Sjef C Smeekens

List of Publications by Year
in descending order

122 papers	14,169 citations	19655 61 h-index	20358 116 g-index
252 all docs	252 docs citations	252 times ranked	10935 citing authors

#	Article	IF	Citations
1	Arabidopsis bZIP11 Is a Susceptibility Factor During Pseudomonas syringae Infection. Molecular Plant-Microbe Interactions, 2021, 34, 439-447.	2.6	7
2	The chemical compound â€˜Heatinâ€™ stimulates hypocotyl elongation and interferes with the Arabidopsis NIT1â€subfamily of nitrilases. Plant Journal, 2021, 106, 1523-1540.	5.7	7
3	MYC2-Activated TRICHOME BIREFRINGENCE-LIKE37 Acetylates Cell Walls and Enhances Herbivore Resistance. Plant Physiology, 2020, 184, 1083-1096.	4.8	15
4	Metabolite Control of Translation by Conserved Peptide uORFs: The Ribosome as a Metabolite Multisensor. Plant Physiology, 2020, 182, 110-122.	4.8	36
5	HISTONE DEACETYLASE 9 stimulates auxin-dependent thermomorphogenesis in Arabidopsis thaliana by mediating H2A.Z depletion. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25343-25354.	7.1	91
6	Novel pipeline identifies new upstream ORFs and non-AUG initiating main ORFs with conserved amino acid sequences in the 5â€² leader of mRNAs in Arabidopsis thaliana. Rna, 2019, 25, 292-304.	3.5	33
7	Growing Azolla to produce sustainable protein feed: the effect of differing species and CO₂ concentrations on biomass productivity and chemical composition. Journal of the Science of Food and Agriculture, 2018, 98, 4759-4768.	3.5	48
8	Drought resistance: Spraying for yield. Nature Plants, 2017, 3, 17023.	9.3	7
9	Proteomic LCâ€“MS analysis of Arabidopsis cytosolic ribosomes: Identification of ribosomal protein paralogs and re-annotation of the ribosomal protein genes. Journal of Proteomics, 2015, 128, 436-449.	2.4	42
10	From Leaf to Kernel: Trehalose-6-Phosphate Signaling Moves Carbon in the Field. Plant Physiology, 2015, 169, 912-913.	4.8	30
11	Increased sucrose levels mediate selective mRNA translation in Arabidopsis. BMC Plant Biology, 2014, 14, 306.	3.6	26
12	The ABI4-Induced Arabidopsis ANAC060 Transcription Factor Attenuates ABA Signaling and Renders Seedlings Sugar Insensitive when Present in the Nucleus. PLoS Genetics, 2014, 10, e1004213.	3.5	51
13	Sugar sensing and signaling in plants. Frontiers in Plant Science, 2014, 5, 113.	3.6	104
14	Sugar signals and the control of plant growth and development. Journal of Experimental Botany, 2014, 65, 799-807.	4.8	500
15	ABI4: versatile activator and repressor. Trends in Plant Science, 2013, 18, 125-132.	8.8	142
16	Dynamic protein composition of <scp>A</scp>rabidopsis thaliana cytosolic ribosomes in response to sucrose feeding as revealed by label free <scp>MS</scp>^E proteomics. Proteomics, 2012, 12, 1024-1038.	2.2	101
17	Natural Variation for Seed Longevity and Seed Dormancy Are Negatively Correlated in Arabidopsis Â Â. Plant Physiology, 2012, 160, 2083-2092.	4.8	114
18	Determination of trehalose-6-phosphate in Arabidopsis thaliana seedlings by hydrophilic-interaction liquid chromatographyâ€“mass spectrometry. Analytical and Bioanalytical Chemistry, 2012, 403, 1353-1360.	3.7	21

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19	The sucroseâ€regulated Arabidopsis transcription factor bZIP11 reprograms metabolism and regulates trehalose metabolism. New Phytologist, 2011, 191, 733-745.	7.3	138
20	Capillary electrophoresis-mass spectrometry analysis of trehalose-6-phosphate in Arabidopsis thaliana seedlings. Analytical and Bioanalytical Chemistry, 2011, 400, 1137-1144.	3.7	17
21	Fructose sensitivity is suppressed in Arabidopsis by the transcription factor ANAC089 lacking the membrane-bound domain. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3436-3441.	7.1	112
22	Sugar signals and molecular networks controlling plant growth. Current Opinion in Plant Biology, 2010, 13, 273-278.	7.1	518
23	Sucrose: Metabolite and signaling molecule. Phytochemistry, 2010, 71, 1610-1614.	2.9	272
24	Natural variation for seed dormancy in Arabidopsis is regulated by additive genetic and molecular pathways. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4264-4269.	7.1	194
25	Sucrose-mediated translational control. Annals of Botany, 2009, 104, 1-7.	2.9	71
26	Sucrose Control of Translation Mediated by an Upstream Open Reading Frame-Encoded Peptide Â Â. Plant Physiology, 2009, 150, 1356-1367.	4.8	145
27	Sugar perception and signalingâ€"an update. Current Opinion in Plant Biology, 2009, 12, 562-567.	7.1	196
28	Expression patterns within the Arabidopsis C/S1 bZIP transcription factor network: availability of heterodimerization partners controls gene expression during stress response and development. Plant Molecular Biology, 2009, 69, 107-119.	3.9	139
29	Shoot apical meristem function in Arabidopsis requires the combined activities of three BEL1â€like homeodomain proteins. Plant Journal, 2009, 58, 641-654.	5.7	140
30	Determination of trehalose-6-phosphate in Arabidopsis seedlings by successive extractions followed by anion exchange chromatographyâ€"mass spectrometry. Analytical Biochemistry, 2009, 389, 12-17.	2.4	33
31	The sucrose regulated transcription factor bZIP11 affects amino acid metabolism by regulating the expression of ASPARAGINE SYNTHETASE1 and PROLINE DEHYDROGENASE2. Plant Journal, 2008, 53, 935-949.	5.7	215
32	Interaction between sugar and abscisic acid signalling during early seedling development in Arabidopsis. Plant Molecular Biology, 2008, 67, 151-167.	3.9	133
33	The Arabidopsis GSQ5/DOG1 Cvi allele is induced by the ABAâ€mediated sugar signalling pathway, and enhances sugar sensitivity by stimulating ABI4 expression. Plant Journal, 2008, 55, 372-381.	5.7	58
34	The Arabidopsis TALE homeobox gene ATH1 controls floral competency through positive regulation of FLC. Plant Journal, 2007, 52, 899-913.	5.7	62
35	Sugar effects on early seedling development in Arabidopsis. Plant Growth Regulation, 2007, 52, 217-228.	3.4	40
36	Two-hybrid protein-protein interaction analysis in Arabidopsis protoplasts: establishment of a heterodimerization map of group C and group S bZIP transcription factors. Plant Journal, 2006, 46, 890-900.	5.7	200

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37	Developing fructan-synthesizing capability in a plant invertase via mutations in the sucrose-binding box. Plant Journal, 2006, 48, 228-237.	5.7	62
38	TheArabidopsis thalianaTranscription Factor AtMYB102 Functions in Defense Against The Insect HerbivorePieris rapae. Plant Signaling and Behavior, 2006, 1, 305-311.	2.4	72
39	Molecular and functional characterization of a cDNA encoding fructan:fructan 6G-fructosyltransferase (6G-FFT)/fructan:fructan 1-fructosyltransferase (1-FFT) from perennial ryegrass (Lolium perenne L.). Journal of Experimental Botany, 2006, 57, 2719-2734.	4.8	60
40	Sucrose-induced translational repression of plant bZIP-type transcription factors. Biochemical Society Transactions, 2005, 33, 272-275.	3.4	51
41	Using Natural Variation to Investigate the Function of Individual Amino Acids in the Sucrose-Binding Box of Fructan:Fructan 6G-Fructosyltransferase (6G-FFT) in Product Formation. Plant Molecular Biology, 2005, 58, 597-607.	3.9	23
42	Sucrose-Specific Induction of Anthocyanin Biosynthesis in Arabidopsis Requires the MYB75/PAP1 Gene. Plant Physiology, 2005, 139, 1840-1852.	4.8	593
43	Arabidopsis Trehalose-6-Phosphate Synthase 1 Is Essential for Normal Vegetative Growth and Transition to Flowering. Plant Physiology, 2004, 135, 969-977.	4.8	250
44	Dimerization specificity of all 67 B-ZIP motifs in Arabidopsis thaliana: a comparison to Homo sapiens B-ZIP motifs. Nucleic Acids Research, 2004, 32, 3435-3445.	14.5	107
45	A Conserved Upstream Open Reading Frame Mediates Sucrose-Induced Repression of Translation[W]. Plant Cell, 2004, 16, 1717-1729.	6.6	199
46	Trehalose Mediated Growth Inhibition of Arabidopsis Seedlings Is Due to Trehalose-6-Phosphate Accumulation Â. Plant Physiology, 2004, 135, 879-890.	4.8	293
47	Genetic modification of photosynthesis with E. coli genes for trehalose synthesis. Plant Biotechnology Journal, 2004, 2, 71-82.	8.3	129
48	Production of tailor-made fructans in sugar beet by expression of onion fructosyltransferase genes. Plant Biotechnology Journal, 2004, 2, 321-327.	8.3	60
49	Glucose delays seed germination in Arabidopsis thaliana. Planta, 2004, 218, 579-588.	3.2	131
50	Fructosyltransferase mutants specify a function for the ?-fructosidase motif of the sucrose-binding box in specifying the fructan type synthesized. Plant Molecular Biology, 2004, 54, 853-863.	3.9	20
51	Fructans: beneficial for plants and humans. Current Opinion in Plant Biology, 2003, 6, 223-230.	7.1	293
52	Patterns of fructan synthesized by onion fructanÂ:Âfructan 6Gâ€fructosyltransferase expressed in tobacco BY2 cells â€“ is fructanÂ:Âfructan 1â€fructosyltransferase needed in onion?. New Phytologist, 2003, 160, 61-67.	7.3	49
53	The Effect of Fructan on Membrane Lipid Organization and Dynamics in the Dry State. Biophysical Journal, 2003, 84, 3759-3766.	0.5	49
54	Engineering fructan metabolism in plants. Journal of Plant Physiology, 2003, 160, 811-820.	3.5	71

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55	Trehalose 6-phosphate is indispensable for carbohydrate utilization and growth in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6849-6854.	7.1	447
56	Integration of Wounding and Osmotic Stress Signals Determines the Expression of the AtMYB102 Transcription Factor Gene. Plant Physiology, 2003, 132, 1415-1423.	4.8	191
57	Trehalose-6-phosphate synthase 1, which catalyses the first step in trehalose synthesis, is essential forArabidopsisembryo maturation. Plant Journal, 2002, 29, 225-235.	5.7	333
58	Sucrose Metabolism in Plastids. Plant Physiology, 2001, 125, 926-934.	4.8	66
59	The Arabidopsis SUCROSE UNCOUPLED-6 gene is identical to ABSCISIC ACID INSENSITIVE-4: involvement of abscisic acid in sugar responses. Plant Journal, 2000, 23, 577-585.	5.7	231
60	Characterization of three cloned and expressed 13-hydroperoxide lyase isoenzymes from alfalfa with unusual N-terminal sequences and different enzyme kinetics. FEBS Journal, 2000, 267, 2473-2482.	0.2	65
61	Plant fructokinases: a sweet family get-together. Trends in Plant Science, 2000, 5, 531-536.	8.8	135
62	SUGAR-INDUCEDSIGNALTRANSDUCTION INPLANTS. Annual Review of Plant Biology, 2000, 51, 49-81.	14.3	677
63	A bipartite sequence element associated with matrix/scaffold attachment regions. Nucleic Acids Research, 1999, 27, 2924-2930.	14.5	59
64	Mannose Inhibits Arabidopsis Germination via a Hexokinase-Mediated Step1. Plant Physiology, 1999, 119, 1017-1024.	4.8	167
65	Function Search in a Large Transcription Factor Gene Family in Arabidopsis: Assessing the Potential of Reverse Genetics to Identify Insertional Mutations in R2R3 MYB Genes. Plant Cell, 1999, 11, 1827-1840.	6.6	151
66	Fructan: More Than a Reserve Carbohydrate?1. Plant Physiology, 1999, 120, 351-360.	4.8	505
67	Function Search in a Large Transcription Factor Gene Family in Arabidopsis: Assessing the Potential of Reverse Genetics to Identify Insertional Mutations in R2R3 MYB Genes. Plant Cell, 1999, 11, 1827.	6.6	13
68	Expression of fructosyltransferase genes in transgenic plants. , 1999, , 227-237.		0
69	The light-regulated Arabidopsis bZIP transcription factor gene ATB2 encodes a protein with an unusually long leucine zipper domain. Plant Molecular Biology, 1998, 37, 171-178.	3.9	62
70	A convert to fructans in sugar beet. Nature Biotechnology, 1998, 16, 822-823.	17.5	7
71	Sugar regulation of gene expression in plants. Current Opinion in Plant Biology, 1998, 1, 230-234.	7.1	152
72	Sensing trehalose biosynthesis in plants. Plant Journal, 1998, 14, 143-146.	5.7	113

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73	Sucrose-specific signalling represses translation of the Arabidopsis ATB2 bZIP transcription factor gene. Plant Journal, 1998, 15, 253-263.	5.7	233
74	Towards functional characterisation of the members of theR2R3-MYBgene family fromArabidopsis thaliana. Plant Journal, 1998, 16, 263-276.	5.7	554
75	Cloning of Sucrose:Sucrose 1-Fructosyltransferase from Onion and Synthesis of Structurally Defined Fructan Molecules from Sucrose1. Plant Physiology, 1998, 117, 1507-1513.	4.8	74
76	Sucrose is a signalling molecule in plants. , 1998, , 2771-2776.		0
77	Analysis of the Chromatin Domain Organisation Around the Plastocyanin Gene Reveals an MAR-Specific Sequence Element in Arabidopsis Thaliana. Nucleic Acids Research, 1997, 25, 3904-3911.	14.5	50
78	Sugar Sensing and Sugar-Mediated Signal Transduction in Plants. Plant Physiology, 1997, 115, 7-13.	4.8	239
79	Engineering plant metabolism. Trends in Plant Science, 1997, 2, 286-287.	8.8	23
80	Fructan of the inulin neoseries is synthesized in transgenic chicory plants (Cichorium intybus L.) harbouring onion (Allium cepa L.) fructan:fructan 6G-fructosyltransferase. Plant Journal, 1997, 11, 387-398.	5.7	136
81	An Arabidopsis mutant showing reduced feedback inhibition of photosynthesis. Plant Journal, 1997, 12, 1011-1020.	5.7	46
82	Fructans. Annals of the New York Academy of Sciences, 1996, 792, 20-25.	3.8	3
83	Sucrose Represses the Developmentally Controlled Transient Activation of the Plastocyanin Gene in Arabidopsis thaliana Seedlings. Plant Physiology, 1996, 110, 455-463.	4.8	68
84	Microbial fructan production in transgenic potato plants and tubers. Industrial Crops and Products, 1996, 5, 35-46.	5.2	37
85	A Tobacco Nuclear Protein that Preferentially Binds to Unmethylated CpG-rich DNA. FEBS Journal, 1996, 235, 585-592.	0.2	4
86	Identification of a light-regulated MYB gene from an Arabidopsis transcription factor gene collection. Plant Molecular Biology, 1996, 32, 987-993.	3.9	23
87	Improved Performance of Transgenic Fructan-Accumulating Tobacco under Drought Stress. Plant Physiology, 1995, 107, 125-130.	4.8	459
88	Light-regulated expression of the Arabidopsis thaliana ferredoxin gene requires sequences upstream and downstream of the transcription initiation site. Plant Molecular Biology, 1995, 27, 27-39.	3.9	39
89	The homeobox gene ATK1 of Arabidopsis thaliana is expressed in the shoot apex of the seedling and in flowers and inflorescence stems of mature plants. Plant Molecular Biology, 1995, 28, 723-737.	3.9	62
90	Metabolism of starch synthesis in developing grains of the shx shrunken mutant of barley (Hordeum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.2	15

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91	The Homeobox Gene ATH1 of Arabidopsis Is Derepressed in the Photomorphogenic Mutants cop1 and det1. Plant Cell, 1995, 7, 117.	6.6	19
92	Fructan as a New Carbohydrate Sink in Transgenic Potato Plants. Plant Cell, 1994, 6, 561.	6.6	18
93	Identification of potential regulatory elements in the far-upstream region of the Arabidopsis thaliana plastocyanin promoter. Plant Molecular Biology, 1994, 26, 873-886.	3.9	11
94	Accumulation of Fructose Polymers in Transgenic Tobacco. Bio/technology, 1994, 12, 272-275.	1.5	82
95	The promoter of the Arabidopsis thaliana plastocyanin gene contains a far upstream enhancer-like element involved in chloroplast-dependent expression. Plant Journal, 1993, 4, 933-945.	5.7	41
96	Light-regulated expression of theArabidopsis thaliana ferredoxin Agene involves both transcriptional and post-transcriptional processes. Plant Journal, 1993, 3, 793-803.	5.7	43
97	Molecular biology of fructan accumulation in plants. Biochemical Society Transactions, 1991, 19, 565-569.	3.4	12
98	Protein Import into and Sorting inside the Chloroplast Are Independent Processes. Plant Cell, 1990, 2, 479.	6.6	27
99	Tissue-specific expression directed by an Arabidopsis thaliana pre-ferredoxin promoter in transgenic tobacco plants. Plant Molecular Biology, 1990, 14, 491-499.	3.9	43
100	Protein Import into and Sorting inside the Chloroplast Are Independent Processes.. Plant Cell, 1990, 2, 479-494.	6.6	83
101	Protein transport into and within chloroplasts. Trends in Biochemical Sciences, 1990, 15, 73-76.	7.5	120
102	Tissue Specific Activity of Arabidopsis Thaliana Plastocyanin and Ferredoxin Promoter Elements in Transgenic Tobacco Plants. , 1990, , 2479-2481.		0
103	Import of proteins into the chloroplast lumen. Journal of Cell Science, 1989, 1989, 199-223.	2.0	20
104	Studies on the Entry of Fructose-2,6-Bisphosphate into Chloroplasts. Plant Physiology, 1989, 89, 1270-1274.	4.8	5
105	Essential function in chloroplast recognition of the ferredoxin transit peptide processing region. Molecular Genetics and Genomics, 1989, 216, 178-182.	2.4	37
106	Protein transport towards the thylakoid lumen: post-translational translocation in tandem. Photosynthesis Research, 1988, 16, 177-186.	2.9	37
107	Plastocyanin of Arabidopsis thaliana; isolation and characterization of the gene and chloroplast import of the precursor protein. Gene, 1988, 65, 59-69.	2.2	56
108	In vivo import of plastocyanin and a fusion protein into developmentally different plastids of transgenic plants. EMBO Journal, 1988, 7, 2631-2635.	7.8	52

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109	Protein Transport in Plant Cells. Plant Gene Research, 1988, , 275-295.	0.4	1
110	Protein transport towards the thylakoid lumen: post-translational translocation in tandem. , 1988, , 735-744.		0
111	Import into chloroplasts of a yeast mitochondrial protein directed by ferredoxin and plastocyanin transit peptides. Plant Molecular Biology, 1987, 9, 377-388.	3.9	60
112	Chloroplast-Specific Import and Routing of Proteins. , 1987, , 77-91.		2
113	Transport and Processing of Ferredoxin and Plastocyanin: A Thylakoid-Specific Processing Enzyme. , 1987, , 569-572.		0
114	The role of the transit peptide in the routing of precursors toward different chloroplast compartments. Cell, 1986, 46, 365-375.	28.9	364
115	A thylakoid processing protease is required for complete maturation of the lumen protein plastocyanin. Nature, 1986, 324, 567-569.	27.8	172
116	The plant ferredoxin precursor: nucleotide sequence of a full length cDNA clone. Nucleic Acids Research, 1985, 13, 3179-3194.	14.5	134
117	Sequence of the precursor of the chloroplast thylakoid lumen protein plastocyanin. Nature, 1985, 317, 456-458.	27.8	149
118	Sequence and topology of a model intracellular membrane protein, E1 glycoprotein, from a coronavirus. Nature, 1984, 308, 751-752.	27.8	206
119	Cloning and Sequencing the Nucleocapsid and E1 Genes of Coronavirus. Advances in Experimental Medicine and Biology, 1984, 173, 155-162.	1.6	11
120	Transcription Strategy of Coronaviruses: Fusion of Non-Contiguous Sequences During mRNA Synthesis. Advances in Experimental Medicine and Biology, 1984, 173, 173-186.	1.6	17
121	Sequence of the nucleocapsid gene from murine coronavirus MHV-A59. Nucleic Acids Research, 1983, 11, 883-891.	14.5	78
122	Coronavirus mRNA synthesis involves fusion of non-contiguous sequences.. EMBO Journal, 1983, 2, 1839-1844.	7.8	257