

Louise Colville

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,498
citations

567247

15
h-index

526264

27
g-index

28
all docs

28
docs citations

28
times ranked

2023
citing authors

#	ARTICLE	IF	CITATIONS
1	The ecophysiology of seed persistence: a mechanistic view of the journey to germination or demise. <i>Biological Reviews</i> , 2015, 90, 31-59.	10.4	350
2	Metals and seeds: Biochemical and molecular implications and their significance for seed germination. <i>Environmental and Experimental Botany</i> , 2011, 72, 93-105.	4.2	262
3	Physical dormancy in seeds: a game of hide and seek?. <i>New Phytologist</i> , 2013, 198, 496-503.	7.3	98
4	Genome-wide association mapping and biochemical markers reveal that seed ageing and longevity are intricately affected by genetic background and developmental and environmental conditions in barley. <i>Plant, Cell and Environment</i> , 2015, 38, 1011-1022.	5.7	95
5	Desiccation tolerant plants as model systems to study redox regulation of protein thiols. <i>Plant Growth Regulation</i> , 2010, 62, 241-255.	3.4	88
6	Extracellular superoxide production, viability and redox poise in response to desiccation in recalcitrant <i>Castanea sativa</i> seeds. <i>Plant, Cell and Environment</i> , 2009, 33, 59-75.	5.7	87
7	Transcriptome-Wide Mapping of Pea Seed Ageing Reveals a Pivotal Role for Genes Related to Oxidative Stress and Programmed Cell Death. <i>PLoS ONE</i> , 2013, 8, e78471.	2.5	74
8	Antioxidant status, peroxidase activity, and PR protein transcript levels in ascorbate-deficient <i>Arabidopsis thaliana</i> vtc mutants. <i>Journal of Experimental Botany</i> , 2008, 59, 3857-3868.	4.8	73
9	Seed life span and food security. <i>New Phytologist</i> , 2019, 224, 557-562.	7.3	64
10	Volatile fingerprints of seeds of four species indicate the involvement of alcoholic fermentation, lipid peroxidation, and Maillard reactions in seed deterioration during ageing and desiccation stress. <i>Journal of Experimental Botany</i> , 2012, 63, 6519-6530.	4.8	63
11	Mathematically combined half-cell reduction potentials of low-molecular-weight thiols as markers of seed ageing. <i>Free Radical Research</i> , 2011, 45, 1093-1102.	3.3	37
12	A proposed interplay between peroxidase, amine oxidase and lipoxygenase in the wounding-induced oxidative burst in <i>Pisum sativum</i> seedlings. <i>Phytochemistry</i> , 2015, 112, 130-138.	2.9	34
13	Seed Carotenoid and Tocochromanol Composition of Wild Fabaceae Species Is Shaped by Phylogeny and Ecological Factors. <i>Frontiers in Plant Science</i> , 2017, 8, 1428.	3.6	27
14	Wheat seed ageing viewed through the cellular redox environment and changes in pH. <i>Free Radical Research</i> , 2019, 53, 641-654.	3.3	23
15	Seed selection by earthworms: chemical seed properties matter more than morphological traits. <i>Plant and Soil</i> , 2017, 413, 97-110.	3.7	18
16	The induction of menadione stress tolerance in the marine microalga, <i>Dunaliella viridis</i> , through cold pretreatment and modulation of the ascorbate and glutathione pools. <i>Plant Physiology and Biochemistry</i> , 2014, 84, 96-104.	5.8	16
17	Monitoring of oxidative status in three native Australian species during cold acclimation and cryopreservation. <i>Plant Cell Reports</i> , 2017, 36, 1903-1916.	5.6	15
18	Synergy of production of value-added bioplastic, astaxanthin and phycobilin co-products and Direct Green 6 textile dye remediation in <i>Spirulina platensis</i> . <i>Chemosphere</i> , 2021, 280, 130920.	8.2	12

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19	The distribution of glutathione and homoglutathione in leaf, root and seed tissue of 73 species across the three sub-families of the Leguminosae. <i>Phytochemistry</i> , 2015, 115, 175-183.	2.9	10
20	Seed viability and fatty acid profiles of five orchid species before and after ageing. <i>Plant Biology</i> , 2022, 24, 168-175.	3.8	10
21	Volatile signature indicates viability of dormant orthodox seeds. <i>Physiologia Plantarum</i> , 2021, 173, 788-804.	5.2	8
22	Development of a reliable GC-MS method for fatty acid profiling using direct transesterification of minimal quantities of microscopic orchid seeds. <i>Seed Science Research</i> , 2016, 26, 84-91.	1.7	7
23	Gaseous environment modulates volatile emission and viability loss during seed artificial ageing. <i>Planta</i> , 2021, 253, 106.	3.2	7
24	The crypsis hypothesis explained: a reply to Jayasuriya et al. (2015). <i>Seed Science Research</i> , 2015, 25, 402-408.	1.7	6
25	Elemental localisation and a reduced glutathione redox state protect seeds of the halophyte <i>Suaeda maritima</i> from salinity during over-wintering and germination. <i>Environmental and Experimental Botany</i> , 2021, 190, 104569.	4.2	6
26	The influence of organic and inorganic chelators on the toxicity of bulk and nanoparticles of zinc oxide during germination and seedling growth of <i>Nicotiana tabacum</i> L. <i>Plant Biosystems</i> , 2019, 153, 436-449.	1.6	4
27	Comparative analyses of extreme dry seed thermotolerance in five Cactaceae species. <i>Environmental and Experimental Botany</i> , 2021, 188, 104514.	4.2	4