

# Christopher I Cazzonelli

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

3,174  
citations

236925

25  
h-index

161849

54  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3721  
citing authors

#	ARTICLE	IF	CITATIONS
1	Source to sink: regulation of carotenoid biosynthesis in plants. <i>Trends in Plant Science</i> , 2010, 15, 266-274.	8.8	732
2	Carotenoids in nature: insights from plants and beyond. <i>Functional Plant Biology</i> , 2011, 38, 833.	2.1	397
3	Regulation of Carotenoid Composition and Shoot Branching in <i>Arabidopsis</i> by a Chromatin Modifying Histone Methyltransferase, SDG8. <i>Plant Cell</i> , 2009, 21, 39-53.	6.6	207
4	An Uncharacterized Apocarotenoid-Derived Signal Generated in $\Psi$ -Carotene Desaturase Mutants Regulates Leaf Development and the Expression of Chloroplast and Nuclear Genes in <i>Arabidopsis</i> $\hat{A}$ . <i>Plant Cell</i> , 2014, 26, 2524-2537.	6.6	160
5	Periodic root branching in <i>Arabidopsis</i> requires synthesis of an uncharacterized carotenoid derivative. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1300-9.	7.1	139
6	A chloroplast retrograde signal, 3 $\hat{A}$ -phosphoadenosine 5 $\hat{A}$ -phosphate, acts as a secondary messenger in abscisic acid signaling in stomatal closure and germination. <i>ELife</i> , 2017, 6, .	6.0	132
7	Alternative splicing, activation of cryptic exons and amino acid substitutions in carotenoid biosynthetic genes are associated with lutein accumulation in wheat endosperm. <i>Functional and Integrative Genomics</i> , 2009, 9, 363-376.	3.5	118
8	The mitochondrial outer membrane $\langle \text{sc} \rangle$ AAA ATP $\langle \text{sc} \rangle$ ase At $\langle \text{sc} \rangle$ OM $\langle \text{sc} \rangle$ 66 affects cell death and pathogen resistance in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2014, 80, 709-727.	5.7	80
9	Transcriptional Control of SET DOMAIN GROUP 8 and CAROTENOID ISOMERASE during <i>Arabidopsis</i> Development. <i>Molecular Plant</i> , 2010, 3, 174-191.	8.3	65
10	Role of the <i>Arabidopsis</i> PIN6 Auxin Transporter in Auxin Homeostasis and Auxin-Mediated Development. <i>PLoS ONE</i> , 2013, 8, e70069.	2.5	65
11	Simulated Herbivory: The Key to Disentangling Plant Defence Responses. <i>Trends in Ecology and Evolution</i> , 2019, 34, 447-458.	8.7	64
12	Establishment of an <i>Arabidopsis</i> callus system to study the interrelations of biosynthesis, degradation and accumulation of carotenoids. <i>PLoS ONE</i> , 2018, 13, e0192158.	2.5	52
13	A cis-carotene derived apocarotenoid regulates etioplast and chloroplast development. <i>ELife</i> , 2020, 9, .	6.0	49
14	cis-carotene biosynthesis, evolution and regulation in plants: The emergence of novel signaling metabolites. <i>Archives of Biochemistry and Biophysics</i> , 2018, 654, 172-184.	3.0	46
15	A chromatin modifying enzyme, SDG8, is involved in morphological, gene expression, and epigenetic responses to mechanical stimulation. <i>Frontiers in Plant Science</i> , 2014, 5, 533.	3.6	44
16	Cloning and characterisation of ripening-induced ethylene biosynthetic genes from non-climacteric pineapple ( <i>Ananas comosus</i> ) fruits. <i>Functional Plant Biology</i> , 1998, 25, 513.	2.1	43
17	An in vivo, luciferase-based, <i>Agrobacterium</i> -infiltration assay system: implications for post-transcriptional gene silencing. <i>Planta</i> , 2006, 224, 582-597.	3.2	39
18	Characterization of a Strong, Constitutive Mung Bean ( <i>Vigna radiata</i> L.) Promoter with a Complex Mode of Regulation in <i>planta</i> . <i>Transgenic Research</i> , 2005, 14, 941-967.	2.4	34

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19	Environmental impacts on carotenoid metabolism in leaves. <i>Plant Growth Regulation</i> , 2020, 92, 455-477.	3.4	33
20	Light-limited photosynthesis under energy-saving film decreases eggplant yield. <i>Food and Energy Security</i> , 2020, 9, e245.	4.3	31
21	In vivo characterization of plant promoter element interaction using synthetic promoters. <i>Transgenic Research</i> , 2008, 17, 437-457.	2.4	30
22	Potential implications for epigenetic regulation of carotenoid biosynthesis during root and shoot development. <i>Plant Signaling and Behavior</i> , 2009, 4, 339-341.	2.4	30
23	Leaf-age dependent response of carotenoid accumulation to elevated CO <sub>2</sub> in <i>Arabidopsis</i> . <i>Archives of Biochemistry and Biophysics</i> , 2018, 647, 67-75.	3.0	29
24	Light-altering cover materials and sustainable greenhouse production of vegetables: a review. <i>Plant Growth Regulation</i> , 2021, 95, 1-17.	3.4	27
25	TOWARDS THE PRODUCTION OF TRANSGENIC PINEAPPLE TO CONTROL FLOWERING AND RIPENING. <i>Acta Horticulturae</i> , 2000, , 115-122.	0.2	26
26	Promoting gene expression in plants by permissive histone lysine methylation. <i>Plant Signaling and Behavior</i> , 2009, 4, 484-488.	2.4	26
27	Inflorescence stem grafting made easy in <i>Arabidopsis</i> . <i>Plant Methods</i> , 2012, 8, 50.	4.3	23
28	Short-term resistance that persists: Rapidly induced silicon anti-herbivore defence affects carbon-based plant defences. <i>Functional Ecology</i> , 2021, 35, 82-92.	3.6	22
29	Molecular Evolution and Interaction of Membrane Transport and Photoreception in Plants. <i>Frontiers in Genetics</i> , 2019, 10, 956.	2.3	21
30	The 5' untranslated region of the VR-ACS1 mRNA acts as a strong translational enhancer in plants. <i>Transgenic Research</i> , 2010, 19, 667-674.	2.4	20
31	Transgene Silencing and Transgene-Derived siRNA Production in Tobacco Plants Homozygous for an Introduced AtMYB90 Construct. <i>PLoS ONE</i> , 2012, 7, e30141.	2.5	20
32	The promoter of the <i>Arabidopsis</i> PIN6 auxin transporter enabled strong expression in the vasculature of roots, leaves, floral stems and reproductive organs. <i>Plant Signaling and Behavior</i> , 2014, 9, e27898.	2.4	20
33	Prior exposure of <i>Arabidopsis</i> seedlings to mechanical stress heightens jasmonic acid-mediated defense against necrotrophic pathogens. <i>BMC Plant Biology</i> , 2020, 20, 548.	3.6	18
34	cis/trans Carotenoid Extraction, Purification, Detection, Quantification, and Profiling in Plant Tissues. <i>Methods in Molecular Biology</i> , 2020, 2083, 145-163.	0.9	18
35	Epigenetic Control of Carotenogenesis During Plant Development. <i>Critical Reviews in Plant Sciences</i> , 2021, 40, 23-48.	5.7	16
36	Effect of high light on canopy-level photosynthesis and leaf mesophyll ion flux in tomato. <i>Planta</i> , 2020, 252, 80.	3.2	15

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37	Plant viral intergenic DNA sequence repeats with transcription enhancing activity. <i>Virology Journal</i> , 2005, 2, 16.	3.4	14
38	A novel cover material improves cooling energy and fertigation efficiency for glasshouse eggplant production. <i>Energy</i> , 2022, 251, 123871.	8.8	14
39	Functional characterization of the geminiviral conserved late element (CLE) in uninfected tobacco. <i>Plant Molecular Biology</i> , 2005, 58, 465-481.	3.9	13
40	Smart glass impacts stomatal sensitivity of greenhouse <i>Capsicum</i> through altered light. <i>Journal of Experimental Botany</i> , 2021, 72, 3235-3248.	4.8	13
41	A Spontaneous Dominant-Negative Mutation within a 35S::AtMYB90 Transgene Inhibits Flower Pigment Production in Tobacco. <i>PLoS ONE</i> , 2010, 5, e9917.	2.5	13
42	Mechanical stress acclimation in plants: Linking hormones and somatic memory to thigmomorphogenesis. <i>Plant, Cell and Environment</i> , 2022, 45, 989-1010.	5.7	13
43	Construction and testing of an intron-containing luciferase reporter gene from <i>Renilla reniformis</i> . <i>Plant Molecular Biology Reporter</i> , 2003, 21, 271-280.	1.8	12
44	Short-term exposure to silicon rapidly enhances plant resistance to herbivory. <i>Ecology</i> , 2021, 102, e03438.	3.2	12
45	Abscisic acid supports colonization of <i>Eucalyptus grandis</i> roots by the mutualistic ectomycorrhizal fungus <i>Pisolithus microcarpus</i> . <i>New Phytologist</i> , 2022, 233, 966-982.	7.3	12
46	An extreme heatwave enhanced the xanthophyll de-epoxidation state in leaves of <i>Eucalyptus</i> trees grown in the field. <i>Physiology and Molecular Biology of Plants</i> , 2020, 26, 211-218.	3.1	11
47	Contrasting effects of Miocene and Anthropocene levels of atmospheric CO <sub>2</sub> on silicon accumulation in a model grass. <i>Biology Letters</i> , 2020, 16, 20200608.	2.3	10
48	Purification and use of carotenoid standards to quantify cis-trans geometrical carotenoid isomers in plant tissues. <i>Methods in Enzymology</i> , 2022, , 57-85.	1.0	10
49	Biosynthesis and Regulation of Carotenoids in Plants” <i>Micronutrients, Vitamins and Health Benefits.</i> , 2010, , 117-137.		9
50	Anti-herbivore silicon defences in a model grass are greatest under Miocene levels of atmospheric CO <sub>2</sub> . <i>Global Change Biology</i> , 2021, 27, 2959-2969.	9.5	9
51	Precision Pollination Strategies for Advancing Horticultural Tomato Crop Production. <i>Agronomy</i> , 2022, 12, 518.	3.0	9
52	Smart Glass Film Reduced Ascorbic Acid in Red and Orange <i>Capsicum</i> Fruit Cultivars without Impacting Shelf Life. <i>Plants</i> , 2022, 11, 985.	3.5	8
53	Analysis of RNA-mediated gene silencing using a new vector (pKNOCKOUT) and an in planta <i>Agrobacterium</i> transient expression system. <i>Plant Molecular Biology Reporter</i> , 2004, 22, 347-359.	1.8	6
54	Current Technologies and Target Crops: A Review on Australian Protected Cropping. <i>Crops</i> , 2022, 2, 172-185.	1.4	6

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55	Prolonged cold exposure to Arabidopsis juvenile seedlings extends vegetative growth and increases the number of shoot branches. <i>Plant Signaling and Behavior</i> , 2020, 15, 1789320.	2.4	5
56	Horticultural innovation by viral-induced gene regulation of carotenogenesis. <i>Horticulture Research</i> , 2022, 9, .	6.3	4
57	A foliar pigment-based bioassay for interrogating chloroplast signalling revealed that carotenoid isomerisation regulates chlorophyll abundance. <i>Plant Methods</i> , 2022, 18, 18.	4.3	4
58	Contrasting impacts of herbivore induction and elevated atmospheric CO <sub>2</sub> on silicon defences and consequences for subsequent herbivores. <i>Entomologia Experimentalis Et Applicata</i> , 2022, 170, 681-688.	1.4	3
59	Tangerine tomato roots show increased accumulation of acyclic carotenoids, less abscisic acid, drought sensitivity, and impaired endomycorrhizal colonization. <i>Plant Science</i> , 2022, 321, 111308.	3.6	3
60	Short photoperiod attenuates CO <sub>2</sub> fertilization effect on shoot biomass in <i>Arabidopsis thaliana</i> . <i>Physiology and Molecular Biology of Plants</i> , 2021, 27, 825-834.	3.1	2
61	Microbes in <i>Helicoverpa armigera</i> oral secretions contribute to increased senescence around plant wounds. <i>Ecological Entomology</i> , 2020, 45, 1224-1229.	2.2	0
62	Metabolic similarity of plant and human: implications for efficacy and regulatory compliance of herbal therapies. <i>Australian Herbal Insight</i> , 2019, 2, .	0.1	0