

# Moritz Knoche

## List of Publications by Year in descending order

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137  
papers

3,409  
citations

147801

31  
h-index

189892

50  
g-index

140  
all docs

140  
docs citations

140  
times ranked

1618  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of droplet size and carrier volume on performance of foliage-applied herbicides. <i>Crop Protection</i> , 1994, 13, 163-178.	2.1	203
2	Composition of the cuticle of developing sweet cherry fruit. <i>Phytochemistry</i> , 2007, 68, 1017-1025.	2.9	142
3	Organosilicone surfactant performance in agricultural spray application: a review. <i>Weed Research</i> , 1994, 34, 221-239.	1.7	94
4	Studies on water transport through the sweet cherry fruit surface: characterizing conductance of the cuticular membrane using pericarp segments. <i>Planta</i> , 2000, 212, 127-135.	3.2	88
5	Analysing fruit shape in sweet cherry ( <i>Prunus avium</i> L.). <i>Scientia Horticulturae</i> , 2002, 96, 139-150.	3.6	87
6	Changes in strain and deposition of cuticle in developing sweet cherry fruit. <i>Physiologia Plantarum</i> , 2004, 120, 667-677.	5.2	83
7	Transcriptional dynamics of the developing sweet cherry ( <i>Prunus avium</i> L.) fruit: sequencing, annotation and expression profiling of exocarp-associated genes. <i>Horticulture Research</i> , 2014, 1, 11.	6.3	82
8	Water on the Surface Aggravates Microscopic Cracking of the Sweet Cherry Fruit Cuticle. <i>Journal of the American Society for Horticultural Science</i> , 2006, 131, 192-200.	1.0	76
9	Identification of putative candidate genes involved in cuticle formation in <i>Prunus avium</i> (sweet) Tj ETQq1 1 0.784314 rgBT /Overlock	2.9	74
10	Russetting in apple and pear: a plastic periderm replaces a stiff cuticle. <i>AoB PLANTS</i> , 2013, 5, pls048-pls048.	2.3	74
11	Characterization of Microcracks in the Cuticle of Developing Sweet Cherry Fruit. <i>Journal of the American Society for Horticultural Science</i> , 2005, 130, 487-495.	1.0	73
12	Performance and stability of the organosilicon surfactant L-77: effect of pH, concentration, and temperature. <i>Journal of Agricultural and Food Chemistry</i> , 1991, 39, 202-206.	5.2	72
13	Studies on water transport through the sweet cherry fruit surface: II. Conductance of the cuticle in relation to fruit development. <i>Planta</i> , 2001, 213, 927-936.	3.2	72
14	Ongoing Growth Challenges Fruit Skin Integrity. <i>Critical Reviews in Plant Sciences</i> , 2017, 36, 190-215.	5.7	68
15	Russetting and Microcracking of "Golden Delicious"™ Apple Fruit Concomitantly Decline Due to Gibberellin A4+7 Application. <i>Journal of the American Society for Horticultural Science</i> , 2011, 136, 159-164.	1.0	67
16	Mechanical properties of cuticles and their primary determinants. <i>Journal of Experimental Botany</i> , 2017, 68, 5351-5367.	4.8	63
17	Intracuticular wax fixes and restricts strain in leaf and fruit cuticles. <i>New Phytologist</i> , 2013, 200, 134-143.	7.3	60
18	Surface characteristics of sweet cherry fruit: stomata-number, distribution, functionality and surface wetting. <i>Scientia Horticulturae</i> , 2003, 97, 265-278.	3.6	57

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19	Calcium and the physiology of sweet cherries: A review. <i>Scientia Horticulturae</i> , 2019, 245, 107-115.	3.6	57
20	Studies on water transport through the sweet cherry fruit surface: IX. Comparing permeability in water uptake and transpiration. <i>Planta</i> , 2005, 220, 474-485.	3.2	54
21	Xylem, phloem, and transpiration flows in developing sweet cherry fruit. <i>Trees - Structure and Function</i> , 2016, 30, 1821-1830.	1.9	52
22	Cell wall swelling, fracture mode, and the mechanical properties of cherry fruit skins are closely related. <i>Planta</i> , 2017, 245, 765-777.	3.2	52
23	Surface Moisture Induces Microcracks in the Cuticle of "Golden Delicious" Apple. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2008, 43, 1929-1931.	1.0	48
24	Evidence for Surfactant Solubilization of Plant Epicuticular Wax. <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 1809-1816.	5.2	43
25	Fruit growth, cuticle deposition, water uptake, and fruit cracking in jostaberry, gooseberry, and black currant. <i>Scientia Horticulturae</i> , 2011, 128, 289-296.	3.6	38
26	Studies on Water Transport Through the Sweet Cherry Fruit Surface: IV. Regions of Preferential Uptake. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2002, 37, 637-641.	1.0	35
27	Structural and physiological changes associated with the skin spot disorder in apple. <i>Postharvest Biology and Technology</i> , 2012, 64, 111-118.	6.0	33
28	Studies on Water Transport through the Sweet Cherry Fruit Surface: V. Conductance for Water Uptake. <i>Journal of the American Society for Horticultural Science</i> , 2002, 127, 325-332.	1.0	33
29	Mature Sweet Cherries Have Low Turgor. <i>Journal of the American Society for Horticultural Science</i> , 2014, 139, 3-12.	1.0	33
30	Physical rupture of the xylem in developing sweet cherry fruit causes progressive decline in xylem sap inflow rate. <i>Planta</i> , 2017, 246, 659-672.	3.2	32
31	Deposition and Strain of the Cuticle of Developing European Plum Fruit. <i>Journal of the American Society for Horticultural Science</i> , 2007, 132, 597-602.	1.0	32
32	Water Potential and Its Components in Developing Sweet Cherry. <i>Journal of the American Society for Horticultural Science</i> , 2014, 139, 349-355.	1.0	32
33	Mechanical Properties of Skins of Sweet Cherry Fruit of Differing Susceptibilities to Cracking. <i>Journal of the American Society for Horticultural Science</i> , 2016, 141, 162-168.	1.0	32
34	Evidence for a radial strain gradient in apple fruit cuticles. <i>Planta</i> , 2014, 240, 891-897.	3.2	31
35	Rain Cracking in Sweet Cherries is not Due to Excess Water Uptake but to Localized Skin Phenomena. <i>Journal of the American Society for Horticultural Science</i> , 2016, 141, 653-660.	1.0	31
36	Mismatch between cuticle deposition and area expansion in fruit skins allows potentially catastrophic buildup of elastic strain. <i>Planta</i> , 2016, 244, 1145-1156.	3.2	31

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37	Stress and Strain in the Sweet Cherry Skin. <i>Journal of the American Society for Horticultural Science</i> , 2012, 137, 383-390.	1.0	31
38	Surfactant-induced phytotoxicity: evidence for interaction with epicuticular wax fine structure. <i>Crop Protection</i> , 1992, 11, 51-56.	2.1	30
39	Crack initiation and propagation in sweet cherry skin: A simple chain reaction causes the crack to run. <i>PLoS ONE</i> , 2019, 14, e0219794.	2.5	30
40	Malic Acid Promotes Cracking of Sweet Cherry Fruit. <i>Journal of the American Society for Horticultural Science</i> , 2015, 140, 280-287.	1.0	29
41	Studies on octylphenoxy surfactants: XI. Effect on NAA diffusion through the isolated tomato fruit cuticular membrane. <i>Pest Management Science</i> , 1993, 38, 211-217.	0.4	28
42	Water Movement through the Surfaces of the Grape Berry and Its Stem. <i>American Journal of Enology and Viticulture</i> , 2011, 62, 340-350.	1.7	28
43	Biaxial tensile tests identify epidermis and hypodermis as the main structural elements of sweet cherry skin. <i>AoB PLANTS</i> , 2014, 6, .	2.3	26
44	Mechanical Properties of Apple Skin Are Determined by Epidermis and Hypodermis. <i>Journal of the American Society for Horticultural Science</i> , 2014, 139, 139-147.	1.0	26
45	Studies on Water Transport through the Sweet Cherry Fruit Surface. 10. Evidence for Polar Pathways across the Exocarp. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 3951-3958.	5.2	25
46	Gibberellins Increase Cuticle Deposition in Developing Tomato Fruit. <i>Plant Growth Regulation</i> , 2007, 51, 1-10.	3.4	24
47	Fruit apoplast tension draws xylem water into mature sweet cherries. <i>Scientia Horticulturae</i> , 2016, 209, 270-278.	3.6	24
48	Sweet Cherry Skin Has a Less Negative Osmotic Potential than the Flesh. <i>Journal of the American Society for Horticultural Science</i> , 2015, 140, 472-479.	1.0	24
49	Russeting partially restores apple skin permeability to water vapour. <i>Planta</i> , 2019, 249, 849-860.	3.2	22
50	Russeting in Apple Is Initiated After Exposure to Moisture Ends. <i>Plants</i> , 2020, 9, 1293.	3.5	22
51	Finite dose diffusion studies: I. Characterizing cuticular penetration in a model system using NAA and isolated tomato fruit cuticles. <i>Pest Management Science</i> , 2000, 56, 1005-1015.	3.4	21
52	Calcium physiology of sweet cherry fruits. <i>Trees - Structure and Function</i> , 2020, 34, 1157-1167.	1.9	21
53	Rain-induced cracking of sweet cherries.. , 2017, , 140-165.		21
54	Effect of non-ionic surfactants on ethylene release and leaf growth of <i>Phaseolus vulgaris</i> L.. <i>Scientia Horticulturae</i> , 1991, 46, 1-11.	3.6	20

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55	Expression of putative aquaporin genes in sweet cherry is higher in flesh than skin and most are downregulated during development. <i>Scientia Horticulturae</i> , 2019, 244, 304-314.	3.6	20
56	Studies on Water Transport through the Sweet Cherry Fruit Surface: VIII. Effect of Selected Cations on Water Uptake and Fruit Cracking. <i>Journal of the American Society for Horticultural Science</i> , 2004, 129, 781-788.	1.0	20
57	Localized bursting of mesocarp cells triggers catastrophic fruit cracking. <i>Horticulture Research</i> , 2019, 6, 79.	6.3	19
58	Surface moisture increases microcracking and water vapour permeance of apple fruit skin. <i>Plant Biology</i> , 2021, 23, 74-82.	3.8	19
59	Pedicle Transpiration in Sweet Cherry Fruit: Mechanisms, Pathways, and Factors. <i>Journal of the American Society for Horticultural Science</i> , 2015, 140, 136-143.	1.0	19
60	Interaction of Surfactant and Leaf Surface in Glyphosate Absorption. <i>Weed Science</i> , 1993, 41, 87-93.	1.5	17
61	Substantial water uptake into detached grape berries occurs through the stem surface. <i>Australian Journal of Grape and Wine Research</i> , 2012, 18, 109-114.	2.1	17
62	Urea Penetration of Isolated Tomato Fruit Cuticles. <i>Journal of the American Society for Horticultural Science</i> , 1994, 119, 761-764.	1.0	17
63	Lenticels and apple fruit transpiration. <i>Postharvest Biology and Technology</i> , 2020, 167, 111221.	6.0	16
64	Russetting in Apple is Initiated after Exposure to Moisture Ends: Molecular and Biochemical Evidence. <i>Plants</i> , 2021, 10, 65.	3.5	16
65	Russetting of Fruits: Etiology and Management. <i>Horticulturae</i> , 2022, 8, 231.	2.8	16
66	Studies on Water Transport through the Sweet Cherry Fruit Surface. 11. FeCl <sub>3</sub> Decreases Water Permeability of Polar Pathways. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 6294-6302.	5.2	15
67	Russetting in Apple Seems Unrelated to the Mechanical Properties of the Cuticle at Maturity. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2013, 48, 1135-1138.	1.0	15
68	Late-season Surface Water Induces Skin Spot in Apple. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2014, 49, 1324-1327.	1.0	15
69	Considerations in the Use of an Infinite-Dose System for Studying Surfactant Effects on Diffusion in Isolated Cuticles. <i>Journal of Agricultural and Food Chemistry</i> , 1994, 42, 1013-1018.	5.2	14
70	Studies on water transport through the sweet cherry fruit surface: III. Conductance of the cuticle in relation to fruit size. <i>Physiologia Plantarum</i> , 2002, 114, 414-421.	5.2	14
71	Patterns of microcracking in apple fruit skin reflect those of the cuticular ridges and of the epidermal cell walls. <i>Planta</i> , 2018, 248, 293-306.	3.2	14
72	Factors Affecting Mechanical Properties of the Skin of Sweet Cherry Fruit. <i>Journal of the American Society for Horticultural Science</i> , 2016, 141, 45-53.	1.0	14

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73	Postharvest osmotic dehydration of pedicels of sweet cherry fruit. <i>Postharvest Biology and Technology</i> , 2015, 108, 86-90.	6.0	13
74	Swelling of cell walls in mature sweet cherry fruit: factors and mechanisms. <i>Planta</i> , 2020, 251, 65.	3.2	13
75	Ventricular abnormality in patients with postpartum psychoses. <i>Archives of Women's Mental Health</i> , 1998, 1, 45-47.	2.6	12
76	Surfactant-Enhanced Penetration of Benzyladenine through Isolated Tomato Fruit Cuticular Membranes. <i>Journal of Agricultural and Food Chemistry</i> , 1998, 46, 2346-2352.	5.2	12
77	Effect of Triton X-100 concentration on NAA penetration through the isolated tomato fruit cuticular membrane. <i>Crop Protection</i> , 2004, 23, 141-146.	2.1	12
78	Russetting in "Apple"™ Mango: Triggers and Mechanisms. <i>Plants</i> , 2020, 9, 898.	3.5	12
79	Calcium uptake through skins of sweet cherry fruit: Effects of different calcium salts and surfactants. <i>Scientia Horticulturae</i> , 2021, 276, 109761.	3.6	12
80	Russetting and Relative Growth Rate Are Positively Related in "Conference"™ and "Condo"™ Pear. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2014, 49, 746-749.	1.0	12
81	Studies on octylphenoxy surfactants: IX. Effect of oxyethylene chain length on GA3 absorption by sour cherry leaves. <i>Journal of Plant Growth Regulation</i> , 1991, 10, 173-177.	5.1	11
82	Studies on Water Transport through the Sweet Cherry Fruit Surface. 7. Fe <sup>3+</sup> and Al <sup>3+</sup> Reduce Conductance for Water Uptake. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 7600-7608.	5.2	11
83	Predicting osmotic potential from measurements of refractive index in cherries, grapes and plums. <i>PLoS ONE</i> , 2018, 13, e0207626.	2.5	10
84	Russet Susceptibility in Apple Is Associated with Skin Cells that Are Larger, More Variable in Size, and of Reduced Fracture Strain. <i>Plants</i> , 2020, 9, 1118.	3.5	10
85	Rain cracking in sweet cherries is caused by surface wetness, not by water uptake. <i>Scientia Horticulturae</i> , 2020, 269, 109400.	3.6	10
86	595 The Cuticular Membrane: A Critical Factor in Rain-induced Cracking of Sweet Cherry Fruit. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 1999, 34, 549D-549.	1.0	10
87	Surfactants Influence Foliar Absorption of Gibberellic Acid by Sour Cherry Leaves. <i>Journal of the American Society for Horticultural Science</i> , 1992, 117, 80-84.	1.0	10
88	Studies on Water Transport through the Sweet Cherry Fruit Surface: XII. Variation in Cuticle Properties among Cultivars. <i>Journal of the American Society for Horticultural Science</i> , 2012, 137, 367-375.	1.0	10
89	Studies on water transport through the sweet cherry fruit surface. VI. Effect of hydrostatic pressure on water uptake. <i>Journal of Horticultural Science and Biotechnology</i> , 2002, 77, 609-614.	1.9	9
90	FOLIAR UPTAKE OF PGRS: BARRIERS, MECHANISMS, MODEL SYSTEMS, AND FACTORS. <i>Acta Horticulturae</i> , 2014, , 125-141.	0.2	9

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91	Water Uptake Through the Surface of Fleshy Soft Fruit: Barriers, Mechanism, Factors, and Potential Role in Cracking. , 2015, , 147-166.		9
92	Strawberry fruit skins are far more permeable to osmotic water uptake than to transpirational water loss. PLoS ONE, 2021, 16, e0251351.	2.5	9
93	Factors affecting the absorption of gibberellin A3 by sour cherry leaves. Crop Protection, 1992, 11, 57-63.	2.1	8
94	Droplet sizing using silicone oils. Crop Protection, 2001, 20, 489-498.	2.1	8
95	Xylem conductance of sweet cherry pedicels. Trees - Structure and Function, 2015, 29, 1851-1860.	1.9	8
96	Sweet Cherry Fruit: Ideal Osmometers?. Frontiers in Plant Science, 2019, 10, 164.	3.6	8
97	Decreased deposition and increased swelling of cell walls contribute to increased cracking susceptibility of developing sweet cherry fruit. Planta, 2020, 252, 96.	3.2	8
98	Spray application factors and plant growth regulator performance: I. Bioassays and biological response. Pest Management Science, 1998, 54, 168-178.	0.4	7
99	Finite dose diffusion studies: II. Effect of concentration and pH on NAA penetration through isolated tomato fruit cuticles. Pest Management Science, 2000, 56, 1016-1022.	3.4	7
100	Finite dose diffusion studies: III. Effects of temperature, humidity and deposit manipulation on NAA penetration through isolated tomato fruit cuticles. Pest Management Science, 2001, 57, 737-742.	3.4	7
101	Characterizing Neck Shivel in European Plum. Journal of the American Society for Horticultural Science, 2019, 144, 38-44.	1.0	7
102	Stability of the Organosilicone Surfactant Silwet L-77 in Growth Regulator Sprays. Hortscience: A Publication of the American Society for Horticultural Science, 1991, 26, 1498-1500.	1.0	7
103	Orange peel disorder in sweet cherry: Mechanism and triggers. Postharvest Biology and Technology, 2018, 137, 119-128.	6.0	6
104	Spatial heterogeneity of flesh-cell osmotic potential in sweet cherry affects partitioning of absorbed water. Horticulture Research, 2020, 7, 51.	6.3	6
105	Xylem, phloem and transpiration flows in developing European plums. PLoS ONE, 2021, 16, e0252085.	2.5	6
106	Water Soaking Disorder in Strawberries: Triggers, Factors, and Mechanisms. Frontiers in Plant Science, 2021, 12, 694123.	3.6	6
107	Low cuticle deposition rate in "Apple" mango increases elastic strain, weakens the cuticle and increases russet. PLoS ONE, 2021, 16, e0258521.	2.5	6
108	Pathways of postharvest water loss from banana fruit. Postharvest Biology and Technology, 2022, 191, 111979.	6.0	6

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109	Effect of Orchard Management Factors on Flesh Color of Two Red-Fleshed Apple Clones. <i>Horticulturae</i> , 2019, 5, 54.	2.8	5
110	Selective Solubilization of Tomato Fruit Epicuticular Wax Constituents by Triton X-100 Surfactant. <i>Journal of Pesticide Sciences</i> , 2001, 26, 16-20.	1.4	5
111	Effect of sweet cherry genes PaLACS2 and PaATT1 on cuticle deposition, composition and permeability in <i>Arabidopsis</i> . <i>Tree Genetics and Genomes</i> , 2014, 10, 1711-1721.	1.6	4
112	Shading affects fracture force and fracture strain of apple fruit skins. <i>Scientia Horticulturae</i> , 2020, 274, 109651.	3.6	4
113	Water Influx through the Wetted Surface of a Sweet Cherry Fruit: Evidence for an Associated Solute Efflux. <i>Plants</i> , 2020, 9, 440.	3.5	4
114	Xylem, phloem and transpiration flows in developing strawberries. <i>Scientia Horticulturae</i> , 2021, 288, 110305.	3.6	4
115	Mottling on Sweet Cherry Fruit Is Caused by Exocarp Strain. <i>Journal of the American Society for Horticultural Science</i> , 2013, 138, 18-23.	1.0	4
116	Spray application factors and plant growth regulator performance: II. Foliar uptake of gibberellic acid and 2, 4-D. <i>Pest Management Science</i> , 1999, 55, 166-174.	0.4	4
117	Surface Moisture Induces Microcracks and Increases Water Vapor Permeance of Fruit Skins of Mango cv. Apple. <i>Horticulturae</i> , 2022, 8, 545.	2.8	4
118	Spray application factors and plant growth regulator performance: III. Interaction of daminozide uptake, translocation and phytotoxicity in bean seedlings. <i>Pest Management Science</i> , 2000, 56, 43-48.	3.4	3
119	Characterizing Penetration of Aminoethoxyvinylglycine (AVG) through Isolated Tomato Fruit Cuticles. <i>Journal of Plant Growth Regulation</i> , 2013, 32, 596-603.	5.1	3
120	Time to Fracture and Fracture Strain are Negatively Related in Sweet Cherry Fruit Skin. <i>Journal of the American Society for Horticultural Science</i> , 2016, 141, 485-489.	1.0	3
121	The permeability concept: a useful tool in analyzing water transport through the sweet cherry fruit surface. <i>Acta Horticulturae</i> , 2017, , 367-374.	0.2	3
122	Cutin Synthesis in Developing, Field-Grown Apple Fruit Examined by External Feeding of Labelled Precursors. <i>Plants</i> , 2021, 10, 497.	3.5	3
123	Penetration of Sweet cherry skin by <sup>45</sup> Ca-salts: pathways and factors. <i>Scientific Reports</i> , 2021, 11, 11142.	3.3	3
124	Factors affecting cuticle synthesis in apple fruit identified under field conditions. <i>Scientia Horticulturae</i> , 2021, 290, 110512.	3.6	3
125	Epidermal Segments: A Useful Model System for Studying Water Transport through Fruit Surfaces. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2003, 38, 1410-1413.	1.0	3
126	Direct Evidence for a Radial Gradient in Age of the Apple Fruit Cuticle. <i>Frontiers in Plant Science</i> , 2021, 12, 730837.	3.6	3



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127	Accurate Quantification of Anthocyanin in Red Flesh Apples Using Digital Photography and Image Analysis. <i>Horticulturae</i> , 2022, 8, 145.	2.8	3
128	Spray application factors and plant growth regulator performance: II. Foliar uptake of gibberellic acid and 2,4-D. <i>Pest Management Science</i> , 1999, 55, 166-174.	0.4	2
129	Spray Application Factors and Plant Growth Regulator Performance: IV. Dose Response Relationships. <i>Journal of the American Society for Horticultural Science</i> , 2000, 125, 195-199.	1.0	2
130	The mechanism of rain cracking of sweet cherry fruit. <i>Italus Hortus</i> , 0, 26, 59-65.	0.9	2
131	Nondestructive Determination of Fruit Surface Area Using Archimedean Buoyancy. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2020, 55, 1647-1653.	1.0	2
132	EFFECTS OF PH, TEMPERATURE, HUMIDITY, AND REWETTING ON CUTICULAR PENETRATION OF ABA. <i>Acta Horticulturae</i> , 2014, , 143-150.	0.2	1
133	PENETRATION OF OCTYLPHENOXY SURFACTANTS THROUGH ISOLATED TOMATO FRUIT CUTICLES. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 1990, 25, 1145g-1146.	1.0	1
134	Effect of Receiver pH on Infinite Dose Diffusion of $^{55}\text{FeCl}_3$ across the Sweet Cherry Fruit Exocarp. <i>Journal of the American Society for Horticultural Science</i> , 2010, 135, 95-101.	1.0	1
135	Sweet cherry flesh cells burst in non-random clusters along minor veins. <i>Planta</i> , 2022, 255, 100.	3.2	1
136	Curvature of carrot ( <i>Daucus carota</i> L.) sticks is related to number and distribution of xylem vessels. <i>Postharvest Biology and Technology</i> , 2001, 22, 133-139.	6.0	0
137	Xylogenesis and phloemogenesis in the flesh of sweet cherry fruit are limited to early-stage development. <i>Scientific Reports</i> , 2022, 12, .	3.3	0