

Winfried S Peters

List of Publications by Year in descending order

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78
papers

1,909
citations

279701

23
h-index

265120

42
g-index

80
all docs

80
docs citations

80
times ranked

1501
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible Calcium-Regulated Stopcocks in Legume Sieve Tubes [W]. <i>Plant Cell</i> , 2001, 13, 1221-1230.	3.1	198
2	The Biophysics of Leaf Growth in Salt-Stressed Barley. A Study at the Cell Level. <i>Plant Physiology</i> , 2002, 129, 374-388.	2.3	180
3	ATP-independent contractile proteins from plants. <i>Nature Materials</i> , 2003, 2, 600-603.	13.3	143
4	The electrical response of maize to auxins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1064, 199-204.	1.4	100
5	M ^{1/4} nch, morphology, microfluidics - our structural problem with the phloem. <i>Plant, Cell and Environment</i> , 2010, 33, no-no.	2.8	91
6	The Correlation of Profiles of Surface pH and Elongation Growth in Maize Roots. <i>Plant Physiology</i> , 1999, 121, 905-912.	2.3	79
7	GFP Tagging of Sieve Element Occlusion (SEO) Proteins Results in Green Fluorescent Forisomes. <i>Plant and Cell Physiology</i> , 2008, 49, 1699-1710.	1.5	76
8	SEORious business: structural proteins in sieve tubes and their involvement in sieve element occlusion. <i>Journal of Experimental Botany</i> , 2014, 65, 1879-1893.	2.4	60
9	Biomimetic actuators: where technology and cell biology merge. <i>Cellular and Molecular Life Sciences</i> , 2004, 61, 2497-2509.	2.4	51
10	The History of Tissue Tension. <i>Annals of Botany</i> , 1996, 77, 657-665.	1.4	48
11	Forisomes, a novel type of Ca ²⁺ -dependent contractile protein motor. <i>Cytoskeleton</i> , 2004, 58, 137-142.	4.4	47
12	Forisome performance in artificial sieve tubes. <i>Plant, Cell and Environment</i> , 2012, 35, 1419-1427.	2.8	41
13	Control of Apoplast pH in Corn Coleoptile Segments. I: The Endogenous Regulation of Cell Wall pH. <i>Journal of Plant Physiology</i> , 1991, 137, 655-661.	1.6	38
14	The Determination of Relative Elemental Growth Rate Profiles from Segmental Growth Rates (A) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 2	2.3	38
15	What makes plants different? Principles of extracellular matrix function in <i>soft</i> ™ plant tissues. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2000, 125, 151-167.	0.8	36
16	The geometry of the forisome-sieve element-sieve plate complex in the phloem of <i>Vicia faba</i> L. leaflets. <i>Journal of Experimental Botany</i> , 2006, 57, 3091-3098.	2.4	36
17	The Mechanic State of <i>œl</i> Inner Tissue ^œ in the Growing Zone of Sunflower Hypocotyls and the Regulation of Its Growth Rate Following Excision. <i>Plant Physiology</i> , 2000, 123, 605-612.	2.3	35
18	What actually is the M ^{1/4} nch hypothesis? A short history of assimilate transport by mass flow. <i>Journal of Integrative Plant Biology</i> , 2017, 59, 292-310.	4.1	34

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19	Tailed Forisomes of <i>Canavalia gladiata</i> : A New Model to Study Ca ²⁺ -driven Protein Contractility. <i>Annals of Botany</i> , 2007, 100, 101-109.	1.4	31
20	Legume phylogeny and the evolution of a unique contractile apparatus that regulates phloem transport. <i>American Journal of Botany</i> , 2010, 97, 797-808.	0.8	28
21	Life history, sexual dimorphism and "ornamental" feathers in the mesozoic bird <i>Confuciusornis sanctus</i> . <i>Biology Letters</i> , 2009, 5, 817-820.	1.0	26
22	Control of Apoplast pH in Corn Coleoptile Segments. II: The Effects of Various Auxins and Auxin Analogues. <i>Journal of Plant Physiology</i> , 1991, 137, 691-696.	1.6	25
23	Tailor-made composite functions as tools in model choice: the case of sigmoidal vs bi-linear growth profiles. <i>Plant Methods</i> , 2006, 2, 11.	1.9	25
24	Prospective energy densities in the forisome, a new smart material. <i>Materials Science and Engineering C</i> , 2006, 26, 104-112.	3.8	24
25	Long-distance translocation of photosynthates: a primer. <i>Photosynthesis Research</i> , 2013, 117, 189-196.	1.6	23
26	Sieve-element differentiation and phloem sap contamination. <i>Current Opinion in Plant Biology</i> , 2018, 43, 43-49.	3.5	22
27	Plasmodesmata and the problems with size: Interpreting the confusion. <i>Journal of Plant Physiology</i> , 2021, 257, 153341.	1.6	22
28	The temporal correlation of changes in apoplast pH and growth rate in maize coleoptile segments. <i>Functional Plant Biology</i> , 1998, 25, 21.	1.1	21
29	Anisotropic contraction in forisomes: Simple models won't fit. <i>Cytoskeleton</i> , 2008, 65, 368-378.	4.4	19
30	Auxin-induced H ⁺ -pump stimulation does not depend on the presence of epidermal cells in corn coleoptiles. <i>Planta</i> , 1992, 186, 313-6.	1.6	18
31	Does Growth Correlate with Turgor-Induced Elastic Strain in Stems? A Re-Evaluation of de Vries' Classical Experiments. <i>Plant Physiology</i> , 2001, 125, 2173-2179.	2.3	17
32	Forisome based biomimetic smart materials. <i>Smart Structures and Systems</i> , 2006, 2, 225-235.	1.9	17
33	Pollination of the Crown Imperial <i>Fritillaria imperialis</i> by Great Tits <i>Parus major</i> . <i>Journal Fur Ornithologie</i> , 1995, 136, 207-212.	1.2	16
34	<i>In situ</i> microscopy reveals reversible cell wall swelling in kelp sieve tubes: one mechanism for turgor generation and flow control?. <i>Plant, Cell and Environment</i> , 2016, 39, 1727-1736.	2.8	16
35	GIANTS AMONG MICROMORPHS: WERE CINCINNATIAN (ORDOVICIAN, KATIAN) SMALL SHELLY PHOSPHATIC FAUNAS DWARFED?. <i>Palaos</i> , 2016, 31, 55-70.	0.6	16
36	Sexual size dimorphism is the most consistent explanation for the body size spectrum of <i>Confuciusornis sanctus</i> . <i>Biology Letters</i> , 2010, 6, 531-532.	1.0	15

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37	Research note: Reversible birefringence suggests a role for molecular self-assembly in forisome contractility. <i>Functional Plant Biology</i> , 2007, 34, 302.	1.1	14
38	The behavioural and sensory ecology of <i>Agaronia propatula</i> (Caenogastropoda: Olividae), a swash-surfing predator on sandy beaches of the Panamic faunal province. <i>Journal of Molluscan Studies</i> , 2012, 78, 235-245.	0.4	13
39	Growth rate gradients and extracellular pH in roots: how to control an explosion. <i>New Phytologist</i> , 2004, 162, 571-574.	3.5	11
40	Geometric Constraints and the Anatomical Interpretation of Twisted Plant Organ Phenotypes. <i>Frontiers in Plant Science</i> , 2011, 2, 62.	1.7	11
41	Autotomy of the posterior foot in <i>Agaronia</i> (Caenogastropoda: Olividae) occurs in animals that are fully withdrawn into their shells. <i>Journal of Molluscan Studies</i> , 2011, 77, 437-440.	0.4	10
42	The gelatinous extracellular matrix facilitates transport studies in kelp: visualization of pressure-induced flow reversal across sieve plates. <i>Annals of Botany</i> , 2016, 117, 599-606.	1.4	10
43	Non-dispersive phloem-protein bodies (NPBs) of <i>Populus trichocarpa</i> consist of a SEOR protein and do not respond to cell wounding and Ca ²⁺ . <i>PeerJ</i> , 2018, 6, e4665.	0.9	10
44	What can we learn from confusing <i>Olivella columellaris</i> and <i>O. semistriata</i> (Olivellidae, Gastropoda), two key species in panamic sandy beach ecosystems?. <i>Biota Neotropica</i> , 2012, 12, 101-113.	1.0	9
45	Complexity of the prey spectrum of <i>Agaronia propatula</i> (Caenogastropoda: Olividae), a dominant predator in sandy beach ecosystems of Pacific Central America. <i>PeerJ</i> , 2018, 6, e4714.	0.9	9
46	The diffusive injection micropipette (DIMP). <i>Journal of Plant Physiology</i> , 2020, 244, 153060.	1.6	8
47	IAA breakdown and its effect on auxin-induced cell wall acidification in maize coleoptile segments. <i>Physiologia Plantarum</i> , 1997, 100, 415-422.	2.6	7
48	Cannibalism causes size-dependent intraspecific predation pressure but does not trigger autotomy in the intertidal gastropod <i>Agaronia propatula</i> . <i>Journal of Molluscan Studies</i> , 2015, 81, 388-396.	0.4	7
49	Sieve elements rapidly develop "nacreous walls" following injury – a common wounding response?. <i>Plant Journal</i> , 2020, 102, 797-808.	2.8	7
50	Proteomics of isolated sieve tubes from <i>Nicotiana tabacum</i> : sieve element-specific proteins reveal differentiation of the endomembrane system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2112755119.	3.3	7
51	XET-related genes and growth kinematics in barley leaves. <i>Plant, Cell and Environment</i> , 1999, 22, 331-332.	2.8	6
52	Aspartate Residues in a Forisome-Forming SEO Protein Are Critical for Protein Body Assembly and Ca ²⁺ Responsiveness. <i>Plant and Cell Physiology</i> , 2020, 61, 1699-1710.	1.5	5
53	Wounding-induced cell wall pH shifts in coleoptile segments of various Poaceae. <i>Biologia Plantarum</i> , 1997, 39, 103-108.	1.9	4
54	Think outside the sieve element!. <i>Plant, Cell and Environment</i> , 2016, 39, 707-708.	2.8	4

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55	Diversity of funnel plasmodesmata in angiosperms: the impact of geometry on plasmodesmal resistance. <i>Plant Journal</i> , 2022, 110, 707-719.	2.8	4
56	The cannibalistic snail <i>Agaronia propatula</i> (Caenogastropoda, Mollusca) is reluctant to feed on autotomized "tails" of conspecifics. <i>Marine and Freshwater Behaviour and Physiology</i> , 2014, 47, 285-290.	0.4	3
57	Waders (Scolopacidae) surviving despite malaligned leg fractures in the wild: kinematics of bipedal locomotion. <i>Avian Research</i> , 2017, 8, .	0.5	3
58	Size-dependent locomotory performance creates a behaviorally mediated prey size refuge in the marine snail <i>Olivella semistriata</i> : a study in the natural habitat. <i>Environmental Epigenetics</i> , 2020, 66, 57-62.	0.9	3
59	The lipid origin of cellulose. <i>Trends in Cell Biology</i> , 2002, 12, 159.	3.6	2
60	Separate achievements of the Humboldt brothers. <i>Nature</i> , 2003, 423, 480-480.	13.7	2
61	Forisome as biomimetic smart materials. , 2005, 5765, 97.		2
62	Opportunistic suspension feeding in the intertidal gastropod <i>Olivella columellaris</i> and its implications for the regulation of tidal migrations. <i>Ciencias Marinas</i> , 2016, 42, 289-294.	0.4	2
63	Is anything independent of selection?. <i>Trends in Ecology and Evolution</i> , 1997, 12, 276.	4.2	1
64	Feeding behaviour and the operculum in <i>Olividae</i> (Gastropoda): the case of <i>Callianax biplicata</i> (G. B.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.1	1
65	Symplasmic mass flow and sieve tubes in algae and plants. <i>Perspectives in Phycology</i> , 2017, 4, 93-101.	1.9	1
66	How Münch's adaptation of Pfeffer's circulating water flow became the pressure-flow theory, and the resulting problems " A historical perspective. <i>Journal of Plant Physiology</i> , 2022, 272, 153672.	1.6	1
67	IAA breakdown and its effect on auxin-induced cell wall acidification in maize coleoptile segments. <i>Physiologia Plantarum</i> , 1997, 100, 415-422.	2.6	0
68	Offside researchers score an own goal. <i>Nature</i> , 2000, 405, 508-508.	13.7	0
69	Record-density genome enclosed by multiple membranes. <i>Trends in Cell Biology</i> , 2001, 11, 282.	3.6	0
70	Some don't like it hot. <i>Trends in Cell Biology</i> , 2001, 11, 363.	3.6	0
71	A tale of a traveling transcription factor. <i>Trends in Cell Biology</i> , 2002, 12, 10.	3.6	0
72	Keep them moving!. <i>Trends in Cell Biology</i> , 2002, 12, 410.	3.6	0

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73	Big variety in small RNAs. Trends in Cell Biology, 2002, 12, 547.	3.6	0
74	My embarrassment at not knowing Heinich. Journal of Plant Physiology, 2009, 166, 1713-1716.	1.6	0
75	Looking at a Renegade's Predecessors. Science, 2002, 296, 1237-1237.	6.0	0
76	Biomimetic Proteinaceous Valves in Microfluidics Systems. , 0, 2005, .		0
77	A Root Model Used in Methodical Re-Evaluation of Regr-Profile Determination Techniques. , 1997, , 366-367.		0
78	Predatory suspension feeders: an unusual feeding mode switch in <i>Olivella columellaris</i> (Caenogastropoda: Olividae) and its possible ecological effects. Journal of Molluscan Studies, 2022, 88, .	0.4	0