Manuela Nagel

List of Publications by Citations

37 papers	692 citations	15 h-index	25 g-index
48 ext. papers	961 ext. citations	3.6 avg, IF	4.24 L-index

#	Paper	IF	Citations
37	The longevity of crop seeds stored under ambient conditions. *Seed Science Research*, **2010**, 20, 1-12	1.3	96
36	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. *Plant, Cell and Environment*, **2015**, 38, 1011-22	8.4	68
35	Seed conservation in ex situ genebanks genetic studies on longevity in barley. *Euphytica*, **2009**, 170, 5-14	2.1	64
34	Genetic studies of seed longevity in hexaploid wheat using segregation and association mapping approaches. *Euphytica*, **2012**, 186, 1-13	2.1	45
33	Seed longevity in oilseed rape (Brassica napus L.) genetic variation and QTL mapping. *Plant Genetic Resources: Characterisation and Utilisation*, **2011**, 9, 260-263	1	37
32	An association mapping analysis of dormancy and pre-harvest sprouting in wheat. *Euphytica*, **2012**, 188, 409-417	2.1	31
31	Challenges and Prospects for the Conservation of Crop Genetic Resources in Field Genebanks, in In Vitro Collections and/or in Liquid Nitrogen. *Plants*, **2020**, 9,	4.5	26
30	Assessment of Pollen Viability for Wheat. *Frontiers in Plant Science*, **2019**, 10, 1588	6.2	24
29	Barley Seed Aging: Genetics behind the Dry Elevated Pressure of Oxygen Aging and Moist Controlled Deterioration. *Frontiers in Plant Science*, **2016**, 7, 388	6.2	24
28	Age-dependent loss of seed viability is associated with increased lipid oxidation and hydrolysis. *Plant, Cell and Environment*, **2020**, 43, 303-314	8.4	22
27	Changes in tocochromanols and glutathione reveal differences in the mechanisms of seed ageing under seedbank conditions and controlled deterioration in barley. *Environmental and Experimental Botany*, **2018**, 156, 8-15	5.9	22
26	Genetic variation for secondary seed dormancy and seed longevity in a set of black-seeded European winter oilseed rape cultivars. *Plant Breeding*, **2013**, 132, 174-179	2.4	20
25	Novel loci and a role for nitric oxide for seed dormancy and preharvest sprouting in barley. *Plant, Cell and Environment*, **2019**, 42, 1318-1327	8.4	19
24	Genetic architecture of seed longevity in bread wheat (Triticum aestivum L.). *Journal of Biosciences*, **2017**, 42, 81-89	2.3	18
23	QTL analysis of falling number and seed longevity in wheat (Triticum aestivum L.). *Journal of Applied Genetics*, **2018**, 59, 35-42	2.5	17
22	Genome-Wide Association Mapping of Anther Extrusion in Hexaploid Spring Wheat. *PLoS ONE*, **2016**, 11, e0155494	3.7	15
21	Comparative physiology and proteomics of two wheat genotypes differing in seed storage tolerance. *Plant Physiology and Biochemistry*, **2018**, 130, 455-463	5.4	14

20	Mapping quantitative trait loci determining seed longevity in tobacco (Nicotiana tabacum L.). *Euphytica*, **2015**, 202, 479-486	2.1	14
19	Molecular markers in management of ex situ PGR-a case study. *Journal of Biosciences*, **2012**, 37, 871-7	2.3	14
18	The genetic basis of durum wheat germination and seedling growth under osmotic stress. *Biologia Plantarum*, **2014**, 58, 681-688	2.1	13
17	Wheat seed ageing viewed through the cellular redox environment and changes in pH. *Free Radical Research*, **2019**, 53, 641-654	4	12
16	Deciphering the Epigenetic Alphabet Involved in Transgenerational Stress Memory in Crops. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	12
15	Changes of soluble sugars and ATP content during DMSO droplet freezing and PVS3 droplet vitrification of potato shoot tips. *Cryobiology*, **2018**, 85, 79-86	2.7	12
14	Genetic analysis of drought response of wheat following either chemical desiccation or the use of a rain-out shelter. *Journal of Applied Genetics*, **2019**, 60, 137-146	2.5	8
13	Effects of Rht dwarfing alleles on wheat seed vigour after controlled deterioration. *Crop and Pasture Science*, **2013**, 64, 857	2.2	7
12	Factors determining microbial colonization of liquid nitrogen storage tanks used for archiving biological samples. *Applied Microbiology and Biotechnology*, **2020**, 104, 131-144	5.7	7
11	The search for candidate genes associated with natural variation of grain Zn accumulation in barley. *Biochemical Journal*, **2019**, 476, 1889-1909	3.8	6
10	Machine learning links seed composition, glucosinolates and viability of oilseed rape after 31 years of long-term storage. *Seed Science Research*, **2018**, 28, 340-348	1.3	5
9	Cryopreservation of Plant Shoot Tips of Potato, Mint, Garlic, and Shallot Using Plant Vitrification Solution 3. *Methods in Molecular Biology*, **2021**, 2180, 647-661	1.4	3
8	Genome-wide association mapping reveals putative candidate genes for drought tolerance in barley. *Environmental and Experimental Botany*, **2020**, 180, 104237	5.9	3
7	Arabidopsis a model to elucidate complex stress response mechanism during cryopreservation. *Acta Horticulturae*, **2019**, 85-96	0.3	2
6	DEFECTIVE ENDOSPERM-D1 (Dee-D1) is crucial for endosperm development in hexaploid wheat. *Communications Biology*, **2020**, 3, 791	6.7	2
5	The transcription factor WRKY22 is required during cryo-stress acclimation in Arabidopsis shoot tips. *Journal of Experimental Botany*, **2020**, 71, 4993-5009	7	2
4	Microbial occurrence in liquid nitrogen storage tanks: a challenge for cryobanking?. *Applied Microbiology and Biotechnology*, **2021**, 105, 7635-7650	5.7	2
3	Impact of drying and cooling rate on the survival of the desiccation-sensitive wheat pollen.. *Plant Cell Reports*, **2022**, 41, 447	5.1	1

2	Inheritance of seed quality and seed germination in two doubled haploid populations of oilseed rape segregating for acid detergent lignin (ADL) content. *Euphytica*, **2021**, 217, 1	2.1	1
1	Comparative Proteomics at the Critical Node of Vigor Loss in Wheat Seeds Differing in Storability. *Frontiers in Plant Science*, **2021**, 12, 707184	6.2	1