Bart Panis

List of Publications by Year
in descending order

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135 papers	4,705 citations	101543 36 h-index	114465 63 g-index
146 all docs	146 docs citations	146 times ranked	4039 citing authors

#	Article	IF	Citations
1	Banana seed genetic resources for food security: Status, constraints, and future priorities. Food and Energy Security, 2022, 11, e345.	4.3	6
2	OUP accepted manuscript. , 2022, 10, coab099.		2
3	Tissue necrosis prevention during shoot multiplication of coconut. Acta Horticulturae, 2022, , 173-180.	0.2	0
4	Phylogeography and conservation gaps of Musa balbisiana Colla genetic diversity revealed by microsatellite markers. Genetic Resources and Crop Evolution, 2022, 69, 2515-2534.	1.6	2
5	Advances in cryopreservation of in vitro-derived propagules: technologies and explant sources. Plant Cell, Tissue and Organ Culture, 2021, 144, 7-20.	2.3	62
6	Filling the gaps in gene banks: Collecting, characterizing, and phenotyping wild banana relatives of Papua New Guinea. Crop Science, 2021, 61, 137-149.	1.8	19
7	Cryopreservation and In Vitro banking: a cool subject â€“ Preface from the editors. Plant Cell, Tissue and Organ Culture, 2021, 144, 1-5.	2.3	8
8	Conservation status assessment of banana crop wild relatives using species distribution modelling. Diversity and Distributions, 2021, 27, 729-746.	4.1	20
9	Seed Banks as Incidental Fungi Banks: Fungal Endophyte Diversity in Stored Seeds of Banana Wild Relatives. Frontiers in Microbiology, 2021, 12, 643731.	3.5	12
10	Droplet-vitrification methods for apical bud cryopreservation of yacon [Smallanthus sonchifolius (Poepp. and Endl.) H. Rob.]. Plant Cell, Tissue and Organ Culture, 2021, 147, 197-208.	2.3	4
11	Genetic diversity and structure of Musa balbisiana populations in Vietnam and its implications for the conservation of banana crop wild relatives. PLoS ONE, 2021, 16, e0253255.	2.5	11
12	Maximizing genetic representation in seed collections from populations of self and cross-pollinated banana wild relatives. BMC Plant Biology, 2021, 21, 415.	3.6	6
13	Development of the first axillary in vitro shoot multiplication protocol for coconut palms. Scientific Reports, 2021, 11, 18367.	3.3	6
14	The potential to propagate coconut clones through direct shoot organogenesis: A review. Scientia Horticulturae, 2021, 289, 110400.	3.6	2
15	Using seminatural and simulated habitats for seed germination ecology of banana wild relatives. Ecology and Evolution, 2021, 11, 14644-14657.	1.9	1
16	Challenges for Ex Situ Conservation of Wild Bananas: Seeds Collected in Papua New Guinea Have Variable Levels of Desiccation Tolerance. Plants, 2020, 9, 1243.	3.5	17
17	Strategies to revise agrosystems and breeding to control Fusarium wilt of banana. Nature Food, 2020, 1, 599-604.	14.0	32
18	Ecological divergence of wild strawberry DNA methylation patterns at distinct spatial scales. Molecular Ecology, 2020, 29, 4871-4881.	3.9	25

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19	Physiological and Structural Aspects of In Vitro Somatic Embryogenesis in Abies alba Mill. Forests, 2020, 11, 1210.	2.1	8
20	Correction to: Safeguarding and using global banana diversity: a holistic approach. CABI Agriculture and Bioscience, 2020, 1, .	2.4	0
21	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, 1634.	3.5	72
22	Development of a fast and user-friendly cryopreservation protocol for sweet potato genetic resources. Scientific Reports, 2020, 10, 14674.	3.3	15
23	Safeguarding and using global banana diversity: a holistic approach. CABI Agriculture and Bioscience, 2020, 1, .	2.4	26
24	Preâ€adaptation to climate change through topographyâ€driven phenotypic plasticity. Journal of Ecology, 2020, 108, 1465-1474.	4.0	30
25	Regulation of seed germination by diurnally alternating temperatures in disturbance-adapted banana crop wild relatives (Musa acuminata). Seed Science Research, 2020, 30, 238-248.	1.7	8
26	Seed germination, preservation and population genetics of wild Musa germplasm. Burleigh Dodds Series in Agricultural Science, 2020, , 167-192.	0.2	2
27	Is the bacterial leaf nodule symbiosis obligate for Psychotria umbellata? The development of a Burkholderia-free host plant. PLoS ONE, 2019, 14, e0219863.	2.5	5
28	Efficient slow-growth conservation and assessment of clonal fidelity of Ullucus tuberosus Caldas microshoots. Plant Cell, Tissue and Organ Culture, 2019, 138, 559-570.	2.3	10
29	The cryoprotectant PVS2 plays a crucial role in germinating Passiflora ligularis embryos after cryopreservation by influencing the mobilization of lipids and the antioxidant metabolism. Journal of Plant Physiology, 2019, 239, 71-82.	3.5	6
30	Sixty years of plant cryopreservation: from freezing hardy mulberry twigs to establishing reference crop collections for future generations. Acta Horticulturae, 2019, , 1-8.	0.2	67
31	Cryopreservation of Ashe magnolia shoot-tips by droplet-vitrification. Acta Horticulturae, 2019, , 233-240.	0.2	7
32	Developing coconut cryopreservation protocols and establishing cryo-genebank at RDA; a collaborative project between RDA and Bioversity International. Acta Horticulturae, 2019, , 343-348.	0.2	10
33	Genetic diversity and core subset selection inex situseed collections of the banana crop wild relativeMusa balbisiana. Plant Genetic Resources: Characterisation and Utilisation, 2019, 17, 536-544.	0.8	12
34	Detection of Burkholderia in the seeds of Psychotria punctata (Rubiaceae) â€“ Microscopic evidence for vertical transmission in the leaf nodule symbiosis. PLoS ONE, 2018, 13, e0209091.	2.5	11
35	In Vitro Cryopreservation of Date Palm Caulogenic Meristems. Methods in Molecular Biology, 2017, 1638, 39-48.	0.9	0
36	Characterization of the formation of somatic embryos from mature zygotic embryos of Passiflora ligularis Juss.. Plant Cell, Tissue and Organ Culture, 2017, 131, 97-105.	2.3	9

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37	Direct nematicidal effects of methyl jasmonate and acibenzolar-S-methyl against Meloidogyne incognita. Natural Product Research, 2017, 31, 1219-1222.	1.8	7
38	Somatic Embryogenesis in Coffee: The Evolution of Biotechnology and the Integration of Omics Technologies Offer Great Opportunities. Frontiers in Plant Science, 2017, 8, 1460.	3.6	64
39	Elucidation of the compatible interaction between banana and Meloidogyne incognita via high-throughput proteome profiling. PLoS ONE, 2017, 12, e0178438.	2.5	6
40	GMOs in horticulture â€“ exciting opportunities or a dead end? A case study on banana. Acta Horticulturae, 2016, , 49-58.	0.2	1
41	Strategies for conservation of endangered wild grapevine (Vitis viniferaL. subsp.sylvestris(C.C. Gmel.)) Tj ETQq1 1 0.784314 rgBT /Overl	0.2	7
42	Abiotic stress research in crops using -omics approaches: drought stress and banana in the spotlight. Acta Horticulturae, 2016, , 81-90.	0.2	15
43	The proteome profile of embryogenic cell suspensions of Coffea arabica L.. Proteomics, 2016, 16, 1001-1005.	2.2	22
44	Pre-treatment with salicylic acid improves plant regeneration after cryopreservation of grapevine (Vitis spp.) by droplet vitrification. Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	35
45	Tissue regeneration of Abies embryogenic cell lines after 1 year storage in liquid nitrogen. Biologia (Poland), 2016, 71, 93-99.	1.5	7
46	Securing Plant Genetic Resources for Perpetuity through Cryopreservation. Indian Journal of Plant Genetic Resources, 2016, 29, 300.	0.1	8
47	Exploitation and progress of GMOs â€“ past, present and future: exciting opportunities or a dead end?. Acta Horticulturae, 2016, , 101-114.	0.2	0
48	REMOVAL OF LEAFROLL VIRUSES FROM INFECTED GRAPEVINE PLANTS BY DROPLET VITRIFICATION. Acta Horticulturae, 2015, , 491-498.	0.2	29
49	Arbuscular Mycorrhizal Fungi for the Biocontrol of Plant-Parasitic Nematodes: A Review of the Mechanisms Involved. Frontiers in Microbiology, 2015, 6, 1280.	3.5	208
50	Improved cryopreservation method for the long-term conservation of the world potato germplasm collection. Plant Cell, Tissue and Organ Culture, 2015, 120, 117-125.	2.3	32
51	A comparative analysis of the fatty acid composition of sexual and asexual eggs ofDaphnia magnaand its plasticity as a function of food quality. Journal of Plankton Research, 2015, 37, 752-763.	1.8	19
52	Unravelling the effect of sucrose and cold pretreatment on cryopreservation of potato through sugar analysis and proteomics. Cryobiology, 2015, 71, 432-441.	0.7	43
53	Cryopreservation of Bituminaria bituminosa varieties and hybrids. Cryobiology, 2015, 71, 279-285.	0.7	3
54	Evaluation of four different strategies to characterize plasma membrane proteins from banana roots. Ciencia E Agrotecnologia, 2014, 38, 424-434.	1.5	1

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55	<b>Cryopreservation of <i>Byrsonima intermedia</i> embryos followed by room temperature thawing. Acta Scientiarum - Agronomy, 2014, 36, 309.	0.6	5
56	Changes in sugar content and proteome of potato in response to cold and dehydration stress and their implications for cryopreservation. Journal of Proteomics, 2014, 98, 99-111.	2.4	46
57	Development of a PVS2 droplet vitrification method for potato cryopreservation. Cryo-Letters, 2014, 35, 255-66.	0.3	20
58	Differential Protein Expression in Response to Abiotic Stress in Two Potato Species: Solanum commersonii Dun and Solanum tuberosum L.. International Journal of Molecular Sciences, 2013, 14, 4912-4933.	4.1	39
59	Mycorrhiza-induced resistance against the rootâ€“knot nematode Meloidogyne incognita involves priming of defense gene responses in tomato. Soil Biology and Biochemistry, 2013, 60, 45-54.	8.8	138
60	Cold hardening and sucrose treatment improve cryopreservation of date palm meristems. Biologia Plantarum, 2013, 57, 375-379.	1.9	19
61	The use of 2Dâ€ÐIGE to understand the regeneration of somatic embryos in avocado. Proteomics, 2013, 13, 3498-3507.	2.2	25
62	GENETICALLY MODIFIED BANANAS: PAST, PRESENT AND FUTURE. Acta Horticulturae, 2013, , 71-80.	0.2	6
63	Cryopreservation of Galanthus elwesii Hook. apical meristems by droplet vitrification. Cryo-Letters, 2013, 34, 1-9.	0.3	9
64	Shoot-tip cryopreservation by droplet vitrification of Byrsonima intermedia A. Juss.: a woody tropical and medicinal plant species from Brazilian cerrado. Cryo-Letters, 2013, 34, 338-48.	0.3	6
65	Screening the banana biodiversity for drought tolerance: can an in vitro growth model and proteomics be used as a tool to discover tolerant varieties and understand homeostasis. Frontiers in Plant Science, 2012, 3, 176.	3.6	96
66	Thermotherapy, Chemotherapy, and Meristem Culture in Banana. Methods in Molecular Biology, 2012, 11013, 419-433.	0.9	13
67	Arbuscular mycorrhizal fungi induce systemic resistance in tomato against the sedentary nematode Meloidogyne incognita and the migratory nematode Pratylenchus penetrans. Applied Soil Ecology, 2012, 61, 1-6.	4.3	101
68	Arbuscular mycorrhizal fungi reduce root-knot nematode penetration through altered root exudation of their host. Plant and Soil, 2012, 354, 335-345.	3.7	90
69	Long-term maintenance of Pinus nigra embryogenic cultures through cryopreservation. Acta Physiologiae Plantarum, 2012, 34, 227-233.	2.1	15
70	Arbuscular mycorrhizal fungi affect both penetration and further life stage development of root-knot nematodes in tomato. Mycorrhiza, 2012, 22, 157-163.	2.8	39
71	IN VITRO STORAGE AND CRYOPRESERVATION AS SUBSTANTIAL COMPLEMENTS IN CONCERTED ACTIONS TO BETTER MAINTAIN AND USE CROP GERMPLASM. Acta Horticulturae, 2012, , 35-50.	0.2	4
72	ULTRASTRUCTURAL CHANGES IN SUSPENSION CULTURES OF BANANA (MUSA SPP. AAA) DURING CRYOPRESERVATION BY VITRIFICATION. Acta Horticulturae, 2011, , 73-81.	0.2	1

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73	RASPBERRY CRYOPRESERVATION BY DROPLET VITRIFICATION TECHNIQUE. Acta Horticulturae, 2011, , 965-969.	0.2	5
74	CRYOPRESERVATION OF AVOCADO EMBRYOGENIC CULTURES. Acta Horticulturae, 2011, , 215-218.	0.2	0
75	FROM FUNDAMENTAL RESEARCH DISCOVERIES TO APPLICATIONS FOR BANANA IMPROVEMENT. Acta Horticulturae, 2011, , 47-53.	0.2	5
76	CRYOTHERAPY OF SHOOT TIPS: A NEWLY EMERGING TECHNIQUE FOR EFFICIENT ELIMINATION OF PLANT PATHOGENS. Acta Horticulturae, 2011, , 373-384.	0.2	5
77	CRYOPRESERVATION OF DATE PALM HIGHLY REGENERABLE TISSUES USING VITRIFICATION PROCEDURES. Acta Horticulturae, 2011, , 219-226.	0.2	0
78	DROPLET VITRIFICATION: THE FIRST GENERIC CRYOPRESERVATION PROTOCOL FOR ORGANIZED PLANT TISSUES?. Acta Horticulturae, 2011, , 157-162.	0.2	39
79	Structure and regulation of the Asr gene family in banana. Planta, 2011, 234, 785-798.	3.2	59
80	The use of 2D-electrophoresis and de novo sequencing to characterize inter- and intra-cultivar protein polymorphisms in an allopolyploid crop. Phytochemistry, 2011, 72, 1243-1250.	2.9	33
81	A workflow for peptide-based proteomics in a poorly sequenced plant: A case study on the plasma membrane proteome of banana. Journal of Proteomics, 2011, 74, 1218-1229.	2.4	40
82	Challenges and solutions for the identification of membrane proteins in non-model plants. Journal of Proteomics, 2011, 74, 1165-1181.	2.4	28
83	Unraveling tobacco BY-2 protein complexes with BN PAGE/LCâ€“MS/MS and clustering methods. Journal of Proteomics, 2011, 74, 1201-1217.	2.4	15
84	Plant proteomics in Europe â€” COST action FA0603. Journal of Proteomics, 2011, 74, 1161-1164.	2.4	2
85	Cryopreservation of apple in vitro axillary buds using droplet-vitrification. Cryo-Letters, 2011, 32, 175-85.	0.3	20
86	Evaluation of chloroform/methanol extraction to facilitate the study of membrane proteins of non-model plants. Planta, 2010, 231, 1113-1125.	3.2	24
87	In planta PCR-based detection of early infection of plant-parasitic nematodes in the roots: a step towards the understanding of infection and plant defence. European Journal of Plant Pathology, 2010, 128, 343-351.	1.7	14
88	Improvement of bananas for black sigatoka and panama disease resistance through genetic manipulation. African Crop Science Journal, 2010, 2, .	0.2	2
89	Sugar-Mediated Acclimation: The Importance of Sucrose Metabolism in Meristems. Journal of Proteome Research, 2010, 9, 5038-5046.	3.7	30
90	Cryopreservation of Thymus moroderi by droplet vitrification. Cryo-Letters, 2010, 31, 14-23.	0.3	10

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91	Recovery and characterisation of hybrid firs (Abies alba x A. cephalonica, Abies albax A. numidica) embryogenic tissues after cryopreservation. Cryo-Letters, 2010, 31, 206-17.	0.3	12
92	Cryopreservation of hairy root cultures of MaesaÂlanceolata and MedicagoÂtruncatula. Plant Cell, Tissue and Organ Culture, 2009, 96, 289-296.	2.3	28
93	Cryotherapy of shoot tips: a technique for pathogen eradication to produce healthy planting materials and prepare healthy plant genetic resources for cryopreservation. Annals of Applied Biology, 2009, 154, 351-363.	2.5	111
94	Plant Protein Sample Preparation for 2-DE. Springer Protocols, 2009, , 109-119.	0.3	3
95	Cryopreservation of olive embryogenic cultures. Cryo-Letters, 2009, 30, 359-72.	0.3	9
96	Adventitious shoot formation is not inherent to micropropagation of banana as it is in maize. Plant Cell, Tissue and Organ Culture, 2008, 95, 321-332.	2.3	15
97	Treatment of missing values for multivariate statistical analysis of gelâ€based proteomics data. Proteomics, 2008, 8, 1371-1383.	2.2	56
98	Proteome analysis of nonâ€model plants: A challenging but powerful approach. Mass Spectrometry Reviews, 2008, 27, 354-377.	5.4	180
99	Functional genomics in a non-model crop: transcriptomics or proteomics?. Physiologia Plantarum, 2008, 133, 117-130.	5.2	50
100	Cryopreservation of Monocots. , 2008, , 241-280.		8
101	Finding the Significant Markers. Methods in Molecular Biology, 2008, 428, 327-347.	0.9	18
102	Cryopreservation of Pelargonium apices by droplet-vitrification. Cryo-Letters, 2008, 29, 243-51.	0.3	11
103	Cryopreservation of Radopholus similis, a tropical plant-parasitic nematode. Cryobiology, 2007, 55, 148-157.	0.7	6
104	Functional Proteome Analysis of the Banana Plant (Musa spp.) Using de Novo Sequence Analysis of Derivatized Peptides. Journal of Proteome Research, 2007, 6, 70-80.	3.7	49
105	Banana (Musa spp.) as a model to study the meristem proteome: Acclimation to osmotic stress. Proteomics, 2007, 7, 92-105.	2.2	110
106	Lyophilization, a Practical Way to Store and Transport Tissues Prior to Protein Extraction for 2DE Analysis?. Proteomics, 2007, 7, 64-69.	2.2	45
107	Cryopreservation of shoot-tips by droplet vitrification applicable to all taro (Colocasia esculenta) Tj ETQq1 1 0.784314 rgBT /Overlock	2.3	47
108	Cryopreservation of embryogenic tissues of Pinus nigra Arn. by a slow freezing method. Cryo-Letters, 2007, 28, 69-76.	0.3	11

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109	Immunogold silver staining associated with epi-fluorescence for cucumber mosaic virus localisation on semi-thin sections of banana tissues. European Journal of Histochemistry, 2007, 51, 153-8.	1.5	9
110	Development of embryogenic cell suspensions from shoot meristematic tissue in bananas and plantains (Musa spp.). Plant Science, 2006, 170, 104-112.	3.6	111
111	Change in sugar, sterol and fatty acid composition in banana meristems caused by sucrose-induced acclimation and its effects on cryopreservation. Physiologia Plantarum, 2006, 128, 80-94.	5.2	52
112	Simultaneous liquid chromatography determination of polyamines and arylalkyl monoamines. Analytical Biochemistry, 2006, 354, 127-131.	2.4	13
113	Establishment of embryogenic cell suspensions and plant regeneration of the dessert banana â€˜Williamsâ€™ (MusaAAA group). Journal of Horticultural Science and Biotechnology, 2005, 80, 551-556.	1.9	11
114	High-throughput determination of malondialdehyde in plant tissues. Analytical Biochemistry, 2005, 347, 201-207.	2.4	274
115	Preparation of protein extracts from recalcitrant plant tissues: An evaluation of different methods for two-dimensional gel electrophoresis analysis. Proteomics, 2005, 5, 2497-2507.	2.2	447
116	Droplet vitrification of apical meristems: a cryopreservation protocol applicable to all Musaceae. Plant Science, 2005, 168, 45-55.	3.6	261
117	Potential of flow cytometry for monitoring genetic stability of banana embryogenic cell suspension cultures. , 2005, , 337-344.		1
118	GERMPLASM CONSERVATION, VIRUS ERADICATION AND SAFE STORAGE OF TRANSFORMATION COMPETENT CULTURES IN BANANA: THE IMPORTANCE OF CRYOPRESERVATION. Acta Horticulturae, 2005, , 51-60.	0.2	9
119	Ultrastructural changes associated with cryopreservation of banana (Musa spp.) highly proliferating meristems. Plant Cell Reports, 2003, 21, 690-698.	5.6	73
120	The acyclic nucleoside phosphonate analogues, adefovir, tenofovir and PMEDAP, efficiently eliminate banana streak virus from banana (Musa spp.). Antiviral Research, 2003, 59, 121-126.	4.1	25
121	Cryopreservation for the elimination of cucumber mosaic and banana streak viruses from banana (Musa spp.). Plant Cell Reports, 2002, 20, 1117-1122.	5.6	134
122	DEVELOPMENT OF IN VITRO TECHNIQUES FOR ELIMINATION OF VIRUS DISEASES FROM MUSA. Acta Horticulturae, 2001, , 535-538.	0.2	7
123	CRYOPRESERVATION OF PLANT GERMPLASM. Acta Horticulturae, 2001, , 79-86.	0.2	39
124	In-field behaviour of banana plants (Musa AA sp) obtained after regeneration of cryopreserved embryogenic cell suspensions. Cryo-Letters, 2000, 21, 19-24.	0.3	12
125	COMPETENCE OF SCALPS FOR SOMATIC EMBRYOGENESIS IN MUSA. Acta Horticulturae, 1998, , 475-484.	0.2	12
126	CONSERVATION OF BANANA GERMPLASM THROUGH CRYOPRESERVATION. Acta Horticulturae, 1998, , 515-521.	0.2	5

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127	Cryopreservation of banana (Musa spp.) meristem cultures after preculture on sucrose. Plant Science, 1996, 121, 95-106.	3.6	69
128	Transient gene expression in transformed banana (Musa cv. Bluggoe) protoplasts and embryogenic cell suspensions. Euphytica, 1995, 85, 89-95.	1.2	16
129	Genetic Transformation of Banana and Plantain (Musa spp.) via Particle Bombardment. Nature Biotechnology, 1995, 13, 481-485.	17.5	138
130	Genetic Transformation in Musa Species (Banana). Biotechnology in Agriculture and Forestry, 1995, , 214-227.	0.2	3
131	Cryopreservation of Germplasm of Banana and Plantain (Musa Species). Biotechnology in Agriculture and Forestry, 1995, , 381-397.	0.2	4
132	Transient gene expression in transformed banana (Musa cv. Bluggoe) protoplasts and embryogenic cell suspensions. Developments in Plant Breeding, 1995, , 89-95.	0.2	8
133	Transient gene expression in electroporated banana (Musa spp., cv. ?Bluggoe?, ABB group) protoplasts isolated from regenerable embryogenetic cell suspensions. Plant Cell Reports, 1994, 13, 262-6.	5.6	73
134	Plant regeneration through direct somatic embryogenesis from protoplasts of banana (Musa spp.). Plant Cell Reports, 1993, 12-12, 403-407.	5.6	63
135	FREEZE-PRESERVATION OF EMBRYOGENIC MUSA SUSPENSION CULTURES. , 1992, , 183-195.		7