosylmethionine synthetase and suppresses <sc><i>S</i></sc>â€adenosylmethionine production and ethylene biosynthesis in <sc><i>A</i></sc><i>rabidopsis</i>. <i>Plant, Cell and Environment</i> , 2015, 38, 2566-2574.	5.7	98
10	<i>S</i>â€adenosylâ€methionine usage during climacteric ripening of tomato in relation to ethylene and polyamine biosynthesis and transmethylation capacity. <i>Physiologia Plantarum</i> , 2013, 148, 176-188.	5.2	61
11	Ethylene Exerts Species-Specific and Age-Dependent Control of Photosynthesis. <i>Plant Physiology</i> , 2018, 176, 2601-2612.	4.8	61
12	Age-Dependent Abiotic Stress Resilience in Plants. <i>Trends in Plant Science</i> , 2021, 26, 692-705.	8.8	60
13	Tissue specific analysis reveals a differential organization and regulation of both ethylene biosynthesis and E8 during climacteric ripening of tomato. <i>BMC Plant Biology</i> , 2014, 14, 11.	3.6	57
14	Sweet Immunity: Inulin Boosts Resistance of Lettuce (<i>Lactuca sativa</i>) against Grey Mold (<i>Botrytis</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	4.1	54
15	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.	4.8	52
16	Kinetic modeling of firmness breakdown in â€Braeburnâ€™ apples stored under different controlled atmosphere conditions. <i>Postharvest Biology and Technology</i> , 2012, 67, 68-74.	6.0	48
17	Comparative Transcriptomics and Metabolomics Reveal an Intricate Priming Mechanism Involved in PGPR-Mediated Salt Tolerance in Tomato. <i>Frontiers in Plant Science</i> , 2021, 12, 713984.	3.6	46
18	Influence of harvest time and 1-MCP application on postharvest ripening and ethylene biosynthesis of â€Jonagoldâ€™ apple. <i>Postharvest Biology and Technology</i> , 2012, 72, 11-19.	6.0	39

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19	Finding a Compatible Partner: Self-Incompatibility in European Pear (<i>Pyrus communis</i>); Molecular Control, Genetic Determination, and Impact on Fertilization and Fruit Set. <i>Frontiers in Plant Science</i> , 2019, 10, 407.	3.6	39
20	Ethylene Receptors, CTRs and EIN2 Target Protein Identification and Quantification Through Parallel Reaction Monitoring During Tomato Fruit Ripening. <i>Frontiers in Plant Science</i> , 2018, 9, 1626.	3.6	38
21	Transcription analysis of the ethylene receptor and CTR genes in tomato: The effects of on and off-vine ripening and 1-MCP. <i>Postharvest Biology and Technology</i> , 2018, 140, 67-75.	6.0	35
22	Detached ripening of non-climacteric strawberry impairs aroma profile and fruit quality. <i>Postharvest Biology and Technology</i> , 2014, 95, 70-80.	6.0	33
23	A transcriptomics-based kinetic model for ethylene biosynthesis in tomato (<i>Solanum lycopersicum</i>) fruit: development, validation and exploration of novel regulatory mechanisms. <i>New Phytologist</i> , 2014, 202, 952-963.	7.3	30
24	Something old, something new: Conservation of the ethylene precursor 1-amino-cyclopropane-1-carboxylic acid as a signaling molecule. <i>Current Opinion in Plant Biology</i> , 2022, 65, 102116.	7.1	28
25	Determination of pineapple (<i>Ananas comosus</i> , MD-2 hybrid cultivar) plant maturity, the efficiency of flowering induction agents and the use of activated carbon. <i>Scientia Horticulturae</i> , 2009, 120, 58-63.	3.6	25
26	Model-based classification of tomato fruit development and ripening related to physiological maturity. <i>Postharvest Biology and Technology</i> , 2012, 67, 59-67.	6.0	25
27	Determination of <i>S</i> -Adenosylmethionine in Fruits by Capillary Electrophoresis. <i>Phytochemical Analysis</i> , 2010, 21, 602-608.	2.4	23
28	A digital sensor to measure real-time leaf movements and detect abiotic stress in plants. <i>Plant Physiology</i> , 2021, 187, 1131-1148.	4.8	17
29	Expression and protein levels of ethylene receptors, CTRs and EIN2 during tomato fruit ripening as affected by 1- MCP. <i>Postharvest Biology and Technology</i> , 2021, 179, 111573.	6.0	14
30	The Role of Auxin-Ethylene Crosstalk in Orchestrating Primary Root Elongation in Sugar Beet. <i>Frontiers in Plant Science</i> , 2017, 8, 444.	3.6	13
31	Dynamic changes of the ethylene biosynthesis in 'Jonagold' apple. <i>Physiologia Plantarum</i> , 2014, 150, 161-173.	5.2	12
32	Ethylene is differentially regulated during sugar beet germination and affects early root growth in a dose-dependent manner. <i>Planta</i> , 2014, 240, 679-686.	3.2	9
33	Ethylene's fraternal twin steals the spotlight. <i>Nature Plants</i> , 2020, 6, 1309-1310.	9.3	8
34	Population Modeling Approach to Optimize Crop Harvest Strategy. The Case of Field Tomato. <i>Frontiers in Plant Science</i> , 2017, 8, 608.	3.6	7
35	The Effect of Low-Haze Diffuse Glass on Greenhouse Tomato and Bell Pepper Production and Light Distribution Properties. <i>Plants</i> , 2020, 9, 806.	3.5	7
36	Blue and far-red light control flowering time of woodland strawberry (<i>Fragaria vesca</i>) distinctively via CONSTANS (CO) and FLOWERING LOCUS T1 (FT1) in the background of sunlight mimicking radiation. <i>Environmental and Experimental Botany</i> , 2022, 198, 104866.	4.2	6

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37	A semi in vivo pollination technique to assess the level of gametophytic self-incompatibility and pollen tube growth in pear (<i>Pyrus communis</i> L.). <i>Plant Reproduction</i> , 2022, 35, 127-140.	2.2	5
38	Plant Ethylene Detection Using Laser-Based Photo-Acoustic Spectroscopy. <i>Methods in Molecular Biology</i> , 2017, 1573, 11-26.	0.9	4
39	An Evolutionary Perspective on the Plant Hormone Ethylene. , 2015, , 109-134.		4
40	Ethylene Insensitive 3-Like 2 is a <i>Brassicaceae</i> -specific transcriptional regulator involved in fine-tuning ethylene responses in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 4793-4805.	4.8	3
41	Abscisic acid inhibits germination and indirectly delays ethylene biosynthesis of <i>Beta vulgaris</i> . <i>Seed Science and Technology</i> , 2015, 43, 156-167.	1.4	2
42	Overview of Witloof Chicory (<i>Cichorium intybus</i> L.) Discolorations and Their Underlying Physiological and Biochemical Causes. <i>Frontiers in Plant Science</i> , 2022, 13, 843004.	3.6	2
43	Ethylene Signaling from the Endoplasmic Reticulum Membrane to the Nucleus. , 2015, , 93-108.		1
44	Is losing ethylene a losing game?. <i>Molecular Plant</i> , 2022, , .	8.3	1
45	Moving toward Light in Response to a Gas: A Novel Cyanobacterial Ethylene Receptor. <i>Plant Physiology</i> , 2016, 171, 2279-2279.	4.8	0