

# Gayle M Volk

## List of Publications by Year in descending order

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98  
papers

2,391  
citations

185998

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253896

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100  
docs citations

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times ranked

1749  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermotherapy Followed by Shoot Tip Cryotherapy Eradicates Latent Viruses and Apple Hammerhead Viroid from In Vitro Apple Rootstocks. <i>Plants</i> , 2022, 11, 582.	1.6	12
2	Micrografting: An Old Dog Plays New Tricks in Obligate Plant Pathogens. <i>Plant Disease</i> , 2022, 106, 2545-2557.	0.7	2
3	Shoot tip cryotherapy for plant pathogen eradication. <i>Plant Pathology</i> , 2022, 71, 1241-1254.	1.2	12
4	Challenges in implementing plant shoot tip cryopreservation technologies. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 144, 21-34.	1.2	52
5	Advances in cryopreservation of in vitro-derived propagules: technologies and explant sources. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 144, 7-20.	1.2	62
6	Genetic data inform Yosemite National Park's apple orchard management guidelines. <i>Plants People Planet</i> , 2021, 3, 142-154.	1.6	2
7	Optimization of in vitro germination and cryopreservation conditions for preserving date palm pollen in the USDA National Plant Germplasm System. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 144, 223-232.	1.2	11
8	Considerations for large-scale implementation of dormant budwood cryopreservation. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 144, 35-48.	1.2	14
9	Apple Genetic Resources: Diversity and Conservation. <i>Compendium of Plant Genomes</i> , 2021, , 33-45.	0.3	0
10	Genetic fingerprinting identifies apple ( <i>Malus domestica</i> Borkh.) fruit cultivars in historic orchards on public lands. <i>Genetic Resources and Crop Evolution</i> , 2021, 68, 3133-3144.	0.8	3
11	Non-Uniform Distribution of Cryoprotecting Agents in Rice Culture Cells Measured by CARS Microscopy. <i>Plants</i> , 2021, 10, 589.	1.6	4
12	Grapevine Shoot Tip Cryopreservation and Cryotherapy: Secure Storage of Disease-Free Plants. <i>Plants</i> , 2021, 10, 2190.	1.6	18
13	Integrating Genomic and Phenomic Approaches to Support Plant Genetic Resources Conservation and Use. <i>Plants</i> , 2021, 10, 2260.	1.6	15
14	Localization and Visualization of Dimethyl Sulfoxide In <i>Mentha X Piperita</i> Shoot Tips. <i>Cryobiology</i> , 2021, 103, 170.	0.3	0
15	Genetic Diversity and Domestication History in <i>Pyrus</i> . <i>Compendium of Plant Genomes</i> , 2019, , 51-62.	0.3	5
16	Cryobiotechnology: A Double-Edged Sword for Obligate Plant Pathogens. <i>Plant Disease</i> , 2019, 103, 1058-1067.	0.7	17
17	Temperate Tree Fruits of North America: <i>Malus</i> Mill., <i>Prunus</i> L., <i>Diospyros</i> L., and <i>Asimina</i> Adans. , 2019, , 353-386.		7
18	Training in Plant Genetic Resources Management: A Way Forward. <i>Crop Science</i> , 2019, 59, 853-857.	0.8	5

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19	Eradication of latent viruses from apple cultivar "Monalisa"™ shoot tips using droplet-vitrification cryotherapy. <i>Scientia Horticulturae</i> , 2019, 250, 12-18.	1.7	26
20	Development, progress and future prospects in cryobiotechnology of <i>Lilium</i> spp.. <i>Plant Methods</i> , 2019, 15, 125.	1.9	22
21	Survey Identifies Essential Plant Genetic Resources Training Program Components. <i>Crop Science</i> , 2019, 59, 2308-2316.	0.8	5
22	Chloroplast sequence data differentiate Maleae, and specifically <i>Pyrus</i> , species in the USDA-ARS National Plant Germplasm System. <i>Genetic Resources and Crop Evolution</i> , 2019, 66, 5-15.	0.8	4
23	Cryopreservation of Grapevine Shoot Tips from In Vitro Plants Using Droplet Vitrification and V Cryo-plate Techniques. , 2019, , 469-482.		2
24	Identification of Historic Homestead and Orchard Apple Cultivars in Wyoming. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2019, 54, 8-16.	0.5	7
25	Cryopreservation of 12 <i>Vitis</i> Species Using Apical Shoot Tips Derived from Plants Grown In Vitro. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2019, 54, 976-981.	0.5	27
26	Cryotherapy by encapsulation-dehydration is effective for in vitro eradication of latent viruses from "Marubakaido"™ apple rootstock. <i>Journal of Biotechnology</i> , 2018, 269, 1-7.	1.9	24
27	Cryobiotechnology of apple ( <i>Malus</i> spp.): development, progress and future prospects. <i>Plant Cell Reports</i> , 2018, 37, 689-709.	2.8	69
28	Identification of unknown apple ( <i>Malus</i> "domestica") cultivars demonstrates the impact of local breeding program on cultivar diversity. <i>Genetic Resources and Crop Evolution</i> , 2018, 65, 1317-1327.	0.8	11
29	Combining Thermo-therapy with Cryotherapy for Efficient Eradication of Apple stem grooving virus from Infected In-vitro-cultured Apple Shoots. <i>Plant Disease</i> , 2018, 102, 1574-1580.	0.7	38
30	Citrus genebank collections: international collaboration opportunities between the US and Russia. <i>Genetic Resources and Crop Evolution</i> , 2018, 65, 433-447.	0.8	10
31	Genebank Conservation of Germplasm Collected from Wild Species. , 2018, , 245-280.		5
32	Shoot tip cryotherapy for efficient eradication of grapevine leafroll-associated virus from diseased grapevine in vitro plants. <i>Annals of Applied Biology</i> , 2018, 173, 261-270.	1.3	26
33	Sustaining the Future of Plant Breeding: The Critical Role of the USDA-ARS National Plant Germplasm System. <i>Crop Science</i> , 2018, 58, 451-468.	0.8	91
34	Droplet-vitrification cryopreservation of in vitro-grown shoot tips of grapevine ( <i>Vitis</i> spp.). <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2018, 54, 590-599.	0.9	25
35	Virus infection reduces shoot proliferation of in vitro stock cultures and ability of cryopreserved shoot tips to regenerate into normal shoots in "Gala"™ apple ( <i>Malus</i> "domestica"). <i>Cryobiology</i> , 2018, 84, 52-58.	0.3	6
36	Changes in transcript expression patterns as a result of cryoprotectant treatment and liquid nitrogen exposure in <i>Arabidopsis</i> shoot tips. <i>Plant Cell Reports</i> , 2017, 36, 459-470.	2.8	12

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37	Cryopreservation of Jerusalem artichoke cultivars using an improved droplet-vitrification method. <i>Plant Cell, Tissue and Organ Culture</i> , 2017, 128, 577-587.	1.2	13
38	Cryoprotectants and components induce plasmolytic responses in sweet potato ( <i>Ipomoea batatas</i> (L.) Tj ETQq0 0,0 rgBT /Oyerlock 10	0.9	10
39	Probabilistic viability calculations for cryopreserving vegetatively propagated collections in genebanks. <i>Genetic Resources and Crop Evolution</i> , 2017, 64, 1613-1622.	0.8	21
40	Citrus cryopreservation: viability of diverse taxa and histological observations. <i>Plant Cell, Tissue and Organ Culture</i> , 2017, 128, 327-334.	1.2	26
41	Seeds capture the diversity of genetic resource collections of <i>Malus sieversii</i> maintained in an orchard. <i>Genetic Resources and Crop Evolution</i> , 2017, 64, 1513-1528.	0.8	8
42	Historic American Apple Cultivars: Identification and Availability. <i>Journal of the American Society for Horticultural Science</i> , 2016, 141, 292-301.	0.5	17
43	CRYOPRESERVATION OF CITRUS FOR LONG-TERM CONSERVATION. <i>Acta Horticulturae</i> , 2015, , 187-191.	0.1	7
44	Recovery patterns, histological observations and genetic integrity in <i>Malus</i> shoot tips cryopreserved using droplet-vitrification and encapsulation-dehydration procedures. <i>Journal of Biotechnology</i> , 2015, 214, 182-191.	1.9	42
45	Identification of a highly successful cryopreservation method (droplet-vitrification) for petunia. In <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2015, 51, 445-451.	0.9	6
46	Chloroplast heterogeneity and historical admixture within the genus <i>Malus</i> . <i>American Journal of Botany</i> , 2015, 102, 1198-1208.	0.8	36
47	The vulnerability of US apple ( <i>Malus</i> ) genetic resources. <i>Genetic Resources and Crop Evolution</i> , 2015, 62, 765-794.	0.8	74
48	Genetic diversity of <i>Malus</i> cultivars and wild relatives in the Chinese National Repository of Apple Germplasm Resources. <i>Tree Genetics and Genomes</i> , 2015, 11, 1.	0.6	30
49	Genetic diversity in <i>Malus domestica</i> ( <i>Rosaceae</i> ) through time in response to domestication. <i>American Journal of Botany</i> , 2014, 101, 1770-1779.	0.8	87
50	Potential applications of cryogenic technologies to plant genetic improvement and pathogen eradication. <i>Biotechnology Advances</i> , 2014, 32, 583-595.	6.0	75
51	Genetic relationships between wild progenitor pear ( <i>Pyrus</i> L.) species and local cultivars native to Georgia, South Caucasus. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2014, 209, 504-512.	0.6	12
52	An efficient, widely applicable cryopreservation of <i>Lilium</i> shoot tips by droplet vitrification. <i>Acta Physiologiae Plantarum</i> , 2014, 36, 1683-1692.	1.0	33
53	Cryopreservation of <i>Populus trichocarpa</i> and <i>Salix</i> dormant buds with recovery by grafting or direct rooting. <i>Cryo-Letters</i> , 2014, 35, 507-15.	0.1	2
54	The ASHS Outstanding Fruit Cultivar Award: A 25-year Retrospective. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2013, 48, 4-12.	0.5	5

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55	Malus sieversii: A Diverse Central Asian Apple Species in the USDA-ARS National Plant Germplasm System. Hortscience: A Publication of the American Society for Horticultural Science, 2013, 48, 1440-1444.	0.5	17
56	Diversity Captured in the USDA-ARS National Plant Germplasm System Apple Core Collection. Journal of the American Society for Horticultural Science, 2013, 138, 375-381.	0.5	21
57	Identification of interspecific hybrids among domesticated apple and its wild relatives. Tree Genetics and Genomes, 2012, 8, 1223-1235.	0.6	32
58	Genetic Variation and Distribution of Pacific Crabapple. Journal of the American Society for Horticultural Science, 2012, 137, 325-332.	0.5	14
59	Identification of "Duplicate" Accessions within the USDA-ARS National Plant Germplasm System Malus Collection. Journal of the American Society for Horticultural Science, 2012, 137, 333-342.	0.5	35
60	Cryopreservation of citrus shoot tips using micrografting for recovery. Cryo-Letters, 2012, 33, 418-26.	0.1	17
61	Horticultural Value of Wild Genetic Resources" Introduction to the Workshop. Hortscience: A Publication of the American Society for Horticultural Science, 2011, 46, 1436-1437.	0.5	4
62	Integration of Georeferencing, Habitat, Sampling, and Genetic Data for Documentation of Wild Plant Genetic Resources. Hortscience: A Publication of the American Society for Horticultural Science, 2011, 46, 1446-1449.	0.5	5
63	Modeling Demographics and Genetic Diversity in Ex Situ Collections during Seed Storage and Regeneration. Crop Science, 2010, 50, 2440-2447.	0.8	28
64	Application of Functional Genomics and Proteomics to Plant Cryopreservation. Current Genomics, 2010, 11, 24-29.	0.7	36
65	Standardized Plant Disease Evaluations Will Enhance Resistance Gene Discovery. Hortscience: A Publication of the American Society for Horticultural Science, 2010, 45, 1317-1320.	0.5	6
66	Advantages for the Use of Standardized Phenotyping in Databases. Hortscience: A Publication of the American Society for Horticultural Science, 2010, 45, 1310-1313.	0.5	3
67	Standardized Phenotyping: Advantages to Horticulture" Introduction to the Workshop. Hortscience: A Publication of the American Society for Horticultural Science, 2010, 45, 1306.	0.5	1
68	Selection of Stratified Core Sets Representing Wild Apple (Malus sieversii). Journal of the American Society for Horticultural Science, 2009, 134, 228-235.	0.5	34
69	Genetic diversity and population structure in Malus sieversii, a wild progenitor species of domesticated apple. Tree Genetics and Genomes, 2009, 5, 339-347.	0.6	117
70	Variation in Low-temperature Exotherms of Pecan Cultivar Dormant Twigs. Hortscience: A Publication of the American Society for Horticultural Science, 2009, 44, 317-321.	0.5	8
71	Novel Diversity Identified in a Wild Apple Population from the Kyrgyz Republic. Hortscience: A Publication of the American Society for Horticultural Science, 2009, 44, 516-518.	0.5	11
72	Identification of Historic Apple Trees in the Southwestern United States and Implications for Conservation. Hortscience: A Publication of the American Society for Horticultural Science, 2009, 44, 589-594.	0.5	19

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73	Phenotypic Characteristics of Ten Garlic Cultivars Grown at Different North American Locations. Hortscience: A Publication of the American Society for Horticultural Science, 2009, 44, 1238-1247.	0.5	40
74	Capturing the Diversity of Wild Malus orientalis from Georgia, Armenia, Russia, and Turkey. Journal of the American Society for Horticultural Science, 2009, 134, 453-459.	0.5	26
75	Genebanks in the post-genomic age: Emerging roles and anticipated uses. Biodiversity, 2008, 9, 68-71.	0.5	22
76	Availability of Genotypic Data for USDA-ARS National Plant Germplasm System Accessions Using the Genetic Resources Information Network (GRIN) Database. Hortscience: A Publication of the American Society for Horticultural Science, 2008, 43, 1365-1366.	0.5	24
77	Genetic Diversity and Disease Resistance of Wild Malus orientalis from Turkey and Southern Russia. Journal of the American Society for Horticultural Science, 2008, 133, 383-389.	0.5	35
78	Hydration of Cuphea seeds containing crystallised triacylglycerols. Functional Plant Biology, 2007, 34, 360.	1.1	2
79	Probabilistic Models for Collecting Genetic Diversity: Comparisons, Caveats, and Limitations. Crop Science, 2007, 47, 861-866.	0.8	24
80	Plasmolysis and recovery of different cell types in cryoprotected shoot tips of Mentha <i>Ã</i> – piperita. Protoplasma, 2007, 231, 215-226.	1.0	40
81	Plant vitrification solution 2 lowers water content and alters freezing behavior in shoot tips during cryoprotection. Cryobiology, 2006, 52, 48-61.	0.3	130
82	Survival of mint shoot tips after exposure to cryoprotectant solution components. Cryobiology, 2006, 52, 305-308.	0.3	55
83	Massive cellular disruption occurs during early imbibition of Cuphea seeds containing crystallized triacylglycerols. Planta, 2006, 224, 1415-1426.	1.6	38
84	Diversity of Wild Pyrus communis Based on Microsatellite Analyses. Journal of the American Society for Horticultural Science, 2006, 131, 408-417.	0.5	48
85	(274) Genetic Diversity of Wild Pyrus communis L.. Hortscience: A Publication of the American Society for Horticultural Science, 2006, 41, 1035D-1036.	0.5	0
86	Implementation of garlic cryopreservation techniques in the national plant germplasm system. Cryo-Letters, 2006, 27, 99-106.	0.1	14
87	Cryopreservation of Arabidopsis thaliana shoot tips. Cryo-Letters, 2006, 27, 353-60.	0.1	6
88	Ex Situ Conservation of Vegetatively Propagated Species: Development of a Seed-based Core Collection for Malus sieversii. Journal of the American Society for Horticultural Science, 2005, 130, 203-210.	0.5	79
89	(19) Cryopreservation of Arabidopsisthaliana Shoot Tips. Hortscience: A Publication of the American Society for Horticultural Science, 2005, 40, 1067E-1067.	0.5	0
90	Calcium Channels are Involved in Calcium Oxalate Crystal Formation in Specialized Cells of Pistia stratiotes L.. Annals of Botany, 2004, 93, 741-753.	1.4	31

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91	Low-temperature Storage of Garlic for Spring Planting. Hortscience: A Publication of the American Society for Horticultural Science, 2004, 39, 571-573.	0.5	16
92	Genetic Diversity among U.S. Garlic Clones as Detected Using AFLP Methods. Journal of the American Society for Horticultural Science, 2004, 129, 559-569.	0.5	76
93	Cryopreservation of garlic ( <i>allium sativum</i> L.) using plant vitrification solution 2. Cryo-Letters, 2004, 25, 219-26.	0.1	14
94	Galactinol Synthase Gene Expression in Melon. Journal of the American Society for Horticultural Science, 2003, 128, 8-15.	0.5	30
95	Localization of a calcium channel-like protein in the sieve element plasma membrane. Functional Plant Biology, 2000, 27, 779.	1.1	9
96	Secondary plasmodesmata formation in the minor-vein phloem of <i>Cucumis melo</i> L. and <i>Cucurbita pepo</i> L.. Planta, 1996, 199, 425.	1.6	64
97	Photoperiod Shift Effects on Yield Characteristics of Rice. Crop Science, 1995, 35, 1631-1635.	0.8	4
98	EVALUATION OF STRAWBERRY ( <i>FRAGARIA</i> SP.) SEEDLINGS FOR DROUGHT AND SALT TOLERANCE BY IN VITRO INDUCED STRESSES.. Hortscience: A Publication of the American Society for Horticultural Science, 1990, 25, 1113f-1113.	0.5	0