

Robert Turgeon

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

5,796
citations

45
h-index

75
g-index

92
ext. papers

6,461
ext. citations

7.6
avg, IF

5.91
L-index

#	Paper	IF	Citations
89	Modeling SLiberibacter asiaticusSMovement Within Citrus Plants. <i>Phytopathology</i> , 2021 , PHYTO122005598	5.8	3
88	Complexity untwined: The structure and function of cucumber (<i>Cucumis sativus</i> L.) shoot phloem. <i>Plant Journal</i> , 2021 , 106, 1163-1176	6.9	2
87	Physiological and Proteomic Responses of Mulberry Trees (<i>L.</i>) to Combined Salt and Drought Stress. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	17
86	Environmental conditions, not sugar export efficiency, limit the length of conifer leaves. <i>Tree Physiology</i> , 2019 , 39, 312-319	4.2	3
85	mRNA is synthesized in specialized companion cells in and Maryland Mammoth tobacco leaf veins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2830-2835	11.5	31
84	Mechanisms of phloem loading. <i>Current Opinion in Plant Biology</i> , 2018 , 43, 71-75	9.9	43
83	Elucidation of the Mechanisms of Long-Distance mRNA Movement in a /Tomato Heterograft System. <i>Plant Physiology</i> , 2018 , 177, 745-758	6.6	44
82	Export of Photosynthates from the Leaf. <i>Advances in Photosynthesis and Respiration</i> , 2018 , 55-79	1.7	2
81	Transcriptomic and functional analysis of cucumber (<i>Cucumis sativus</i> L.) fruit phloem during early development. <i>Plant Journal</i> , 2018 , 96, 982-996	6.9	14
80	The scaling of the hydraulic architecture in poplar leaves. <i>New Phytologist</i> , 2017 , 214, 145-157	9.8	23
79	The complex character of photosynthesis in cucumber fruit. <i>Journal of Experimental Botany</i> , 2017 , 68, 1625-1637	7	24
78	Passive phloem loading and long-distance transport in a synthetic tree-on-a-chip. <i>Nature Plants</i> , 2017 , 3, 17032	11.5	34
77	The hydraulic architecture of Ginkgo leaves. <i>American Journal of Botany</i> , 2017 , 104, 1285-1298	2.7	15
76	Phloem Loading through Plasmodesmata: A Biophysical Analysis. <i>Plant Physiology</i> , 2017 , 175, 904-915	6.6	33
75	Assessing Rates of Long-distance Carbon Transport in by Collecting Phloem Exudations into EDTA Solutions after Photosynthetic Labeling with [C]CO. <i>Bio-protocol</i> , 2017 , 7, e2656	0.9	4
74	Assessing Long-distance Transport from Photosynthetic Source Leaves to Heterotrophic Sink Organs with [C]CO. <i>Bio-protocol</i> , 2017 , 7, e2657	0.9	4
73	Quantifying the Capacity of Phloem Loading in Leaf Disks with [C]Sucrose. <i>Bio-protocol</i> , 2017 , 7, e2658	0.9	6

72	Allocation, stress tolerance and carbon transport in plants: how does phloem physiology affect plant ecology?. <i>Plant, Cell and Environment</i> , 2016 , 39, 709-25	8.4	120
71	Phloem Biology of the Cucurbitaceae. <i>Plant Genetics and Genomics: Crops and Models</i> , 2016 , 291-305	0.2	4
70	Comparative analyses of C ₄ and C ₃ photosynthesis in developing leaves of maize and rice. <i>Nature Biotechnology</i> , 2014 , 32, 1158-65	44.5	160
69	Symplastic phloem loading in poplar. <i>Plant Physiology</i> , 2014 , 166, 306-13	6.6	51
68	Short-root1 plays a role in the development of vascular tissue and kranz anatomy in maize leaves. <i>Molecular Plant</i> , 2014 , 7, 1388-1392	14.4	27
67	Structural and functional heterogeneity in phloem loading and transport. <i>Frontiers in Plant Science</i> , 2013 , 4, 244	6.2	59
66	Scarecrow plays a role in establishing Kranz anatomy in maize leaves. <i>Plant and Cell Physiology</i> , 2012 , 53, 2030-7	4.9	84
65	The origin and composition of cucurbit "phloem" exudate. <i>Plant Physiology</i> , 2012 , 158, 1873-82	6.6	67
64	Transport of sucrose, not hexose, in the phloem. <i>Journal of Experimental Botany</i> , 2012 , 63, 4315-20	7	65
63	Sucrose transporter plays a role in phloem loading in CMV-infected melon plants that are defined as symplastic loaders. <i>Plant Journal</i> , 2011 , 66, 366-74	6.9	37
62	Amborella trichopoda, plasmodesmata, and the evolution of phloem loading. <i>Protoplasma</i> , 2011 , 248, 173-80	3.4	13
61	Phloem loading, plant growth form, and climate. <i>Protoplasma</i> , 2011 , 248, 153-63	3.4	51
60	Phloem loading strategies and water relations in trees and herbaceous plants. <i>Plant Physiology</i> , 2011 , 157, 1518-27	6.6	68
59	The developmental dynamics of the maize leaf transcriptome. <i>Nature Genetics</i> , 2010 , 42, 1060-7	36.3	550
58	Structural and metabolic transitions of C ₄ leaf development and differentiation defined by microscopy and quantitative proteomics in maize. <i>Plant Cell</i> , 2010 , 22, 3509-42	11.6	173
57	The puzzle of phloem pressure. <i>Plant Physiology</i> , 2010 , 154, 578-81	6.6	87
56	The secret phloem of pumpkins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13201-2	11.5	27
55	The role of phloem loading reconsidered. <i>Plant Physiology</i> , 2010 , 152, 1817-23	6.6	115

54	Activation of sucrose transport in defoliated <i>Lolium perenne</i> L.: an example of apoplastic phloem loading plasticity. <i>Plant and Cell Physiology</i> , 2009 , 50, 1329-44	4.9	38
53	Phloem loading strategies in three plant species that transport sugar alcohols. <i>Plant Physiology</i> , 2009 , 149, 1601-8	6.6	56
52	Phloem transport: cellular pathways and molecular trafficking. <i>Annual Review of Plant Biology</i> , 2009 , 60, 207-21	30.7	330
51	Downregulating the sucrose transporter VpSUT1 in <i>Verbascum phoeniceum</i> does not inhibit phloem loading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18849-54	11.5	50
50	A comprehensive picture of phloem loading strategies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14162-7	11.5	281
49	Role of light and jasmonic acid signaling in regulating foliar phloem cell wall ingrowth development. <i>New Phytologist</i> , 2007 , 173, 722-731	9.8	68
48	Photosynthetic acclimation in the context of structural constraints to carbon export from leaves. <i>Photosynthesis Research</i> , 2007 , 94, 455-66	3.7	49
47	Phloem loading in <i>Verbascum phoeniceum</i> L. depends on the synthesis of raffinose-family oligosaccharides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19619-24	11.5	72
46	Phloem Loading: How Leaves Gain Their Independence. <i>BioScience</i> , 2006 , 56, 15	5.7	65
45	The geminivirus nuclear shuttle protein NSP inhibits the activity of AtNSI, a vascular-expressed Arabidopsis acetyltransferase regulated with the sink-to-source transition. <i>Plant Physiology</i> , 2006 , 140, 1317-30	6.6	43
44	(126) Morphology and Physiology of Sugar Transport in Apple Leaves. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2006 , 41, 1061E-1062	2.4	
43	Anatomical and photosynthetic acclimation to the light environment in species with differing mechanisms of phloem loading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 12968-73	11.5	115
42	Phloem loading. A reevaluation of the relationship between plasmodesmatal frequencies and loading strategies. <i>Plant Physiology</i> , 2004 , 136, 3795-803	6.6	80
41	Graft transmission of a floral stimulant derived from CONSTANS. <i>Plant Physiology</i> , 2004 , 135, 2271-8	6.6	119
40	Symplastic continuity between companion cells and the translocation stream: long-distance transport is controlled by retention and retrieval mechanisms in the phloem. <i>Plant Physiology</i> , 2003 , 131, 1518-28	6.6	89
39	Functional and phylogenetic analyses of a conserved regulatory program in the phloem of minor veins. <i>Plant Physiology</i> , 2003 , 133, 1229-39	6.6	47
38	Galactinol Synthase Gene Expression in Melon. <i>Journal of the American Society for Horticultural Science</i> , 2003 , 128, 8-15	2.3	25
37	Optimization of trans-splicing ribozyme efficiency and specificity by in vivo genetic selection. <i>Nucleic Acids Research</i> , 2002 , 30, e141	20.1	19

36	The evolution of minor vein phloem and phloem loading. <i>American Journal of Botany</i> , 2001 , 88, 1331-1339	2.7	82
35	Phloem loading in the tulip tree. Mechanisms and evolutionary implications. <i>Plant Physiology</i> , 2001 , 125, 891-9	6.6	30
34	Plasmodesmata and solute exchange in the phloem. <i>Functional Plant Biology</i> , 2000 , 27, 521	2.7	5
33	Minor vein structure and sugar transport in <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2000 , 211, 105-11	4.7	176
32	Identification of phloem involved in assimilate loading in leaves by the activity of the galactinol synthase promoter. <i>Plant Physiology</i> , 2000 , 123, 929-37	6.6	92
31	Sieve elements and companion cells-traffic control centers of the phloem. <i>Plant Cell</i> , 1999 , 11, 739-50	11.6	268
30	Phloem loading and plasmodesmata. <i>Trends in Plant Science</i> , 1996 , 1, 418-423	13.1	154
29	Secondary plasmodesmata formation in the minor-vein phloem of <i>Cucumis melo</i> L. and <i>Cucurbita pepo</i> L.. <i>Planta</i> , 1996 , 199, 425	4.7	55
28	Raffinose oligosaccharide concentrations measured in individual cell and tissue types in <i>Cucumis melo</i> L. leaves: implications for phloem loading. <i>Planta</i> , 1996 , 198, 614-622	4.7	106
27	Phloem transport of antirrhinocide, an iridoid glycoside, in <i>Asarina scandens</i> (Scrophulariaceae). <i>Journal of Chemical Ecology</i> , 1995 , 21, 1781-8	2.7	39
26	The Geminivirus BR1 Movement Protein Binds Single-Stranded DNA and Localizes to the Cell Nucleus. <i>Plant Cell</i> , 1994 , 6, 995	11.6	20
25	Effects of Host Plant Development and Genetic Determinants on the Long-Distance Movement of Cauliflower Mosaic Virus in <i>Arabidopsis</i> . <i>Plant Cell</i> , 1993 , 5, 191	11.6	11
24	Movement of virus and photoassimilate in the phloem: a comparative analysis. <i>BioEssays</i> , 1993 , 15, 741-8	4.1	97
23	The intermediary cell: Minor-vein anatomy and raffinose oligosaccharide synthesis in the Scrophulariaceae. <i>Planta</i> , 1993 , 191, 446	4.7	69
22	Changes in Photosynthate Unloading from Perfused Seed Coats of <i>Phaseolus vulgaris</i> L. Induced by Osmoticum and Ethylenediaminetetraacetate (EDTA). <i>Journal of Experimental Botany</i> , 1992 , 43, 1235-1241	7.1	1
21	Quantitative Analysis of Photosynthate Unloading in Developing Seeds of <i>Phaseolus vulgaris</i> L. : II. Pathway and Turgor Sensitivity. <i>Plant Physiology</i> , 1992 , 99, 643-51	6.6	14
20	Effect of high-pressure freezing on plant microfilament bundles. <i>Journal of Microscopy</i> , 1992 , 165, 367-376	7.6	22
19	Localization of galactinol, raffinose, and stachyose synthesis in <i>Cucurbita pepo</i> leaves. <i>Planta</i> , 1992 , 188, 354-61	4.7	60

18	Sugar synthesis and phloem loading in <i>Coleus blumei</i> leaves. <i>Planta</i> , 1992 , 187, 388-94	4.7	25
17	Current perspectives on plasmodesmata: structure and function. <i>Physiologia Plantarum</i> , 1991 , 83, 194-196	4.6	27
16	Routine cryofixation of plant tissue by propane jet freezing for freeze substitution. <i>Journal of Electron Microscopy Technique</i> , 1991 , 19, 107-17		37
15	Transfer cells and solute uptake in minor veins of <i>Pisum sativum</i> leaves. <i>Planta</i> , 1991 , 186, 2-12	4.7	62
14	The evidence for symplastic Phloem loading. <i>Plant Physiology</i> , 1991 , 96, 349-54	6.6	63
13	Phloem Loading in <i>Coleus blumei</i> in the Absence of Carrier-Mediated Uptake of Export Sugar from the Apoplast. <i>Plant Physiology</i> , 1990 , 94, 1244-9	6.6	81
12	Symplastic continuity between mesophyll and companion cells in minor veins of mature <i>Cucurbita pepo</i> L. leaves. <i>Planta</i> , 1989 , 179, 24-31	4.7	83
11	Scintillation counting of ¹⁴ C-labeled soluble and insoluble compounds in plant tissue. <i>Analytical Biochemistry</i> , 1988 , 169, 424-7	3.1	15
10	A morphometric analysis of the phloem-unloading pathway in developing tobacco leaves. <i>Planta</i> , 1988 , 176, 307-18	4.7	75
9	Photoassimilate-transport characteristics of nonchlorophyllous and green tissue in variegated leaves of <i>Coleus blumei</i> Benth. <i>Planta</i> , 1988 , 175, 1-8	4.7	33
8	Different Patterns of Vein Loading of Exogenous [¹⁴ C]Sucrose in Leaves of <i>Pisum sativum</i> and <i>Coleus blumei</i> . <i>Plant Physiology</i> , 1988 , 87, 179-82	6.6	44
7	Termination of nutrient import and development of vein loading capacity in albino tobacco leaves. <i>Plant Physiology</i> , 1984 , 76, 45-8	6.6	41
6	Efflux of sucrose from minor veins of tobacco leaves. <i>Planta</i> , 1984 , 161, 120-8	4.7	25
5	Leaf development and phloem transport in <i>Cucurbita pepo</i> : Maturation of the minor veins. <i>Planta</i> , 1976 , 129, 265-9	4.7	48
4	Ultrastructure of minor veins in <i>Cucurbita pepo</i> leaves. <i>Protoplasma</i> , 1975 , 83, 217-232	3.4	69
3	Leaf development and phloem transport in <i>Cucurbita pepo</i> : Carbon economy. <i>Planta</i> , 1975 , 123, 53-62	4.7	58
2	Differentiation of wound vessel members without DNA synthesis, mitosis or cell division. <i>Nature</i> , 1975 , 257, 806-8	50.4	19
1	Leaf development and phloem transport in <i>Cucurbita pepo</i> : Transition from import to export. <i>Planta</i> , 1973 , 113, 179-91	4.7	83

