

Hiroshi Nonami

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

3,266
citations

136950

32
h-index

175258

52
g-index

112
all docs

112
docs citations

112
times ranked

2541
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics and stabilization mechanism of mitochondrial cristae morphofunction associated with turgor-driven cardiolipin biosynthesis under salt stress conditions. <i>Scientific Reports</i> , 2022, 12, .	3.3	1
2	Endosperm cell size reduction caused by osmotic adjustment during nighttime warming in rice. <i>Scientific Reports</i> , 2021, 11, 4447.	3.3	7
3	Metabolic coordination of rice seed development to nighttime warming: In-situ determination of cellular redox states using picolitre pressure-probe electrospray-ionization mass spectrometry. <i>Environmental and Experimental Botany</i> , 2021, 188, 104515.	4.2	5
4	Direct evidence for dynamics of cell heterogeneity in watercored apples: turgor-associated metabolic modifications and within-fruit water potential gradient unveiled by single-cell analyses. <i>Horticulture Research</i> , 2021, 8, 187.	6.3	8
5	Point Analysis of Foods by Sheath-Flow Probe Electrospray Ionization/Mass Spectrometry (sfPESI/MS) Coupled with a Touch Sensor. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 418-425.	5.2	9
6	Robotic sheath-flow probe electrospray ionization/mass spectrometry (sfPESI/MS): development of a touch sensor for samples in a multiwell plastic plate. <i>Analytical Methods</i> , 2020, 12, 2812-2819.	2.7	4
7	On-site single pollen metabolomics reveals varietal differences in phosphatidylinositol synthesis under heat stress conditions in rice. <i>Scientific Reports</i> , 2020, 10, 2013.	3.3	31
8	Probe Electrospray Ionization (PESI) and Its Modified Versions: Dipping PESI (dPESI), Sheath-Flow PESI (sfPESI) and Adjustable sfPESI (ad-sfPESI). <i>Mass Spectrometry</i> , 2020, 9, A0092-A0092.	0.6	17
9	Component Profiling in Agricultural Applications Using an Adjustable Acupuncture Needle for Sheath-Flow Probe Electrospray Ionization/Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 3275-3283.	5.2	12
10	Multiple strategies for heat adaptation to prevent chalkiness in the rice endosperm. <i>Journal of Experimental Botany</i> , 2019, 70, 1299-1311.	4.8	50
11	Measurement Techniques for Water Stress Analyses. <i>Shokubutsu Kankyo Kogaku</i> , 2019, 31, 73-78.	0.1	0
12	Dipping probe electrospray ionization/mass spectrometry for direct on-site and low-invasive food analysis. <i>Food Chemistry</i> , 2018, 260, 53-60.	8.2	16
13	Remote sampling mass spectrometry for dry samples: Sheath-flow probe electrospray ionization (PESI) using a gel-loading tip inserted with an acupuncture needle. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 407-413.	1.5	14
14	Electrospray Generated from the Tip-Sealed Fine Glass Capillary Inserted with an Acupuncture Needle Electrode. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 2297-2304.	2.8	5
15	Evidence for preservation of vacuolar compartments during foehn-induced chalky ring formation of <i>Oryza sativa</i> L.. <i>Planta</i> , 2018, 248, 1263-1275.	3.2	11
16	Non-proximate mass spectrometry using a heated 1-m long PTFE tube and an air-tight APCI ion source. <i>Analytica Chimica Acta</i> , 2017, 973, 59-67.	5.4	10
17	Pulsed probe electrospray and nano-electrospray: the temporal profiles of ion formation from the Taylor cone. <i>Analytical Methods</i> , 2017, 9, 4958-4963.	2.7	7
18	Desorption in Mass Spectrometry. <i>Mass Spectrometry</i> , 2017, 6, S0059-S0059.	0.6	9

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19	Blossom End Rot Tomato Fruit Diagnosis for <i>In Situ</i> Cell Analyses with Real Time Pico-Pressure Probe Ionization Mass Spectrometry. <i>Environmental Control in Biology</i> , 2017, 55, 41-51.	0.7	6
20	Turgor-responsive starch phosphorylation in <i>Oryza sativa</i> stems: A primary event of starch degradation associated with grain-filling ability. <i>PLoS ONE</i> , 2017, 12, e0181272.	2.5	22
21	Nitrogen incorporation in saturated aliphatic C ₆ –C ₈ hydrocarbons and ethanol in low-pressure nitrogen plasma generated by a hollow cathode discharge ion source. <i>Journal of Mass Spectrometry</i> , 2016, 51, 446-452.	1.6	6
22	Mass spectrometric monitoring of oxidation of aliphatic C ₆ –C ₈ hydrocarbons and ethanol in low pressure oxygen and air plasmas. <i>Journal of Mass Spectrometry</i> , 2016, 51, 1187-1195.	1.6	10
23	Single-Cell Metabolite Profiling of Stalk and Glandular Cells of Intact Trichomes with Internal Electrode Capillary Pressure Probe Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 3049-3057.	6.5	90
24	<i>In situ</i> analysis of soybeans and nuts by probe electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015, 50, 676-682.	1.6	10
25	Nanoparticles Applied to Mass Spectrometry Metabolomics and Pesticide Residue Analysis. , 2015, , 289-303.		0
26	Rice Chalky Ring Formation Caused by Temporal Reduction in Starch Biosynthesis during Osmotic Adjustment under Foehn-Induced Dry Wind. <i>PLoS ONE</i> , 2014, 9, e110374.	2.5	35
27	Piezoelectric inkjet assisted rapid electrospray ionization mass spectrometric analysis of metabolites in plant single cells via a direct sampling probe. <i>Analyst, The</i> , 2014, 139, 5734-5739.	3.5	30
28	Direct analysis of anabolic steroids in urine using Leidenfrost phenomenon assisted thermal desorption-dielectric barrier discharge ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2014, 839, 1-7.	5.4	32
29	Development of Sheath-Flow Probe Electrospray Ionization Mass Spectrometry and Its Application to Real Time Pesticide Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 7889-7895.	5.2	23
30	Biomolecular analysis and cancer diagnostics by negative mode probe electrospray ionization. <i>Analyst, The</i> , 2013, 138, 1682.	3.5	37
31	Development of sheath-flow probe electrospray ionization (SF-PESI). <i>Journal of Mass Spectrometry</i> , 2013, 48, 823-829.	1.6	23
32	Living cell manipulation, manageable sampling, and shotgun picoliter electrospray mass spectrometry for profiling metabolites. <i>Analytical Biochemistry</i> , 2013, 433, 70-78.	2.4	43
33	Hydraulic Properties in Tissue-cultured Soybean Roots are Affected by Salt, Sugar and Heavy Metals. <i>Environmental Control in Biology</i> , 2013, 51, 165-172.	0.7	0
34	Photosensitized electron transfer within a self-assembled norharmane–2'-deoxyadenosine 5'-monophosphate (dAMP) complex. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 9359.	2.8	20
35	Application of Probe Electrospray Ionization Mass Spectrometry (PESI-MS) to Clinical Diagnosis: Solvent Effect on Lipid Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 2043-2047.	2.8	49
36	Solid probe assisted nanoelectrospray ionization mass spectrometry for biological tissue diagnostics. <i>Analyst, The</i> , 2012, 137, 4658.	3.5	29

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37	In Situ Pressure Probe Sampling and UV-MALDI MS for Profiling Metabolites in Living Single Cells. <i>Mass Spectrometry</i> , 2012, 1, A0003-A0003.	0.6	14
38	Growth Promotion with Osmotic Adjustment at Low Water Potentials after H ₂ O ₂ Pretreatment in Soybean Seeds. <i>Environmental Control in Biology</i> , 2012, 50, 263-276.	0.7	2
39	Online Electrospray Ionization Mass Spectrometric Monitoring of Protease-Catalyzed Reactions in Real Time. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 728-735.	2.8	19
40	Mass spectrometry of rhenium complexes: a comparative study by using LDI-MS, MALDI-MS, PESI-MS and ESI-MS. <i>Journal of Mass Spectrometry</i> , 2012, 47, 313-321.	1.6	22
41	Detection of Pesticides on Tomato Fruit Surface by Ultraviolet Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Environmental Control in Biology</i> , 2012, 50, 107-116.	0.7	2
42	Detection of protein from detergent solutions by probe electrospray ionization mass spectrometry (PESI-MS). <i>Journal of Mass Spectrometry</i> , 2011, 46, 967-975.	1.6	44
43	Increased Ring-Shaped Chalkiness and Osmotic Adjustment when Growing Rice Grains under Foehn-Induced Dry Wind Condition. <i>Crop Science</i> , 2011, 51, 1703-1715.	1.8	22
44	Ethylenediaminetetraacetic acid (EDTA) as an auxiliary tool in the electrospray ionization mass spectrometry analysis of native and derivatized β -cyclodextrins, maltoses, and fructans contaminated with Ca and/or Mg. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1526-1529.	2.8	0
45	Matrix-assisted laser desorption/ionization time-of-flight (MALDI-TOF) mass spectrometry analysis of oligosaccharides and oligosaccharide alditols obtained by hydrolysis of agaroses and carrageenans, two important types of red seaweed polysaccharides. <i>Carbohydrate Research</i> , 2010, 345, 275-283.	2.3	14
46	Lipase-catalyzed synthesis and characterization of a novel linear polyamidoamine oligomer. <i>Polymer</i> , 2010, 51, 2998-3005.	3.8	20
47	Real-time reaction monitoring by probe electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1507-1513.	1.5	43
48	Diamond, Titanium Dioxide, Titanium Silicon Oxide, and Barium Strontium Titanium Oxide Nanoparticles as Matrixes for Direct Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Analysis of Carbohydrates in Plant Tissues. <i>Analytical Chemistry</i> , 2010, 82, 5518-5526.	6.5	116
49	Effects of Water Flow from the Xylem on the Growth-induced Water Potential and the Growth-effective Turgor Associated with Enlarging Tomato Fruit. <i>Environmental Control in Biology</i> , 2010, 48, 101-116.	0.7	14
50	Superposition of the Transpiration-induced Water Potential and the Growth-induced Water Potential Associated with Expanding Tomato Leaves. <i>Environmental Control in Biology</i> , 2010, 48, 117-125.	0.7	4
51	The effect of temperature on the stability of compounds used as UV-MALDI-MS matrix: 2,5-dihydroxybenzoic acid, 2,4,6-trihydroxyacetophenone, 1-cyano-4-hydroxycinnamic acid, 3,5-dimethoxy-4-hydroxycinnamic acid, nor-harmaline and harmaline. <i>Journal of Mass Spectrometry</i> , 2009, 44, 260-277.	1.6	33
52	Direct profiling of phytochemicals in tulip tissues and in vivo monitoring of the change of carbohydrate content in tulip bulbs by probe electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 2304-2311.	2.8	59
53	Application of Pressure Probe and UV-MALDI-TOF MS for Direct Analysis of Plant Underivatized Carbohydrates in Subpicoliter Single-Cell Cytoplasm Extract. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1841-1848.	2.8	23
54	Silsesquioxane functionalized with methacrylate and amine groups as a crosslinker/co-initiator for the synthesis of hydrogels by visible-light photopolymerization. <i>Polymer</i> , 2008, 49, 3648-3653.	3.8	21

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55	Development and optimization of an in vitro chloroplastic protein import assay using recombinant proteins. <i>Plant Physiology and Biochemistry</i> , 2008, 46, 541-549.	5.8	4
56	In situ analysis of plant tissue underivatized carbohydrates and on-probe enzymatic degraded starch by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry by using carbon nanotubes as matrix. <i>Analytical Biochemistry</i> , 2008, 383, 159-167.	2.4	27
57	Effect of Low Root Temperature on Hydraulic Conductivity of Rice Plants and the Possible Role of Aquaporins. <i>Plant and Cell Physiology</i> , 2008, 49, 1294-1305.	3.1	101
58	Alternative Processing of Arabidopsis Hsp70 Precursors during Protein Import into Chloroplasts. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 2926-2935.	1.3	27
59	UV-MALDI-TOF MS Analysis of Carbohydrates. Reviewing Comparative Studies Performed Using nor-Harmane and Classical UV-MALDI Matrices. <i>Environmental Control in Biology</i> , 2008, 46, 65-90.	0.7	6
60	Lipase-catalyzed synthesis and characterization of copolymers from ethyl acrylate as the only monomer starting material. <i>Polymer</i> , 2007, 48, 1517-1525.	3.8	27
61	<i>Plasmodium falciparum</i> biosynthesizes sulfoglycosphingolipids. <i>Molecular and Biochemical Parasitology</i> , 2007, 154, 22-29.	1.1	17
62	Matrix-assisted ultraviolet laser desorption/ionization time-of-flight (UV-MALDI-TOF) mass spectra of N-acylated and N,O-acylated glycosylamines. <i>Carbohydrate Research</i> , 2007, 342, 2567-2574.	2.3	3
63	The Water Status Measurements Associated with Plant Growth. <i>Environmental Control in Biology</i> , 2007, 45, 201-214.	0.7	1
64	Water Relations in Tissue-cultured Soybean Plants. <i>Environmental Control in Biology</i> , 2007, 45, 215-222.	0.7	0
65	Direct UV-MALDI-TOF MS Analysis of (Glyco)proteins of Fractions of Bovine Seminal Plasma. <i>Environmental Control in Biology</i> , 2007, 45, 267-290.	0.7	1
66	A matrix-assisted laser desorption/ionization mass spectrometry approach to the lipid A from <i>Mesorhizobium loti</i> . <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2175-2182.	1.5	11
67	Structural analysis of the N-glycans of the major cysteine proteinase of <i>Trypanosoma cruzi</i> . <i>FEBS Journal</i> , 2005, 272, 3803-3815.	4.7	46
68	Matrix-assisted ultraviolet laser desorption/ionization time-of-flight mass spectrometry of β -(1 \rightarrow 3), β -(1 \rightarrow 6) D-glucopyranosyl α -D-glucopyranoside. <i>Journal of Mass Spectrometry</i> , 2005, 19, 349-358.	1.5	15
69	Hydraulic Conductance in Tepal Growth and Extension of Vase Life with Trehalose in Cut Tulip Flowers. <i>Journal of the American Society for Horticultural Science</i> , 2005, 130, 275-286.	1.0	11
70	Glycosphingolipids in <i>Plasmodium falciparum</i> . <i>FEBS Journal</i> , 2004, 271, 2204-2214.	0.2	34
71	Epoxy Networks Modified by a New Class of Oligomeric Silsesquioxanes Bearing Multiple Intramolecular Rings Formed through Si-C Bonds. <i>Macromolecular Materials and Engineering</i> , 2004, 289, 315-323.	3.6	18
72	Hydraulic Conductance Associated with Growth of Flower Stalks, Leaves and Roots in Tulip Plants. <i>Seibutsu Kankyo Chosetsu [Environment Control in Biology]</i> , 2004, 42, 193-203.	0.2	4

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73	Direct Measurements of Cell Turgor and Hydraulic Conductance in Expanding Tulip Tepals. <i>Seibutsu Kankyo Chosetsu [Environment Control in Biology, 2004, 42, 205-215.</i>	0.2	3
74	Phase Changes in Arrhenius Plots on NMR Relaxation Times for Various Organs of Crop Plants Exposed to Temperature Stresses. <i>Seibutsu Kankyo Chosetsu [Environment Control in Biology, 2004, 42, 5-19.</i>	0.2	2
75	Poly(silsesquioxanes) derived from the hydrolytic condensation of organotrialkoxysilanes containing hydroxyl groups. <i>Journal of Organometallic Chemistry, 2003, 686, 42-51.</i>	1.8	45
76	UV-Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry analysis of synthetic polymers by using nor-harmane as matrix. <i>Arkivoc, 2003, 2003, 517-537.</i>	0.5	11
77	Silsesquioxanes Derived from the Bulk Polycondensation of [3-(Methacryloxy)propyl]trimethoxysilane with Concentrated Formic Acid: Evolution of Molar Mass Distributions and Fraction of Intramolecular Cycles. <i>Macromolecules, 2002, 35, 1160-1174.</i>	4.8	61
78	Nor-Harmane (9H-Pyrido[3,4-b]indole) as Outstanding Matrix for UV-Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry Analysis of Synthetic and Bio-Polymers.. <i>Seibutsu Kankyo Chosetsu [Environment Control in Biology, 2002, 40, 55-73.</i>	0.2	11
79	Matrix-assisted ultraviolet laser-desorption ionization and electrospray-ionization time-of-flight mass spectrometry of sulfated neocarrabiose oligosaccharides. <i>Carbohydrate Research, 2002, 337, 1553-1562.</i>	2.3	34
80	Synthesis of Chiral Polyhydroxy Polyamides Having Chains of Defined Regio and Stereoregularity. <i>Macromolecules, 2001, 34, 687-695.</i>	4.8	22
81	One-Step Synthesis of Polyhedral Silsesquioxanes Bearing Bulky Substituents: UV-MALDI-TOF and ESI-TOF Mass Spectrometry Characterization of Reaction Products. <i>Macromolecules, 2001, 34, 3534-3539.</i>	4.8	80
82	Water Status Measurements in Soil and Roots, Leaves and Stems of Crop Plants. <i>Japanese Journal of Crop Science, 2001, 70, 151-163.</i>	0.2	3
83	Evaluation of pyridoindoles, pyridylindoles and pyridylpyridoindoles as matrices for ultraviolet matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry, 2001, 15, 2354-2373.</i>	1.5	44
84	UV-MALDI-TOF and ESI-TOF Mass Spectrometry Characterization of Silsesquioxanes Obtained by the Hydrolytic Condensation of (3-Glycidoxypropyl)- trimethoxysilane in an Epoxidized Solvent. <i>Macromolecular Chemistry and Physics, 2001, 202, 2425-2433.</i>	2.2	41
85	A Study of Measurement Techniques in Plant-Water Relationships. <i>Seibutsu Kankyo Chosetsu [Environment Control in Biology, 2001, 39, 325-328.</i>	0.2	0
86	Matrix-assisted ultraviolet laser-desorption ionization time-of-flight mass spectrometry of sulfated mannans from the red seaweed <i>Nothogenia fastigiata</i> . <i>Carbohydrate Research, 2000, 329, 157-167.</i>	2.3	22
87	Cage-like Precursors of High-Molar-Mass Silsesquioxanes Formed by the Hydrolytic Condensation of Trialkoxysilanes. <i>Macromolecules, 2000, 33, 1940-1947.</i>	4.8	87
88	Trehalose Changes Hydraulic Conductance of Tissue-cultured Soybean Embryos.. <i>Plant Biotechnology, 2000, 17, 119-125.</i>	1.0	11
89	Title is missing!. <i>Biotechnology Letters, 1999, 13, 923-926.</i>	0.5	29
90	Water Potential Associated with Cell Elongation and Cell Division of Tissue-Cultured Carnation Plants.. <i>Plant Biotechnology, 1999, 16, 115-121.</i>	1.0	7

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91	δ^2 -Carboline alkaloids as matrices for UV-matrix-assisted laser desorption/ionization time-of-flight mass spectrometry in positive and negative ion modes. Analysis of proteins of high molecular mass, and of cyclic and acyclic oligosaccharides. , 1998, 12, 285-296.		104
92	Plant water relations and control of cell elongation at low water potentials. Journal of Plant Research, 1998, 111, 373-382.	2.4	151
93	Sugar Accumulation and Partitioning in Satsuma Mandarin Tree Tissues and Fruit in Response to Drought Stress. Journal of the American Society for Horticultural Science, 1998, 123, 719-726.	1.0	102
94	δ^2 -Carboline Alkaloids as Matrices for Matrix-assisted Ultraviolet Laser Desorption Time-of-flight Mass Spectrometry of Proteins and Sulfated Oligosaccharides: a Comparative Study Using Phenylcarbonyl Compounds, Carbazoles and Classical Matrices. Journal of Mass Spectrometry, 1997, 32, 287-296.	1.6	100
95	Changes in Activities of .BETA.-N-Acetylhexosaminidase and Chitobiase Developed in Kidney Beans during Maturation and Germination.. Seibutsu Kankyo Chosetsu [Environment Control in Biology, 1997, 35, 1-7.	0.2	0
96	Sugar Accumulation Enhanced by Osmoregulation in Satsuma Mandarin Fruit. Journal of the American Society for Horticultural Science, 1996, 121, 466-472.	1.0	112
97	Growth-induced Water Potential Regulates Growth of Tissue-cultured Plantlets under Environmental Stresses.. Seibutsu Kankyo Chosetsu [Environment Control in Biology, 1996, 34, 141-146.	0.2	4
98	Measurement Techniques and Environmental Control in Plant Science.. Seibutsu Kankyo Chosetsu [Environment Control in Biology, 1994, 32, 203-217.	0.2	1
99	GROWTH REGULATION IN PLANT FACTORIES AND GREENHOUSES FROM A PHYSIOLOGICAL VIEWPOINT. , 1993, , 303-331.		4
100	Report of IFAC/ISHS Workshop on Mathematical and Control Applications in Agriculture and Horticulture. Seibutsu Kankyo Chosetsu [Environment Control in Biology, 1992, 30, 45-47.	0.2	0
101	Supporting Expert System for Tomato Cultivation Based on Inference Using Fact Data Base.. Seibutsu Kankyo Chosetsu [Environment Control in Biology, 1992, 30, 185-191.	0.2	1
102	Mechanisms of stomatal movement in response to air humidity, irradiance and xylem water potential. Planta, 1991, 183, 57-64.	3.2	44
103	Wall Extensibility and Cell Hydraulic Conductivity Decrease in Enlarging Stem Tissues at Low Water Potentials. Plant Physiology, 1990, 93, 1610-1619.	4.8	120
104	WATER POTENTIAL AND ITS COMPONENTS IN GROWING TISSUES. , 1990, , 101-112.		5
105	Primary Events Regulating Stem Growth at Low Water Potentials. Plant Physiology, 1990, 93, 1601-1609.	4.8	136
106	OVERVIEW OF CURRENT MEASUREMENT TECHNIQUES FROM ASPECTS OF PLANT SCIENCE. , 1990, , 7-24.		8
107	Turgor and Growth at Low Water Potentials. Plant Physiology, 1989, 89, 798-804.	4.8	129
108	Cell water potential, osmotic potential, and turgor in the epidermis and mesophyll of transpiring leaves. Planta, 1989, 177, 35-46.	3.2	83

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109	Origin of Growth-Induced Water Potential. <i>Plant Physiology</i> , 1987, 83, 596-601.	4.8	84
110	Pressure Probe and Isopiestic Psychrometer Measure Similar Turgor. <i>Plant Physiology</i> , 1987, 83, 592-595.	4.8	59