Mary Ruth McDonald

List of Publications by Year in descending order

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201674 276875 130 2,398 27 41 citations g-index h-index papers 131 131 131 1397 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Virulence and pathotype classification of <i>Plasmodiophora brassicae</i> populations collected from clubroot resistant canola (<i>Brassica napus</i>) in Canada. Canadian Journal of Plant Pathology, 2018, 40, 284-298.	1.4	125
2	Crop rotation, cultivar resistance, and fungicides/biofungicides for managing clubroot (<i>Plasmodiophora brassicae</i>) on canola. Canadian Journal of Plant Pathology, 2014, 36, 99-112.	1.4	102
3	Evidence that the Biofungicide Serenade (<i>Bacillus subtilis</i>) Suppresses Clubroot on Canola via Antibiosis and Induced Host Resistance. Phytopathology, 2013, 103, 245-254.	2.2	99
4	Potential biological control of clubroot on canola and crucifer vegetable crops. Plant Pathology, 2011, 60, 566-574.	2.4	93
5	Fine Mapping of a Clubroot Resistance Gene in Chinese Cabbage Using SNP Markers Identified from Bulked Segregant RNA Sequencing. Frontiers in Plant Science, 2017, 8, 1448.	3.6	82
6	Identification of Genome-Wide Variants and Discovery of Variants Associated with Brassica rapa Clubroot Resistance Gene Rcr1 through Bulked Segregant RNA Sequencing. PLoS ONE, 2016, 11, e0153218.	2.5	78
7	Effect of Temperature on Cortical Infection by <i>Plasmodiophora brassicae</i> and Clubroot Severity. Phytopathology, 2011, 101, 1424-1432.	2.2	58
8	Sclerotinia Rot of Carrot: An Example of Phenological Adaptation and Bicyclic Development by Sclerotinia Sclerotiorum. Plant Disease, 2003, 87, 456-470.	1.4	57
9	Epidemiology of sclerotinia rot of carrot caused by <i>Sclerotinia sclerotiorum</i> . Canadian Journal of Plant Pathology, 2005, 27, 245-258.	1.4	53
10	Effect of temperature on primary infection by <i>Plasmodiophora brassicae</i> and initiation of clubroot symptoms. Plant Pathology, 2011, 60, 830-838.	2.4	52
11	Infection and development of <i>Plasmodiophora brassicae </i> in resistant and susceptible canola cultivars. Canadian Journal of Plant Pathology, 2012, 34, 239-247.	1.4	50
12	The Role of Primary and Secondary Infection in Host Response to Plasmodiophora brassicae. Phytopathology, 2014, 104, 1078-1087.	2.2	49
13	Impact of high air temperatures on Brassicacae crops in southern Ontario. Canadian Journal of Plant Science, 2006, 86, 1209-1215.	0.9	48
14	Effect of environmental parameters on clubroot development and the risk of pathogen spread. Canadian Journal of Plant Pathology, 2014, 36, 37-48.	1.4	47
15	Mechanisms of the biofungicide Serenade (Bacillus subtilisQST713) in suppressing clubroot. Biocontrol Science and Technology, 2011, 21, 1351-1362.	1.3	44
16	Long-term marketable yields of horticultural crops in southern Ontario in relation to seasonal climate. Canadian Journal of Plant Science, 2005, 85, 431-438.	0.9	42
17	Effects of temperature on infection and subsequent development of clubroot under controlled conditions. Plant Pathology, 2012, 61, 593-599.	2.4	37
18	Cytology of infection, development and expression of resistance to <i>Plasmodiophora brassicae</i> in canola. Annals of Applied Biology, 2013, 163, 56-71.	2.5	37

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19	Spread ofPlasmodiophora brassicaeon canola in Canada, 2003–2014: Old pathogen, new home. Canadian Journal of Plant Pathology, 2015, 37, 403-413.	1.4	37
20	Assessment of Chlorophyll and Nitrate Meters as Field Tissue Nitrogen Tests for Cabbage, Onions, and Carrots. HortTechnology, 2004, 14, 179-188.	0.9	34
21	A Multiplex qPCR Assay for Detection and Quantification of <i>Plasmodiophora brassicae</i> in Soil. Plant Disease, 2015, 99, 1002-1009.	1.4	33
22	Long-term climate and weather patterns in relation to crop yield: a minireview. Canadian Journal of Botany, 2006, 84, 1031-1036.	1.1	32
23	Interaction of pH and temperature affect infection and symptom development of <i>Plasmodiophora brassicae </i> in canola. Canadian Journal of Plant Pathology, 2013, 35, 294-303.	1.4	32
24	Forecasting diseases caused by <i>Sclerotinia </i> spp. in eastern Canada: fact or fiction?. Canadian Journal of Plant Pathology, 2004, 26, 480-488.	1.4	30
25	Propidium Monoazide Improves Quantification of Resting Spores of <i>Plasmodiophora brassicae</i> with qPCR. Plant Disease, 2017, 101, 442-447.	1.4	29
26	Boron reduces development of clubroot in canola. Canadian Journal of Plant Pathology, 2011, 33, 475-484.	1.4	28
27	Whole-genome DNA similarity and population structure of Plasmodiophora brassicae strains from Canada. BMC Genomics, 2019, 20, 744.	2.8	28
28	A comparison of clubroot development and management on canola and Brassica vegetables. Canadian Journal of Plant Pathology, 2013, 35, 175-191.	1.4	27
29	How Well Do Critical Nitrogen Concentrations Work for Cabbage, Carrot, and Onion Crops?. Hortscience: A Publication of the American Society for Hortcultural Science, 2003, 38, 1122-1128.	1.0	27
30	Improving spray retention to enhance the efficacy of foliar-applied disease- and pest-management products in field and row crops. Canadian Journal of Plant Pathology, 2008, 30, 505-516.	1.4	26
31	CHLOROPHYLL AND NITRATE METERS AS NITROGEN MONITORING TOOLS FOR SELECTED VEGETABLES IN SOUTHERN ONTARIO. Acta Horticulturae, 2003, , 259-266.	0.2	24
32	Management of Botrytis Leaf Blight of Onion: The Québec Experience of 20 Years of Continual Improvement. Plant Disease, 2011, 95, 504-514.	1.4	23
33	Effect of seeding date on development of clubroot in short-season Brassica crops. Canadian Journal of Plant Pathology, 2012, 34, 516-523.	1.4	23
34	Recent changes in fungicide use and the fungicide insensitivity of plant pathogens in Canada. Canadian Journal of Plant Pathology, 2014, 36, 327-340.	1.4	23
35	The Effect of Anthocyanin-Rich Purple Vegetable Diets on Metabolic Syndrome in Obese Zucker Rats. Journal of Medicinal Food, 2017, 20, 1240-1249.	1.5	23
36	Evaluation of Air Sampling and Detection Methods to Quantify Airborne Ascospores of <i>Sclerotinia sclerotiorum</i> . Plant Disease, 2014, 98, 32-42.	1.4	22

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37	Comparison of techniques for estimation of resting spores of Plasmodiophora brassicaein soil. Plant Pathology, 2019, 68, 954-961.	2.4	22
38	MANAGEMENT OF CLUBROOT OF ASIAN BRASSICA CROPS GROWN ON ORGANIC SOILS. Acta Horticulturae, 2004, , 25-30.	0.2	21
39	Lateral Clipping of Canopy Influences the Microclimate and Development of Apothecia of Sclerotinia sclerotiorum in Carrots. Plant Disease, 2005, 89, 549-557.	1.4	21
40	Consistency of long-term marketable yield of carrot and onion cultivars in muck (organic) soil in relation to seasonal weather. Canadian Journal of Plant Science, 2010, 90, 755-765.	0.9	20
41	Development and validation of a disease forecast model for Sclerotinia rot of carrot. Canadian Journal of Plant Pathology, 2011, 33, 187-201.	1.4	20
42	Carrot Yield, Quality, and Storability in Relation to Preplant and Residual Nitrogen on Mineral and Organic Soils. HortTechnology, 2006, 16, 286-293.	0.9	20
43	First report of clubroot (<i>Plasmodiophora brassicae</i>) on canola in Ontario. Canadian Journal of Plant Pathology, 2018, 40, 96-99.	1.4	19
44	Temperature Prior to Harvest Influences the Incidence and Severity of Clubroot on Two Asian Brassica Vegetables. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 1509-1513.	1.0	19
45	Effect of soil type, organic matter content, bulk density and saturation on clubroot severity and biofungicide efficacy. Plant Pathology, 2016, 65, 1238-1245.	2.4	18
46	Management of Allium white rot [Sclerotium cepivorum] in onions on organic soil with soil-applied diallyl disulfide and di-N-propyl disulfide. Canadian Journal of Plant Pathology, 2002, 24, 281-286.	1.4	17
47	Using crop canopy modification to manage plant diseases. European Journal of Plant Pathology, 2013, 135, 581-593.	1.7	17
48	Susceptibility to <i>Stemphylium vesicarium</i> of asparagus, onion, pear, and rye in Canada. Canadian Journal of Plant Pathology, 2019, 41, 228-241.	1.4	17
49	Seasonal Nitrogen Partitioning and Nitrogen Uptake of Carrots as Affected by Nitrogen Application in a Mineral and an Organic Soil. Hortscience: A Publication of the American Society for Hortcultural Science, 2006, 41, 1332-1338.	1.0	17
50	Interactions among isolates and mycelial compatibility groups of <i>Sclerotium cepivorum </i> and cultivars of onion (<i>Allum cepa </i>). Canadian Journal of Plant Pathology, 2000, 22, 387-391.	1.4	16
51	Stemphylium Leaf Blight: A Re-Emerging Threat to Onion Production in Eastern North America. Plant Disease, 2021, 105, 3780-3794.	1.4	16
52	OPTIMUM NITROGEN FERTILIZATION OF SUMMER CABBAGE IN ONTARIO. Acta Horticulturae, 2003, , 211-215.	0.2	15
53	Occurrence of fungal pathogens of carrots on wooden boxes used for storage. Plant Pathology, 2005, 54, 665-670.	2.4	15
54	Effects of <i>Glomus intraradices </i> and onion cultivar on <i>Allium </i> white rot development in organic soils in Ontario. Canadian Journal of Plant Pathology, 2008, 30, 543-553.	1.4	15

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55	Reaction of Lines of the Rapid Cycling Brassica Collection and <i>Arabidopsis thaliana</i> to Four Pathotypes of <i>Plasmodiophora brassicae</i> Plant Disease, 2013, 97, 720-727.	1.4	15
56	Distribution of nitrogen uptake, fibrous roots and nitrogen in the soil profile for fresh-market and processing carrot cultivars. Canadian Journal of Plant Science, 2006, 86, 1227-1237.	0.9	14
57	Influence of cultivar and year on phytochemical and antioxidant activity of potato (Solanum) Tj ETQq $1\ 1\ 0.78431$	l4 rgBT /C	verlock 10 T
58	Proteomic Profiles of Adipose and Liver Tissues from an Animal Model of Metabolic Syndrome Fed Purple Vegetables. Nutrients, 2018, 10, 456.	4.1	14
59	ASSESSMENT OF CROP ROTATION, CULTIVAR RESISTANCE AND BACILLUS SUBTILIS BIOFUNGICIDE FOR CONTROL OF CLUBROOT ON CANOLA. Acta Horticulturae, 2013, , 591-598.	0.2	13
60	First Report of Downy Mildew Caused by <i>Peronospora belbahrii</i> on Basil (<i>Ocimum</i> spp.) in Ontario. Plant Disease, 2013, 97, 1248-1248.	1.4	13
61	Nitrogen utilization timeline of carrot over the growing season. Canadian Journal of Plant Science, 2007, 87, 587-592.	0.9	12
62	Establishment of Critical Sap and Soil Nitrate Concentrations using a Cardy Nitrate Meter for Two Carrot Cultivars Grown on Organic and Mineral Soil. Communications in Soil Science and Plant Analysis, 2007, 38, 1911-1925.	1.4	11
63	Cortical Colonization by Plasmodiophora brassicae in Susceptible and Resistant Cabbage Cultivars. European Journal of Plant Pathology, 2014, 140, 859-862.	1.7	11
64	Vertical distribution of resting spores of Plasmodiophora brassicae in soil. European Journal of Plant Pathology, 2017, 149, 435-442.	1.7	11
65	Relationship Between Nitrogen Fertilization and Cercospora Leaf Spot and Alternaria Leaf Blight of Carrot. Hortscience: A Publication of the American Society for Hortcultural Science, 2008, 43, 1522-1527.	1.0	11
66	Assessing new chemical control options for the carrot weevil (Listronotus oregonensis) and carrot rust fly (Psila rosae) in Ontario. Crop Protection, 2018, 109, 86-94.	2.1	10
67	New technologies could enhance natural biological control and disease management and reduce reliance on synthetic pesticides. Canadian Journal of Plant Pathology, 2020, 42, 30-40.	1.4	10
68	First Report of <i>Iris yellow spot virus</i> on Onion in Canada. Plant Disease, 2008, 92, 318-318.	1.4	10
69	Effect of Host Resistance and Fungicide Application on Clubroot Pathotype 6 in Green Cabbage and Napa Cabbage. HortTechnology, 2012, 22, 311-319.	0.9	10
70	Management of Diseases of Onions and Garlic. , 2004, , 149-200.		9
71	<i>S-</i> Alk(en)yl- <scp>I</scp> -cysteine Sulfoxides and Relative Pungency Measurements of Photosynthetic and Nonphotosynthetic Tissues of <i>Allium porrum</i> . Journal of Agricultural and Food Chemistry, 2007, 55, 8243-8250.	5.2	9
72	Effect of Foliar Trimming and Fungicides on Apothecial Number of <i>Sclerotinia sclerotiorum</i> , Leaf Blight Severity, Yield, and Canopy Microclimate in Carrot. Plant Disease, 2008, 92, 132-136.	1.4	9

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73	Insecticide and Fungicide Combinations to Optimize Control of Onion Maggot (Delia antiqua) and Onion Smut (Urocystis cepulae) in Ontario. International Journal of Vegetable Science, 2004, 9, 49-63.	0.2	8
74	First Report of the Carrot Cyst Nematode (<i>Heterodera carotae</i>) From Carrot Fields in Ontario, Canada. Plant Disease, 2017, 101, 1056-1056.	1.4	8
75	Development of Plasmodiophora brassicae in the root cortex of cabbage over time. European Journal of Plant Pathology, 2019, 154, 727-737.	1.7	8
76	Fungicide efficacy and timing for the management of <i>Stemphylium vesicarium</i> on onion. Canadian Journal of Plant Pathology, 2021, 43, 275-287.	1.4	8
77	Overwintering Ability ofLiriomyza huidobrensis(Blanchard) (Diptera: Agromyzidae) in Southern Ontario, Canada. Environmental Entomology, 2005, 34, 743-747.	1.4	7
78	Disease progression of Sclerotinia rot of carrot, caused by <i>Sclerotinia sclerotiorum </i> , from shoot to root before and after harvest. Canadian Journal of Plant Pathology, 2008, 30, 206-213.	1.4	7
79	Effect of boron on clubroot of canola in organic and mineral soils and on residual toxicity to rotational crops. Canadian Journal of Plant Science, 2014, 94, 109-118.	0.9	7
80	The Impact of the Carrot Rust Fly and Carrot Weevil Integrated Pest Management Program on the Ground-Dwelling Beetle Complex in Commercial Carrot Fields at the Holland Marsh, Ontario, Canada. Environmental Entomology, 2018, 47, 788-794.	1.4	7
81	Evaluation of wood biochar and compost soil amendment on cabbage yield and quality. Canadian Journal of Plant Science, 2019, 99, 624-638.	0.9	7
82	The Role of Ascospores and Conidia, in Relation to Weather Variables, in the Epidemiology of Stemphylium Leaf Blight of Onion. Plant Disease, 2021, 105, 1912-1918.	1.4	7
83	High Tunnels Can Promote Growth, Yield, and Fruit Quality of Organic Bitter Melons (Momordica) Tj ETQq1 1 0.7 American Society for Hortcultural Science, 2017, 52, 65-71.	784314 rg 1.0	BT /Overlock 6
84	Risk assessment of secondary metabolites produced by fungi in the genus <i>Stemphylium</i> . Canadian Journal of Microbiology, 2021, 67, 445-450.	1.7	6
85	New Progress in the Integrated Management of Sclerotinia Rot of Carrot. , 2008, , 243-270.		6
86	025 Pea Leafminer, a New Pest of Leafy Vegetables in Ontario, Canada. Hortscience: A Publication of the American Society for Hortcultural Science, 2000, 35, 392C-392.	1.0	6
87	Reaction to Plasmodiophora brassicae Pathotype 6 in Lines of Brassica Vegetables, Wisconsin Fast Plants, and Canola. Hortscience: A Publication of the American Society for Hortcultural Science, 2012, 47, 374-377.	1.0	6
88	COOL SEASON CROP PRODUCTION TRENDS: A POSSIBLE SIGNAL FOR GLOBAL WARMING. Acta Horticulturae, 2004, , 241-248.	0.2	5
89	Evaluation of disease forecasting programs for management of septoria late blight (<i>Septoria) Tj ETQq1 1 0.78</i>	34314 rgB 1.4	Г/gverlock 1
90	Field evaluation of weather-based spray programs for the control of downy mildew of lettuce (<i>Lactuca sativa</i>), caused by <i>Bremia lactucae</i> , in Quebec and Ontario. Canadian Journal of Plant Pathology, 2007, 29, 9-17.	1.4	5

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91	Significance of seed infection on epidemics of mycosphaerella blight in field pea. Canadian Journal of Plant Pathology, 2010, 32, 458-467.	1.4	5
92	Incidence and Severity of Cavity Spot of Carrot as Affected by Pigmentation, Temperature, and Rainfall. Plant Disease, 2014, 98, 929-936.	1.4	5
93	Oviposition, Feeding Preferences and Distribution of Delia Species (Diptera: Anthomyiidae) in Eastern Canadian Onions. Insects, 2020, 11, 780.	2.2	5
94	Race 2 of Fusarium oxysporum f. sp. apii New to Ontario. Plant Disease, 1989, 73, 859.	1.4	5
95	ONION SEED TREATMENT AND COATING TECHNOLOGIES. Acta Horticulturae, 2008, , 129-134.	0.2	4
96	Reaction of selected Brassica vegetable crops to Canadian pathotypes of <i>Plasmodiophora brassicae </i> . Canadian Journal of Plant Pathology, 2013, 35, 371-383.	1.4	4
97	Suppression of clubroot by dazomet fumigant. Canadian Journal of Plant Science, 0, , .	0.9	4
98	Evaluation of the TOM-CAST Forecasting Model in Asparagus for Management of Stemphylium Leaf Spot in Ontario, Canada. Plant Disease, 2018, 102, 2253-2257.	1.4	4
99	Maturation of resting spores of Plasmodiophora brassicae continues after host cell death. Plant Pathology, 2020, 69, 310-319.	2.4	4
100	Changes in the range and virulence of <i>Plasmodiophora brassicae</i> across Canada. Canadian Journal of Plant Pathology, 2021, 43, 304-310.	1.4	4
101	Clubroot resistance in canola and brassica vegetable cultivars in Ontario, Canada. Canadian Journal of Plant Science, 2021, 101, 730-740.	0.9	4
102	Soil amendments and fumigation for the management of Fusarium wilt of bunching spinach in Ontario, Canada. Crop Protection, 2021, 145, 105646.	2.1	4
103	First Report of Foliar and Root Infection of Carrot by Sclerotinia minor in Ontario, Canada. Plant Disease, 2002, 86, 1406-1406.	1.4	4
104	Advances in conventional methods of disease management. Canadian Journal of Plant Pathology, 2006, 28, S239-S246.	1.4	3
105	Metabolic cost of resistance in clubroot-resistant canola and napa cabbage. Canadian Journal of Plant Pathology, 2017, 39, 25-36.	1.4	3
106	Vegetables and Climate Change. Agronomy, 0, , 327-341.	0.2	3
107	Effect of Nitrogen Rate and Residual Soil Nitrogen on Yield and Quality of Carrots. Hortscience: A Publication of the American Society for Hortcultural Science, 2004, 39, 795B-795.	1.0	3
108	LEAF PHOTOSYNTHESIS AND TRANSPIRATION OF TWO LEEK CULTIVARS WITH DIFFERING PSEUDOSTEM PUNGENCY LEVELS. Acta Horticulturae, 2004, , 51-57.	0.2	3

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109	Human vs. Machine, the Eyes Have It. Assessment of Stemphylium Leaf Blight on Onion Using Aerial Photographs from an NIR Camera. Remote Sensing, 2022, 14, 293.	4.0	3
110	Assessment of a Nitrate Meter for Nitrogen Tests in Mineral and Organic Soils. International Journal of Vegetable Science, 2006, 11, 17-32.	0.2	2
111	Assessment of spatial distribution of ascospores of <i>Sclerotinia sclerotiorum </i> for regional disease forecasting in carrots. Canadian Journal of Plant Pathology, 2014, 36, 438-446.	1.4	2
112	Interaction of solarization, fumigation, and totally impermeable film for the management of clubroot (<i>Plasmodiophora brassicae</i>) on brassica crops. Acta Horticulturae, 2020, , 153-160.	0.2	2
113	Entomopathogenic nematodes for control of carrot weevil: efficacy and longevity in muck and mineral soils. Pest Management Science, 2021, 77, 2433-2443.	3.4	2
114	<i>Ditylenchus dipsaci</i> and <i>Fusarium oxysporum</i> on garlic: one plus one does not equal two. Canadian Journal of Plant Pathology, 2021, 43, 749-759.	1.4	2
115	Grasses and field crops reduce the concentration of resting spores of <i>Plasmodiophora brassicae</i> in soil under controlled conditions. Plant Pathology, 2022, 71, 1793-1800.	2.4	2
116	Weather thresholds for clubroot development on canola and brassica vegetables. Canadian Journal of Plant Pathology, 2017, 39, 475-485.	1.4	1
117	Evaluating the current integrated pest management recommendations in Canada for carrot weevil (Coleoptera: Curculionidae) and carrot rust fly (Diptera: Psilidae). Canadian Entomologist, 2019, 151, 391-405.	0.8	1
118	Seed treatment of canola (Brassica napus) with the endomycorrhizal fungus Piriformospora indica does not reduce clubroot. Canadian Journal of Plant Science, 2021, 101, 408-411.	0.9	1
119	Optimizing methods to sample and quantify stem and bulb nematode, Ditylenchus dipsaci, in garlic, Allium sativum, field soil. Canadian Journal of Plant Pathology, 0, , 1-7.	1.4	1
120	EFFICACY TESTING OF ONION SEED TREATMENTS IN THE GREENHOUSE AND FIELD. Acta Horticulturae, 2004, , 87-93.	0.2	1
121	(219) Nitrogen Relationships to Yield and Quality of Carrots Grown on Mineral and Organic Soil in Ontario. Hortscience: A Publication of the American Society for Hortcultural Science, 2005, 40, 1073D-1073.	1.0	1
122	Long-term Yield of Horticultural Crops in Wisconsin in Relation to Seasonal Climate in Comparison with Southern Ontario, Canada. Hortscience: A Publication of the American Society for Hortcultural Science, 2013, 48, 863-869.	1.0	1
123	Nitrogen and Fungicide Applications for the Management of Fungal Blights of Carrot. Hortscience: A Publication of the American Society for Hortcultural Science, 2014, 49, 608-614.	1.0	1
124	280 Production of Carrots Suitable for Cut-and-peel Processing in Ontario, Canada. Hortscience: A Publication of the American Society for Hortcultural Science, 2000, 35, 439D-439.	1.0	0
125	Crop Diversification In Ontario: Adaptation of Annual Globe Artichokes. Hortscience: A Publication of the American Society for Hortcultural Science, 2004, 39, 802B-802.	1.0	0
126	Crop Diversification in Ontario: Adaptation of Chives. Hortscience: A Publication of the American Society for Hortcultural Science, 2004, 39, 780A-780.	1.0	0

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127	(258) Differential Response of Colored Carrots to Cavity Spot. Hortscience: A Publication of the American Society for Hortcultural Science, 2005, 40, 1089C-1089.	1.0	0
128	Evaluation of Onion Lines for Resistance to Onion White Rot and Onion Maggot. Hortscience: A Publication of the American Society for Hortcultural Science, 1995, 30, 830G-831.	1.0	0
129	Screening Onion Lines for Resistance to Sclerotium cepivorumBerk. using Field and Onion Scale Assessments. Hortscience: A Publication of the American Society for Hortcultural Science, 1997, 32, 4698-469.	1.0	0
130	Sustainable carrot production. Burleigh Dodds Series in Agricultural Science, 2019, , 437-458.	0.2	0