

Louise Colville

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

27
papers

1,081
citations

13
h-index

28
g-index

28
ext. papers

1,303
ext. citations

5.4
avg, IF

4.49
L-index

#	Paper	IF	Citations
27	The ecophysiology of seed persistence: a mechanistic view of the journey to germination or demise. <i>Biological Reviews</i> , 2015 , 90, 31-59	13.5	237
26	Metals and seeds: Biochemical and molecular implications and their significance for seed germination. <i>Environmental and Experimental Botany</i> , 2011 , 72, 93-105	5.9	195
25	Physical dormancy in seeds: a game of hide and seek?. <i>New Phytologist</i> , 2013 , 198, 496-503	9.8	77
24	Desiccation tolerant plants as model systems to study redox regulation of protein thiols. <i>Plant Growth Regulation</i> , 2010 , 62, 241-255	3.2	77
23	Extracellular superoxide production, viability and redox poise in response to desiccation in recalcitrant <i>Castanea sativa</i> seeds. <i>Plant, Cell and Environment</i> , 2010 , 33, 59-75	8.4	72
22	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, 3857-68	7	69
21	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, 1011-22	8.4	68
20	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	3.7	48
19	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, 6519-30	7	45
18	Seed life span and food security. <i>New Phytologist</i> , 2019 , 224, 557-562	9.8	34
17	Mathematically combined half-cell reduction potentials of low-molecular-weight thiols as markers of seed ageing. <i>Free Radical Research</i> , 2011 , 45, 1093-102	4	33
16	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, 130-8	4	28
15	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	6.2	17
14	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	5.4	13
13	Seed selection by earthworms: chemical seed properties matter more than morphological traits. <i>Plant and Soil</i> , 2017 , 413, 97-110	4.2	13
12	Wheat seed ageing viewed through the cellular redox environment and changes in pH. <i>Free Radical Research</i> , 2019 , 53, 641-654	4	12
11	The distribution of glutathione and homogluthathione in leaf, root and seed tissue of 73 species across the three sub-families of the Leguminosae. <i>Phytochemistry</i> , 2015 , 115, 175-83	4	9

10	Monitoring of oxidative status in three native Australian species during cold acclimation and cryopreservation. <i>Plant Cell Reports</i> , 2017 , 36, 1903-1916	5.1	7
9	The crypsis hypothesis explained: a reply to Jayasuriya et al. (2015). <i>Seed Science Research</i> , 2015 , 25, 402-408	1.3	5
8	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	1.3	5
7	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
6	Gaseous environment modulates volatile emission and viability loss during seed artificial ageing. <i>Planta</i> , 2021 , 253, 106	4.7	3
5	Comparative analyses of extreme dry seed thermotolerance in five Cactaceae species. <i>Environmental and Experimental Botany</i> , 2021 , 188, 104514	5.9	3
4	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	8.4	3
3	Volatile signature indicates viability of dormant orthodox seeds. <i>Physiologia Plantarum</i> , 2021 , 173, 788-804	4.4	2
2	Seed viability and fatty acid profiles of five orchid species before and after ageing. <i>Plant Biology</i> , 2022 , 24, 168-175	3.7	1
1	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	5.9	1