Thomas Ott

List of Publications by Year
in descending order

55 papers	5,777 citations	94433 37 h-index	168389 53 g-index
70 all docs	70 docs citations	70 times ranked	5716 citing authors

#	Article	IF	Citations
1	A gene expression atlas of the model legume Medicago truncatula. Plant Journal, 2008, 55, 504-513.	5.7	668
2	MtHAP2-1 is a key transcriptional regulator of symbiotic nodule development regulated by microRNA169 in Medicago truncatula. Genes and Development, 2006, 20, 3084-3088.	5.9	450
3	Remorin, a Solanaceae Protein Resident in Membrane Rafts and Plasmodesmata, ImpairsPotato virus XMovement. Plant Cell, 2009, 21, 1541-1555.	6.6	352
4	Symbiotic Leghemoglobins Are Crucial for Nitrogen Fixation in Legume Root Nodules but Not for General Plant Growth and Development. Current Biology, 2005, 15, 531-535.	3.9	350
5	A remorin protein interacts with symbiotic receptors and regulates bacterial infection. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2343-2348.	7.1	316
6	Global changes in transcription orchestrate metabolic differentiation during symbiotic nitrogen fixation inLotus japonicus. Plant Journal, 2004, 39, 487-512.	5.7	292
7	The Sulfate Transporter SST1 Is Crucial for Symbiotic Nitrogen Fixation in Lotus japonicus Root Nodules. Plant Cell, 2005, 17, 1625-1636.	6.6	227
8	Plant immune and growth receptors share common signalling components but localise to distinct plasma membrane nanodomains. ELife, 2017, 6, .	6.0	206
9	Plasma Membranes Are Subcompartmentalized into a Plethora of Coexisting and Diverse Microdomains inArabidopsisandNicotiana benthamianaÂ Â. Plant Cell, 2014, 26, 1698-1711.	6.6	180
10	Genome-Wide Annotation of Remorins, a Plant-Specific Protein Family: Evolutionary and Functional Perspectives. Plant Physiology, 2007, 145, 593-600.	4.8	164
11	Maleâ€“female communication triggers calcium signatures during fertilization in Arabidopsis. Nature Communications, 2014, 5, 4645.	12.8	146
12	Dissection of Symbiosis and Organ Development by Integrated Transcriptome Analysis of Lotus japonicus Mutant and Wild-Type Plants. PLoS ONE, 2009, 4, e6556.	2.5	134
13	A Modular Plasmid Assembly Kit for Multigene Expression, Gene Silencing and Silencing Rescue in Plants. PLoS ONE, 2014, 9, e88218.	2.5	115
14	Perspectives on Remorin Proteins, Membrane Rafts, and Their Role During Plantâ€“Microbe Interactions. Molecular Plant-Microbe Interactions, 2011, 24, 7-12.	2.6	114
15	Transcription Reprogramming during Root Nodule Development in Medicago truncatula. PLoS ONE, 2011, 6, e16463.	2.5	102
16	Regulation of signal transduction and bacterial infection during root nodule symbiosis. Current Opinion in Plant Biology, 2011, 14, 458-467.	7.1	102
17	Functional Domain Analysis of the Remorin Protein LjSYMREM1 in Lotus japonicus. PLoS ONE, 2012, 7, e30817.	2.5	102
18	The Nanoscale Organization of the Plasma Membrane and Its Importance in Signaling: A Proteolipid Perspective. Plant Physiology, 2020, 182, 1682-1696.	4.8	93

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19	Establishment of Proximity-Dependent Biotinylation Approaches in Different Plant Model Systems. Plant Cell, 2020, 32, 3388-3407.	6.6	91
20	Lipid exchanges drove the evolution of mutualism during plant terrestrialization. Science, 2021, 372, 864-868.	12.6	90
21	The C2-domain protein QUIRKY and the receptor-like kinase STRUBBELIG localize to plasmodesmata and mediate tissue morphogenesis in Arabidopsis thaliana. Development (Cambridge), 2014, 141, 4139-4148.	2.5	88
22	The Intrinsically Disordered N-terminal Region of AtREM1.3 Remorin Protein Mediates Protein-Protein Interactions. Journal of Biological Chemistry, 2012, 287, 39982-39991.	3.4	86
23	Membrane nanodomains and microdomains in plantâ€“microbe interactions. Current Opinion in Plant Biology, 2017, 40, 82-88.	7.1	83
24	Symbiotic root infections in Medicago truncatula require remorin-mediated receptor stabilization in membrane nanodomains. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5289-5294.	7.1	80
25	Characterisation of antioxidative systems in the ectomycorrhiza-building basidiomycete Paxillus involutus (Bartsch) Fr. and its reaction to cadmium. FEMS Microbiology Ecology, 2002, 42, 359-366.	2.7	78
26	Intrinsic Disorder in Pathogen Effectors: Protein Flexibility as an Evolutionary Hallmark in a Molecular Arms Race. Plant Cell, 2013, 25, 3153-3157.	6.6	76
27	Regulation of the photosynthetic electron transport chain. Planta, 1999, 209, 250-258.	3.2	73
28	Optogenetic control of gene expression in plants in the presence of ambient white light. Nature Methods, 2020, 17, 717-725.	19.0	72
29	Green light for quantitative live-cell imaging in plants. Journal of Cell Science, 2018, 131, .	2.0	71
30	Sâ€acylation anchors remorin proteins to the plasma membrane but does not primarily determine their localization in membrane microdomains. New Phytologist, 2014, 203, 758-769.	7.3	62
31	Phosphorylation of Intrinsically Disordered Regions in Remorin Proteins. Frontiers in Plant Science, 2012, 3, 86.	3.6	57
32	Absence of Symbiotic Leghemoglobins Alters Bacteroid and Plant Cell Differentiation During Development of Lotus japonicus Root Nodules. Molecular Plant-Microbe Interactions, 2009, 22, 800-808.	2.6	55
33	A GmNINa-miR172c-NNC1 Regulatory Network Coordinates the Nodulation and Autoregulation ofÂNodulation Pathways in Soybean. Molecular Plant, 2019, 12, 1211-1226.	8.3	54
34	Metabolism of Reactive Oxygen Species Is Attenuated in Leghemoglobin-Deficient Nodules of Lotus japonicus. Molecular Plant-Microbe Interactions, 2007, 20, 1596-1603.	2.6	53
35	Cellâ€autonomous defense, reâ€organization and trafficking of membranes in plantâ€“microbe interactions. New Phytologist, 2014, 204, 815-822.	7.3	47
36	Spatial and Temporal Organization of Sucrose Metabolism in Lotus japonicus Nitrogen-Fixing Nodules Suggests a Role for the Elusive Alkaline/Neutral Invertase. Plant Molecular Biology, 2006, 62, 53-69.	3.9	40

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37	Intrinsic Disorder in Plant Proteins and Phytopathogenic Bacterial Effectors. Chemical Reviews, 2014, 114, 6912-6932.	47.7	39
38	Lotus japonicus LjKUP Is Induced Late During Nodule Development and Encodes a Potassium Transporter of the Plasma Membrane. Molecular Plant-Microbe Interactions, 2004, 17, 789-797.	2.6	38
39	Identification of New Potential Regulators of the Medicago truncatulaâ€"Sinorhizobium meliloti Symbiosis Using a Large-Scale Suppression Subtractive Hybridization Approach. Molecular Plant-Microbe Interactions, 2007, 20, 321-332.	2.6	35
40	Mutant analysis in the nonlegume Parasponia andersonii identifies NIN and NFâ€YA1 transcription factors as a core genetic network in nitrogenâ€fixing nodule symbioses. New Phytologist, 2020, 226, 541-554.	7.3	32
41	Molecular principles of membrane microdomain targeting in plants. Trends in Plant Science, 2015, 20, 351-361.	8.8	31
42	Exocyst subunit Exo70B2 is linked to immune signaling and autophagy. Plant Cell, 2021, 33, 404-419.	6.6	31
43	Ascorbate oxidase: The unexpected involvement of a â€˜wasteful enzymeâ€™ in the symbioses with nitrogen-fixing bacteria and arbuscular mycorrhizal fungi. Plant Physiology and Biochemistry, 2012, 59, 71-79.	5.8	26
44	Distinct signaling routes mediate intercellular and intracellular rhizobial infection inLotus japonicus. Plant Physiology, 2021, 185, 1131-1147.	4.8	26
45	The Medicago truncatula DREPP Protein Triggers Microtubule Fragmentation in Membrane Nanodomains during Symbiotic Infections. Plant Cell, 2020, 32, 1689-1702.	6.6	23
46	Defects in Rhizobial Cyclic Glucan and Lipopolysaccharide Synthesis Alter Legume Gene Expression During Nodule Development. Molecular Plant-Microbe Interactions, 2008, 21, 50-60.	2.6	21
47	Commonalities and Differences in Controlling Multipartite Intracellular Infections of Legume Roots by Symbiotic Microbes. Plant and Cell Physiology, 2018, 59, 666-677.	3.1	21
48	Formin-mediated bridging of cell wall, plasma membrane, and cytoskeleton in symbiotic infections of Medicago truncatula. Current Biology, 2021, 31, 2712-2719.e5.	3.9	20
49	The plasma membraneâ€"associated Ca²⁺â€bindingâ€‰protein,<scp>PCaP1,</scp>is required for oligogalacturonide and flagellinâ€induced priming and immunity. Plant, Cell and Environment, 2021, 44, 3078-3093.	5.7	12
50	Plasticity of plasma membrane compartmentalization during plant immune responses. Frontiers in Plant Science, 2012, 3, 181.	3.6	11
51	Quantitative Image Analysis of Membrane Microdomains Labelled by Fluorescently Tagged Proteins in Arabidopsis thaliana and Nicotiana benthamiana. Bio-protocol, 2015, 5, .	0.4	4
52	Characterisation of antioxidative systems in the ectomycorrhiza-building basidiomycete Paxillus involutus (Bartsch) Fr. and its reaction to cadmium. FEMS Microbiology Ecology, 2002, 42, 359-366.	2.7	3
53	NIN-Like Proteins: Interesting Players in Rhizobia-Induced Nitrate Signaling Response During Interaction with Non-Legume Host Arabidopsis thaliana. Molecular Plant-Microbe Interactions, 2022, 35, 230-243.	2.6	3
54	RNA isolation using CsCl gradients. , 2005, , 125-128.		1

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55	Feedback Regulation of Higher Plant Photosynthetic Electron Transport - a Physiological Phenomenon?. , 1998, , 2537-2540.		0