

# Sofie Goormachtig

## List of Publications by Year in descending order

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83  
papers

5,315  
citations

87888

38  
h-index

91884

69  
g-index

86  
all docs

86  
docs citations

86  
times ranked

5487  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcriptional machineries in jasmonate-elicited plant secondary metabolism. Trends in Plant Science, 2012, 17, 349-359.	8.8	467
2	CLE Peptides Control <i>Medicago truncatula</i> Nodulation Locally and Systemically. Plant Physiology, 2010, 153, 222-237.	4.8	293
3	Strigolactones Suppress Adventitious Rooting in Arabidopsis and Pea. Plant Physiology, 2012, 158, 1976-1987.	4.8	286
4	Plant flavones enrich rhizosphere Oxalobacteraceae to improve maize performance under nitrogen deprivation. Nature Plants, 2021, 7, 481-499.	9.3	247
5	<i>Streptomyces</i> as a plant's best friend?. FEMS Microbiology Ecology, 2016, 92, fiw119.	2.7	228
6	Aging in Legume Symbiosis. A Molecular View on Nodule Senescence in <i>Medicago truncatula</i> . Plant Physiology, 2006, 141, 711-720.	4.8	214
7	Strigolactones Are Involved in Root Response to Low Phosphate Conditions in Arabidopsis. Plant Physiology, 2012, 160, 1329-1341.	4.8	191
8	Reactive oxygen species and ethylene play a positive role in lateral root base nodulation of a semiaquatic legume. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11789-11794.	7.1	177
9	Dynamic Changes in ANGLUSTIFOLIA3 Complex Composition Reveal a Growth Regulatory Mechanism in the Maize Leaf. Plant Cell, 2015, 27, 1605-1619.	6.6	154
10	Never too many? How legumes control nodule numbers. Plant, Cell and Environment, 2012, 35, 245-258.	5.7	131
11	Switch from intracellular to intercellular invasion during water stress-tolerant legume nodulation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6303-6308.	7.1	121
12	Nodule numbers are governed by interaction between CLE peptides and cytokinin signaling. Plant Journal, 2012, 70, 367-376.	5.7	115
13	SrSymRK, a plant receptor essential for symbiosome formation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10369-10374.	7.1	113
14	Comparison of Developmental and Stress-Induced Nodule Senescence in <i>Medicago truncatula</i> . Plant Physiology, 2010, 152, 1574-1584.	4.8	102
15	From lateral root density to nodule number, the strigolactone analogue GR24 shapes the root architecture of <i>Medicago truncatula</i> . Journal of Experimental Botany, 2015, 66, 137-146.	4.8	97
16	The Plant PTM Viewer, a central resource for exploring plant protein modifications. Plant Journal, 2019, 99, 752-762.	5.7	97
17	<i>WUSCHEL-RELATED HOMEBOX5</i> Gene Expression and Interaction of CLE Peptides with Components of the Systemic Control Add Two Pieces to the Puzzle of Autoregulation of Nodulation. Plant Physiology, 2012, 158, 1329-1341.	4.8	96
18	infection: lessons from the versatile nodulation behaviour of water-tolerant legumes. Trends in Plant Science, 2004, 9, 518-522.	8.8	95

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19	Srchi13, a Novel Early Nodulin from <i>Sesbania rostrata</i> , Is Related to Acidic Class III Chitinases. <i>Plant Cell</i> , 1998, 10, 905-915.	6.6	86
20	New Strigolactone Analogs as Plant Hormones with Low Activities in the Rhizosphere. <i>Molecular Plant</i> , 2014, 7, 675-690.	8.3	84
21	It's Time for Some "Seeing": Novel Tools to Monitor the Ubiquitin Landscape in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2016, 28, 6-16.	6.6	84
22	Role of <i>LONELY GUY</i> genes in indeterminate nodulation on <i>Medicago truncatula</i> . <i>New Phytologist</i> , 2014, 202, 582-593.	7.3	81
23	Gibberellins Are Involved in Nodulation of <i>Sesbania rostrata</i> . <i>Plant Physiology</i> , 2005, 139, 1366-1379.	4.8	79
24	Exploring the protein-protein interaction landscape in plants. <i>Plant, Cell and Environment</i> , 2019, 42, 387-409.	5.7	76
25	Calcium Spiking Patterns and the Role of the Calcium/Calmodulin-Dependent Kinase CCaMK in Lateral Root Base Nodulation of <i>Sesbania rostrata</i> . <i>Plant Cell</i> , 2009, 21, 1526-1540.	6.6	75
26	Use of Differential Display to Identify Novel <i>Sesbania rostrata</i> Genes Enhanced by <i>Azorhizobium cauii</i> nodans Infection. <i>Molecular Plant-Microbe Interactions</i> , 1995, 8, 816.	2.6	74
27	Combining linkage and association mapping identifies <i>RECEPTOR-LIKE PROTEIN KINASE1</i> as an essential <i>Arabidopsis</i> shoot regeneration gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8305-8310.	7.1	63
28	Tapping into the maize root microbiome to identify bacteria that promote growth under chilling conditions. <i>Microbiome</i> , 2020, 8, 54.	11.1	63
29	Strigolactones, karrikins and beyond. <i>Plant, Cell and Environment</i> , 2017, 40, 1691-1703.	5.7	61
30	Strigolactones spatially influence lateral root development through the cytokinin signaling network. <i>Journal of Experimental Botany</i> , 2016, 67, 379-389.	4.8	58
31	Daring to be differential: metabarcoding analysis of soil and plant-related microbial communities using amplicon sequence variants and operational taxonomical units. <i>BMC Genomics</i> , 2020, 21, 733.	2.8	58
32	A COFRADIC Protocol To Study Protein Ubiquitination. <i>Journal of Proteome Research</i> , 2014, 13, 3107-3113.	3.7	57
33	Strigolactones fine-tune the root system. <i>Planta</i> , 2013, 238, 615-626.	3.2	55
34	Expression of Cell Cycle Genes During <i>Sesbania rostrata</i> Stem Nodule Development. <i>Molecular Plant-Microbe Interactions</i> , 1997, 10, 316-325.	2.6	53
35	Strigolactones as an auxiliary hormonal defence mechanism against leafy gall syndrome in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 5123-5134.	4.8	53
36	A Fluorescent Alternative to the Synthetic Strigolactone GR24. <i>Molecular Plant</i> , 2013, 6, 100-112.	8.3	50

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37	Transcriptional and post-transcriptional regulation of a NAC1 transcription factor in <i>Medicago truncatula</i> roots. <i>New Phytologist</i> , 2011, 191, 647-661.	7.3	47
38	<i>Paenibacillus polymyxa</i> , a Jack of all trades. <i>Environmental Microbiology</i> , 2021, 23, 5659-5669.	3.8	47
39	Unraveling new molecular players involved in the autoregulation of nodulation in <i>Medicago truncatula</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 1407-1417.	4.8	41
40	Patterns of ENOD40 gene expression in stem-borne nodules of <i>Sesbania rostrata</i> . <i>Plant Molecular Biology</i> , 1998, 37, 67-76.	3.9	39
41	Seed germination in parasitic plants: what insights can we expect from strigolactone research?. <i>Journal of Experimental Botany</i> , 2018, 69, 2265-2280.	4.8	39
42	CYP707As are effectors of karrikin and strigolactone signalling pathways in <i>Arabidopsis thaliana</i> and parasitic plants. <i>Plant, Cell and Environment</i> , 2019, 42, 2612-2626.	5.7	39
43	A Symbiotic Plant Peroxidase Involved in Bacterial Invasion of the Tropical Legume <i>Sesbania rostrata</i> . <i>Plant Physiology</i> , 2007, 144, 717-727.	4.8	33
44	The Whats, the Wheres and the Hows of strigolactone action in the roots. <i>Planta</i> , 2016, 243, 1327-1337.	3.2	33
45	Plant Growth Promotion Driven by a Novel <i>Caulobacter</i> Strain. <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 1162-1174.	2.6	31
46	A <i>Phelipanche ramosa</i> KAI2 protein perceives strigolactones and isothiocyanates enzymatically. <i>Plant Communications</i> , 2021, 2, 100166.	7.7	31
47	Search for nodulation-related CLE genes in the genome of <i>Glycine max</i> . <i>Journal of Experimental Botany</i> , 2011, 62, 2571-2583.	4.8	30
48	<i>Agrobacterium rhizogenes</i> -mediated transformation of <i>Sesbania rostrata</i> . <i>Plant Science</i> , 2003, 165, 1281-1288.	3.6	29
49	The Response of the Root Proteome to the Synthetic Strigolactone GR24 in <i>Arabidopsis</i> . <i>Molecular and Cellular Proteomics</i> , 2016, 15, 2744-2755.	3.8	28
50	Chalcone reductase-homologous transcripts accumulate during development of stem-borne nodules on the tropical legume <i>Sesbania rostrata</i> . <i>Planta</i> , 1999, 209, 45-52.	3.2	27
51	Strigolactones in the Rhizosphere: Friend or Foe?. <i>Molecular Plant-Microbe Interactions</i> , 2017, 30, 683-690.	2.6	26
52	Patterns of Pectin Methylesterase Transcripts in Developing Stem Nodules of <i>Sesbania rostrata</i> . <i>Molecular Plant-Microbe Interactions</i> , 2002, 15, 164-168.	2.6	25
53	Signaling and Gene Expression for Water-Tolerant Legume Nodulation. <i>Critical Reviews in Plant Sciences</i> , 2006, 25, 367-380.	5.7	22
54	Srchi24, A Chitinase Homolog Lacking an Essential Glutamic Acid Residue for Hydrolytic Activity, Is Induced during Nodule Development on <i>Sesbania rostrata</i> . <i>Plant Physiology</i> , 2001, 127, 78-89.	4.8	21

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55	Isolation of protein complexes from the model legume <i>Medicago truncatula</i> by tandem affinity purification in hairy root cultures. <i>Plant Journal</i> , 2016, 88, 476-489.	5.7	20
56	Nodule-enhanced protease inhibitor gene: emerging patterns of gene expression in nodule development on <i>Sesbania rostrata</i> . <i>Journal of Experimental Botany</i> , 2003, 55, 89-97.	4.8	18
57	Comparative Transcriptome Analysis Reveals Common and Specific Tags for Root Hair and Crack-Entry Invasion in <i>Sesbania rostrata</i> . <i>Plant Physiology</i> , 2007, 144, 1878-1889.	4.8	18
58	Recent Progress in Development of Tnt1 Functional Genomics Platform for <i>Medicago truncatula</i> and <i>Lotus japonicus</i> in Bulgaria. <i>Current Genomics</i> , 2011, 12, 147-152.	1.6	18
59	Standardization of Plant Microbiome Studies: Which Proportion of the Microbiota is Really Harvested?. <i>Microorganisms</i> , 2020, 8, 342.	3.6	17
60	The Symbiotic Interaction between <i>Azorhizobium caulinodans</i> and <i>Sesbania rostrata</i> . <i>Sub-Cellular Biochemistry</i> , 1998, 29, 117-164.	2.4	15
61	Plant hormone signalling through the eye of the mass spectrometer. <i>Proteomics</i> , 2015, 15, 1113-1126.	2.2	13
62	Quantitative Tandem Affinity Purification, an Effective Tool to Investigate Protein Complex Composition in Plant Hormone Signaling: Strigolactones in the Spotlight. <i>Frontiers in Plant Science</i> , 2018, 9, 528.	3.6	13
63	Masks Start to Drop: Suppressor of MAX2 1-Like Proteins Reveal Their Many Faces. <i>Frontiers in Plant Science</i> , 2022, 13, .	3.6	12
64	The Role of Strigolactones in Plant-Microbe Interactions. , 2019, , 121-142.		11
65	Unraveling the MAX2 Protein Network in <i>Arabidopsis thaliana</i> : Identification of the Protein Phosphatase PAPP5 as a Novel MAX2 Interactor. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100040.	3.8	11
66	Nodulation-enhanced sequences from the water stress-tolerant tropical legume <i>Sesbania rostrata</i> . <i>Plant Science</i> , 2004, 167, 207-216.	3.6	10
67	The MYB transcription factor Emission of Methyl Anthranilate 1 stimulates emission of methyl anthranilate from <i>Medicago truncatula</i> hairy roots. <i>Plant Journal</i> , 2019, 99, 637-654.	5.7	10
68	Processes underlying branching differences in fodder crops. <i>Euphytica</i> , 2014, 195, 301-313.	1.2	9
69	MtNRLK1, a CLAVATA1-like leucine-rich repeat receptor-like kinase upregulated during nodulation in <i>Medicago truncatula</i> . <i>Scientific Reports</i> , 2018, 8, 2046.	3.3	9
70	Strigolactones as Plant Hormones. , 2019, , 47-87.		9
71	The Early Nodulin Gene ENOD2 Shows Different Expression Patterns During <i>Sesbania rostrata</i> Stem Nodule Development. <i>Molecular Plant-Microbe Interactions</i> , 1998, 11, 237-241.	2.6	8
72	Interactions between soil compositions and the wheat root microbiome under drought stress: From an in silico to in planta perspective. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 4235-4247.	4.1	7

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73	Bioassays for the Effects of Strigolactones and Other Small Molecules on Root and Root Hair Development. <i>Methods in Molecular Biology</i> , 2021, 2309, 129-142.	0.9	7
74	<i>Stenotrophomonas</i> sp. SRS1 promotes growth of <i>Arabidopsis</i> and tomato plants under salt stress conditions. <i>Plant and Soil</i> , 2022, 473, 547-571.	3.7	7
75	Assessment of the function and expression pattern of auxin response factor B3 in the model legume plant <i>Medicago truncatula</i> . <i>Turkish Journal of Biology</i> , 2017, 41, 66-76.	0.8	6
76	Design and visualization of second-generation cyanoisindole-based fluorescent strigolactone analogs. <i>Plant Journal</i> , 2019, 98, 165-180.	5.7	6
77	Flemish soils contain rhizobia partners for Northwestern Europe-adapted soybean cultivars. <i>Environmental Microbiology</i> , 2022, 24, 3334-3354.	3.8	6
78	A common F-box gene regulates the leucine homeostasis of <i>Medicago truncatula</i> and <i>Arabidopsis thaliana</i> . <i>Protoplasma</i> , 2022, 259, 277-290.	2.1	5
79	Transcriptional Analysis in the <i>Arabidopsis</i> Roots Reveals New Regulators that Link <i>rac</i> -GR24 Treatment with Changes in Flavonol Accumulation, Root Hair Elongation and Lateral Root Density. <i>Plant and Cell Physiology</i> , 2022, 63, 104-119.	3.1	5
80	Drops join to make a stream: high-throughput nanoscale cultivation to grasp the lettuce root microbiome. <i>Environmental Microbiology Reports</i> , 2022, 14, 60-69.	2.4	4
81	<i>MAX2</i> -dependent competence for callus formation and shoot regeneration from <i>Arabidopsis thaliana</i> root explants. <i>Journal of Experimental Botany</i> , 2022, 73, 6272-6291.	4.8	4
82	Identification of putative CLE peptide receptors involved in determinate nodulation on soybean. <i>Plant Signaling and Behavior</i> , 2011, 6, 1019-1023.	2.4	2
83	Diagonal chromatography to study plant protein modifications. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 945-951.	2.3	0