Louise Colville

List of Publications by Year
in descending order

27 papers	1,498 citations	643344 15 h-index	591227 27 g-index
28 all docs	28 docs citations	28 times ranked	2237 citing authors

#	Article	IF	Citations
1	Seed viability and fatty acid profiles of five orchid species before and after ageing. Plant Biology, 2022, 24, 168-175.	1.8	10
2	Gaseous environment modulates volatile emission and viability loss during seed artificial ageing. Planta, 2021, 253, 106.	1.6	7
3	Volatile signature indicates viability of dormant orthodox seeds. Physiologia Plantarum, 2021, 173, 788-804.	2.6	8
4	Comparative analyses of extreme dry seed thermotolerance in five Cactaceae species. Environmental and Experimental Botany, 2021, 188, 104514.	2.0	4
5	Synergy of production of value-added bioplastic, astaxanthin and phycobilin co-products and Direct Green 6 textile dye remediation in Spirulina platensis. Chemosphere, 2021, 280, 130920.	4.2	12
6	Elemental localisation and a reduced glutathione redox state protect seeds of the halophyte Suaeda maritima from salinity during over-wintering and germination. Environmental and Experimental Botany, 2021, 190, 104569.	2.0	6
7	Seed life span and food security. New Phytologist, 2019, 224, 557-562.	3.5	64
8	Wheat seed ageing viewed through the cellular redox environment and changes in pH. Free Radical Research, 2019, 53, 641-654.	1.5	23
9	The influence of organic and inorganic chelators on the toxicity of bulk and nanoparticles of zinc oxide during germination and seedling growth of Nicotiana tabacum L.. Plant Biosystems, 2019, 153, 436-449.	0.8	4
10	Monitoring of oxidative status in three native Australian species during cold acclimation and cryopreservation. Plant Cell Reports, 2017, 36, 1903-1916.	2.8	15
11	Seed selection by earthworms: chemical seed properties matter more than morphological traits. Plant and Soil, 2017, 413, 97-110.	1.8	18
12	Seed Carotenoid and Tocochromanol Composition of Wild Fabaceae Species Is Shaped by Phylogeny and Ecological Factors. Frontiers in Plant Science, 2017, 8, 1428.	1.7	27
13	Development of a reliable GC-MS method for fatty acid profiling using direct transesterification of minimal quantities of microscopic orchid seeds. Seed Science Research, 2016, 26, 84-91.	0.8	7
14	The crypsis hypothesis explained: a reply to Jayasuriya et al. (2015). Seed Science Research, 2015, 25, 402-408.	0.8	6
15	The distribution of glutathione and homoglutathione in leaf, root and seed tissue of 73 species across the three sub-families of the Leguminosae. Phytochemistry, 2015, 115, 175-183.	1.4	10
16	A proposed interplay between peroxidase, amine oxidase and lipoxygenase in the wounding-induced oxidative burst in Pisum sativum seedlings. Phytochemistry, 2015, 112, 130-138.	1.4	34
17	The ecophysiology of seed persistence: a mechanistic view of the journey to germination or demise. Biological Reviews, 2015, 90, 31-59.	4.7	350
18	Genomeâ€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. Plant, Cell and Environment, 2015, 38, 1011-1022.	2.8	95

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19	The induction of menadione stress tolerance in the marine microalga, Dunaliella viridis , through cold pretreatment and modulation of the ascorbate and glutathione pools. Plant Physiology and Biochemistry, 2014, 84, 96-104.	2.8	16
20	Physical dormancy in seeds: a game of hide and seek?. New Phytologist, 2013, 198, 496-503.	3.5	98
21	Transcriptome-Wide Mapping of Pea Seed Ageing Reveals a Pivotal Role for Genes Related to Oxidative Stress and Programmed Cell Death. PLoS ONE, 2013, 8, e78471.	1.1	74
22	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. Journal of Experimental Botany, 2012, 63, 6519-6530.	2.4	63
23	Mathematically combined half-cell reduction potentials of low-molecular-weight thiols as markers of seed ageing. Free Radical Research, 2011, 45, 1093-1102.	1.5	37
24	Metals and seeds: Biochemical and molecular implications and their significance for seed germination. Environmental and Experimental Botany, 2011, 72, 93-105.	2.0	262
25	Desiccation tolerant plants as model systems to study redox regulation of protein thiols. Plant Growth Regulation, 2010, 62, 241-255.	1.8	88
26	Extracellular superoxide production, viability and redox poise in response to desiccation in recalcitrantCastanea sativaseeds. Plant, Cell and Environment, 2009, 33, 59-75.	2.8	87
27	Antioxidant status, peroxidase activity, and PR protein transcript levels in ascorbate-deficient Arabidopsis thaliana vtc mutants. Journal of Experimental Botany, 2008, 59, 3857-3868.	2.4	73