

Julia Buitink

List of Publications by Year in Descending Order

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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.

70
papers

4,279
citations

34
h-index

65
g-index

79
ext. papers

4,953
ext. citations

5.7
avg, IF

5.36
L-index

#	Paper	IF	Citations
70	New Technologies for the Deployment of Extended Biocontrol 2022 , 245-255		
69	Gene co-expression analysis of tomato seed maturation reveals tissue-specific regulatory networks and hubs associated with the acquisition of desiccation tolerance and seed vigour. <i>BMC Plant Biology</i> , 2021 , 21, 124	5.3	4
68	Genetic determinants of seed protein plasticity in response to the environment in <i>Medicago truncatula</i> . <i>Plant Journal</i> , 2021 , 106, 1298-1311	6.9	0
67	Genome-Wide Association Studies of Seed Performance Traits in Response to Heat Stress in Uncover as a Regulator of Seed Germination Plasticity. <i>Frontiers in Plant Science</i> , 2021 , 12, 673072	6.2	2
66	Dataset for transcriptome and physiological response of mature tomato seed tissues to light and heat during fruit ripening. <i>Data in Brief</i> , 2021 , 34, 106671	1.2	
65	Dataset for the metabolic and physiological characterization of seeds from oilseed rape (L.) plants grown under single or combined effects of drought and clubroot pathogen. <i>Data in Brief</i> , 2021 , 37, 107247	1.2	1
64	RNA sequencing data for responses to drought stress and/or clubroot infection in developing seeds of. <i>Data in Brief</i> , 2021 , 38, 107392	1.2	
63	Molecular and environmental factors regulating seed longevity. <i>Biochemical Journal</i> , 2020 , 477, 305-323	3.8	28
62	A role for auxin signaling in the acquisition of longevity during seed maturation. <i>New Phytologist</i> , 2020 , 225, 284-296	9.8	17
61	The seed-specific heat shock factor A9 regulates the depth of dormancy in <i>Medicago truncatula</i> seeds via ABA signalling. <i>Plant, Cell and Environment</i> , 2020 , 43, 2508-2522	8.4	6
60	Deep learning-based detection of seedling development. <i>Plant Methods</i> , 2020 , 16, 103	5.8	12
59	A Seed-Specific Regulator of Triterpene Saponin Biosynthesis in. <i>Plant Cell</i> , 2020 , 32, 2020-2042	11.6	10
58	A physiological perspective of late maturation processes and establishment of seed quality in <i>Medicago truncatula</i> seeds 2019 , 44-54		1
57	Late seed maturation improves the preservation of seedling emergence during storage in soybean. <i>Journal of Seed Science</i> , 2018 , 40, 185-192	1	9
56	Letters to the twenty-first century botanist. Second series: What is a seed? II. Regulation of desiccation tolerance and longevity in developing seeds: two faces of the same coin <i>Botany Letters</i> , 2018 , 165, 181-185	1.1	5
55	Whole-genome landscape of <i>Medicago truncatula</i> symbiotic genes. <i>Nature Plants</i> , 2018 , 4, 1017-1025	11.5	99
54	Genome-wide association studies with proteomics data reveal genes important for synthesis, transport and packaging of globulins in legume seeds. <i>New Phytologist</i> , 2017 , 214, 1597-1613	9.8	29

53	Molecular characterization of the acquisition of longevity during seed maturation in soybean. <i>PLoS ONE</i> , 2017 , 12, e0180282	3.7	41
52	Late seed maturation: drying without dying. <i>Journal of Experimental Botany</i> , 2017 , 68, 827-841	7	120
51	ABI5 Is a Regulator of Seed Maturation and Longevity in Legumes. <i>Plant Cell</i> , 2016 , 28, 2735-2754	11.6	62
50	Key genes involved in desiccation tolerance and dormancy across life forms. <i>Plant Science</i> , 2016 , 251, 162-168	5.3	24
49	Foreword. Special issue on desiccation biology. <i>Planta</i> , 2015 , 242, 367	4.7	1
48	Introduction to desiccation biology: from old borders to new frontiers. <i>Planta</i> , 2015 , 242, 369-78	4.7	42
47	A gene co-expression network predicts functional genes controlling the re-establishment of desiccation tolerance in germinated <i>Arabidopsis thaliana</i> seeds. <i>Planta</i> , 2015 , 242, 435-49	4.7	37
46	Identification of a molecular dialogue between developing seeds of <i>Medicago truncatula</i> and seedborne xanthomonads. <i>Journal of Experimental Botany</i> , 2015 , 66, 3737-52	7	15
45	Inference of Longevity-Related Genes from a Robust Coexpression Network of Seed Maturation Identifies Regulators Linking Seed Storability to Biotic Defense-Related Pathways. <i>Plant Cell</i> , 2015 , 27, 2692-708	11.6	80
44	Time-series analysis of the transcriptome of the re-establishment of desiccation tolerance by ABA in germinated <i>Arabidopsis thaliana</i> seeds. <i>Genomics Data</i> , 2015 , 5, 154-6		2
43	A regulatory network-based approach dissects late maturation processes related to the acquisition of desiccation tolerance and longevity of <i>Medicago truncatula</i> seeds. <i>Plant Physiology</i> , 2013 , 163, 757-74	6.6	119
42	An emerging picture of the seed desiccome: confirmed regulators and newcomers identified using transcriptome comparison. <i>Frontiers in Plant Science</i> , 2013 , 4, 497	6.2	25
41	LEA polypeptide profiling of recalcitrant and orthodox legume seeds reveals ABI3-regulated LEA protein abundance linked to desiccation tolerance. <i>Journal of Experimental Botany</i> , 2013 , 64, 4559-73	7	89
40	Legume adaptation to sulfur deficiency revealed by comparing nutrient allocation and seed traits in <i>Medicago truncatula</i> . <i>Plant Journal</i> , 2013 , 76, 982-96	6.9	23
39	A role for an endosperm-localized subtilase in the control of seed size in legumes. <i>New Phytologist</i> , 2012 , 196, 738-751	9.8	36
38	Temporal profiling of the heat-stable proteome during late maturation of <i>Medicago truncatula</i> seeds identifies a restricted subset of late embryogenesis abundant proteins associated with longevity. <i>Plant, Cell and Environment</i> , 2012 , 35, 1440-55	8.4	93
37	Quantitative trait loci analysis reveals a correlation between the ratio of sucrose/raffinose family oligosaccharides and seed vigour in <i>Medicago truncatula</i> . <i>Plant, Cell and Environment</i> , 2011 , 34, 1473-87	8.4	59
36	The reduction of seed-specific dehydrins reduces seed longevity in <i>Arabidopsis thaliana</i> . <i>Seed Science Research</i> , 2011 , 21, 165-173	1.3	67

35	MtPM25 is an atypical hydrophobic late embryogenesis-abundant protein that dissociates cold and desiccation-aggregated proteins. <i>Plant, Cell and Environment</i> , 2010 , 33, 418-30	8.4	81
34	The MtSNF4b subunit of the sucrose non-fermenting-related kinase complex connects after-ripening and constitutive defense responses in seeds of <i>Medicago truncatula</i> . <i>Plant Journal</i> , 2010 , 61, 792-803	6.9	15
33	Characterization of dormancy behaviour in seeds of the model legume <i>Medicago truncatula</i> . <i>Seed Science Research</i> , 2010 , 20, 97-107	1.3	28
32	Dormancy in Plant Seeds. <i>Topics in Current Genetics</i> , 2010 , 43-67		24
31	Desiccation tolerance: From genomics to the field. <i>Plant Science</i> , 2010 , 179, 554-564	5.3	106
30	Intracellular glasses and seed survival in the dry state. <i>Comptes Rendus - Biologies</i> , 2008 , 331, 788-95	1.4	113
29	The regulatory gamma subunit SNF4b of the sucrose non-fermenting-related kinase complex is involved in longevity and stachyose accumulation during maturation of <i>Medicago truncatula</i> seeds. <i>Plant Journal</i> , 2007 , 51, 47-59	6.9	58
28	Comparative analysis of the heat stable proteome of radicles of <i>Medicago truncatula</i> seeds during germination identifies late embryogenesis abundant proteins associated with desiccation tolerance. <i>Plant Physiology</i> , 2006 , 140, 1418-36	6.6	168
27	Transcriptome profiling uncovers metabolic and regulatory processes occurring during the transition from desiccation-sensitive to desiccation-tolerant stages in <i>Medicago truncatula</i> seeds. <i>Plant Journal</i> , 2006 , 47, 735-50	6.9	114
26	Changes in DNA and microtubules during loss and re-establishment of desiccation tolerance in germinating <i>Medicago truncatula</i> seeds. <i>Journal of Experimental Botany</i> , 2005 , 56, 2119-30	7	76
25	The role of sugars and hexose phosphorylation in regulating the re-establishment of desiccation tolerance in germinated radicles of <i>Cucumis sativa</i> and <i>Medicago truncatula</i> . <i>Physiologia Plantarum</i> , 2004 , 122, 200-209	4.6	6
24	Starvation, osmotic stress and desiccation tolerance lead to expression of different genes of the regulatory β and β subunits of the SnRK1 complex in germinating seeds of <i>Medicago truncatula</i> . <i>Plant, Cell and Environment</i> , 2004 , 27, 55-67	8.4	23
23	Glass formation in plant anhydrobiotes: survival in the dry state. <i>Cryobiology</i> , 2004 , 48, 215-28	2.7	270
22	The re-establishment of desiccation tolerance in germinated radicles of <i>Medicago truncatula</i> Gaertn. seeds. <i>Seed Science Research</i> , 2003 , 13, 273-286	1.3	83
21	Are sugar-sensing pathways involved in desiccation tolerance? 2003 , 271-277		
20	Mechanisms of plant desiccation tolerance. <i>Trends in Plant Science</i> , 2001 , 6, 431-8	13.1	973
19	Pulsed EPR spin-probe study of intracellular glasses in seed and pollen. <i>Journal of Magnetic Resonance</i> , 2000 , 142, 364-8	3	14
18	The effects of moisture and temperature on the ageing kinetics of pollen: interpretation based on cytoplasmic mobility. <i>Plant, Cell and Environment</i> , 2000 , 23, 967-974	8.4	15

17	Molecular mobility in the cytoplasm: an approach to describe and predict lifespan of dry germplasm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 2385-90	11.5	65
16	Dehydration-induced redistribution of amphiphilic molecules between cytoplasm and lipids is associated with desiccation tolerance in seeds. <i>Plant Physiology</i> , 2000 , 124, 1413-26	6.6	24
15	Is there a role for oligosaccharides in seed longevity? An assessment of intracellular glass stability. <i>Plant Physiology</i> , 2000 , 122, 1217-24	6.6	90
14	A study of water relations in neem (<i>Azadirachta indica</i>) seed that is characterized by complex storage behaviour. <i>Journal of Experimental Botany</i> , 2000 , 51, 635-43	7	30
13	Molecular mobility in the cytoplasm of lettuce radicles correlates with longevity. <i>Seed Science Research</i> , 2000 , 10, 285-292	1.3	6
12	Metabolic dysfunction and unabated respiration precede the loss of membrane integrity during dehydration of germinating radicles. <i>Plant Physiology</i> , 2000 , 122, 597-608	6.6	98
11	High critical temperature above T(g) may contribute to the stability of biological systems. <i>Biophysical Journal</i> , 2000 , 79, 1119-28	2.9	121
10	Axes and cotyledons of recalcitrant seeds of <i>Castanea sativa</i> Mill. exhibit contrasting responses of respiration to drying in relation to desiccation sensitivity. <i>Journal of Experimental Botany</i> , 1999 , 50, 1515-1524	5.5	55
9	Characterization of molecular mobility in seed tissues: an electron paramagnetic resonance spin probe study. <i>Biophysical Journal</i> , 1999 , 76, 3315-22	2.9	43
8	A Model of the Effect of Temperature and Moisture on Pollen Longevity in Air-dry Storage Environments. <i>Annals of Botany</i> , 1999 , 83, 167-173	4.1	16
7	Storage behavior of <i>Typha latifolia</i> pollen at low water contents: Interpretation on the basis of water activity and glass concepts. <i>Physiologia Plantarum</i> , 1998 , 103, 145-153	4.6	44
6	Induction of defense-related responses in Cf9 tomato cells by the AVR9 elicitor peptide of <i>cladosporium fulvum</i> is developmentally regulated. <i>Plant Physiology</i> , 1998 , 117, 809-20	6.6	47
5	Influence of water content and temperature on molecular mobility and intracellular glasses in seeds and pollen. <i>Plant Physiology</i> , 1998 , 118, 531-41	6.6	111
4	Membrane Stabilization in the Dry State. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1997 , 117, 335-341		94
3	Calorimetric Properties of Dehydrating Pollen (Analysis of a Desiccation-Tolerant and an Intolerant Species). <i>Plant Physiology</i> , 1996 , 111, 235-242	6.6	81
2	The Glassy State in Dry Seeds and Pollen		193-214 3
1	Axes and cotyledons of recalcitrant seeds of <i>Castanea sativa</i> Mill. exhibit contrasting responses of respiration to drying in relation to desiccation sensitivity		21