Silke Robatzek

List of Publications by Year
in descending order

65 papers	11,020 citations	53794 45 h-index	106344 65 g-index
72 all docs	72 docs citations	72 times ranked	9190 citing authors

#	Article	IF	Citations
1	A flagellin-induced complex of the receptor FLS2 and BAK1 initiates plant defence. Nature, 2007, 448, 497-500.	27.8	1,619
2	Bacterial disease resistance in Arabidopsis through flagellin perception. Nature, 2004, 428, 764-767.	27.8	1,487
3	The N Terminus of Bacterial Elongation Factor Tu Elicits Innate Immunity in Arabidopsis Plants. Plant Cell, 2004, 16, 3496-3507.	6.6	780
4	Ligand-induced endocytosis of the pattern recognition receptor FLS2 in Arabidopsis. Genes and Development, 2006, 20, 537-542.	5.9	649
5	Plant Pattern-Recognition Receptor FLS2 Is Directed for Degradation by the Bacterial Ubiquitin Ligase AvrPtoB. Current Biology, 2008, 18, 1824-1832.	3.9	400
6	Breaking the Barriers: Microbial Effector Molecules Subvert Plant Immunity. Annual Review of Phytopathology, 2008, 46, 189-215.	7.8	308
7	Ethylene Signaling Regulates Accumulation of the FLS2 Receptor and Is Required for the Oxidative Burst Contributing to Plant Immunity. Plant Physiology, 2010, 154, 391-400.	4.8	306
8	Receptor-like kinase SOBIR1/EVR interacts with receptor-like proteins in plant immunity against fungal infection. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10010-10015.	7.1	272
9	PAMP (Pathogen-associated Molecular Pattern)-induced Changes in Plasma Membrane Compartmentalization Reveal Novel Components of Plant Immunity. Journal of Biological Chemistry, 2010, 285, 39140-39149.	3.4	268
10	LYM2-dependent chitin perception limits molecular flux via plasmodesmata. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9166-9170.	7.1	248
11	Receptor quality control in the endoplasmic reticulum for plant innate immunity. EMBO Journal, 2009, 28, 3439-3449.	7.8	235
12	Spatio-Temporal Cellular Dynamics of the Arabidopsis Flagellin Receptor Reveal Activation Status-Dependent Endosomal Sorting. Plant Cell, 2012, 24, 4205-4219.	6.6	226
13	Pathogen-Associated Molecular Pattern-Triggered Immunity: Veni, Vidiâ€¦?. Plant Physiology, 2010, 154, 551-554.	4.8	206
14	Plant immune and growth receptors share common signalling components but localise to distinct plasma membrane nanodomains. ELife, 2017, 6, .	6.0	206
15	Clathrin-dependent endocytosis is required for immunity mediated by pattern recognition receptor kinases. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11034-11039.	7.1	188
16	Molecular identification and characterization of the tomato flagellin receptor LeFLS2, an orthologue of Arabidopsis FLS2 exhibiting characteristically different perception specificities. Plant Molecular Biology, 2007, 64, 539-547.	3.9	174
17	Large-Scale Phenomics Identifies Primary and Fine-Tuning Roles for CRKs in Responses Related to Oxidative Stress. PLoS Genetics, 2015, 11, e1005373.	3.5	167
18	Pattern Recognition Receptors Require N-Glycosylation to Mediate Plant Immunity. Journal of Biological Chemistry, 2010, 285, 4629-4636.	3.4	164

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19	Pseudomonas syringaeeffector AvrPtoB suppresses basal defence in Arabidopsis. Plant Journal, 2006, 47, 368-382.	5.7	153
20	Avr4 promotes Cfâ€4 receptorâ€like protein association with the BAK1/SERK3 receptorâ€like kinase to initiate receptor endocytosis and plant immunity. New Phytologist, 2016, 210, 627-642.	7.3	146
21	The family of Peps and their precursors in Arabidopsis: differential expression and localization but similar induction of pattern-triggered immune responses. Journal of Experimental Botany, 2013, 64, 5309-5321.	4.8	140
22	The Plasmodesmal Protein PDLP1 Localises to Haustoria-Associated Membranes during Downy Mildew Infection and Regulates Callose Deposition. PLoS Pathogens, 2014, 10, e1004496.	4.7	130
23	Knowing your friends and foes â€“ plant receptorâ€like kinases as initiators of symbiosis or defence. New Phytologist, 2014, 204, 791-802.	7.3	130
24	ESCRT-I Mediates FLS2 Endosomal Sorting and Plant Immunity. PLoS Genetics, 2013, 9, e1004035.	3.5	126
25	Uncoupling of sustained MAMP receptor signaling from early outputs in an Arabidopsis endoplasmic reticulum glucosidase II allele. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22522-22527.	7.1	119
26	Plasma Membrane Calcium ATPases Are Important Components of Receptor-Mediated Signaling in Plant Immune Responses and Development Â Â Â. Plant Physiology, 2012, 159, 798-809.	4.8	112
27	Patterns of plant subcellular responses to successful oomycete infections reveal differences in host cell reprogramming and endocytic trafficking. Cellular Microbiology, 2012, 14, 682-697.	2.1	111
28	The INs and OUTs of pattern recognition receptors at the cell surface. Current Opinion in Plant Biology, 2012, 15, 367-374.	7.1	101
29	Salicylic acid interferes with clathrin-mediated endocytic protein trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7946-7951.	7.1	101
30	The bacterial effector <scp>H</scp>op<scp>M</scp>1 suppresses <scp>PAMP</scp>â€triggered oxidative burst and stomatal immunity. New Phytologist, 2014, 202, 259-269.	7.3	101
31	Identification of Regulatory and Cargo Proteins of Endosomal and Secretory Pathways in Arabidopsis thaliana by Proteomic Dissection*. Molecular and Cellular Proteomics, 2015, 14, 1796-1813.	3.8	101
32	A Moving View: Subcellular Trafficking Processes in Pattern Recognition Receptorâ€“Triggered Plant Immunity. Annual Review of Phytopathology, 2015, 53, 379-402.	7.8	97
33	Expression patterns of FLAGELLIN SENSING 2 map to bacterial entry sites in plant shoots and roots. Journal of Experimental Botany, 2014, 65, 6487-6498.	4.8	96
34	Phosphorylation of the Plant Immune Regulator RPM1-INTERACTING PROTEIN4 Enhances Plant Plasma Membrane H⁺-ATPase Activity and Inhibits Flagellin-Triggered Immune Responses in Arabidopsis. Plant Cell, 2015, 27, 2042-2056.	6.6	91
35	Arabidopsis glycosylphosphatidylinositol-anchored protein LLG1 associates with and modulates FLS2 to regulate innate immunity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5749-5754.	7.1	85
36	Flagellin Perception Varies Quantitatively in Arabidopsis thaliana and Its Relatives. Molecular Biology and Evolution, 2012, 29, 1655-1667.	8.9	77

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37	Gate control: guard cell regulation by microbial stress. New Phytologist, 2014, 203, 1049-1063.	7.3	77
38	Plants and pathogens: putting infection strategies and defence mechanisms on the map. Current Opinion in Plant Biology, 2012, 15, 699-707.	7.1	75
39	A Developmental Framework for Complex Plasmodesmata Formation Revealed by Large-Scale Imaging of the Arabidopsis Leaf Epidermis. Plant Cell, 2013, 25, 57-70.	6.6	71
40	Kinase activity of SOBIR1 and BAK1 is required for immune signalling. Molecular Plant Pathology, 2019, 20, 410-422.	4.2	71
41	Chemical Interference of Pathogen-associated Molecular Pattern-triggered Immune Responses in Arabidopsis Reveals a Potential Role for Fatty-acid Synthase Type II Complex-derived Lipid Signals. Journal of Biological Chemistry, 2007, 282, 6803-6811.	3.4	68
42	Functions of Extracellular Vesicles in Immunity and Virulence. Plant Physiology, 2019, 179, 1236-1247.	4.8	68
43	Endoplasmic Reticulum-Quality Control Chaperones Facilitate the Biogenesis of Cf Receptor-Like Proteins Involved in Pathogen Resistance of Tomato Â Â. Plant Physiology, 2012, 159, 1819-1833.	4.8	63
44	A computational approach for inferring the cell wall properties that govern guard cell dynamics. Plant Journal, 2017, 92, 5-18.	5.7	62
45	How microbes utilize host ubiquitination. Cellular Microbiology, 2009, 11, 1425-1434.	2.1	51
46	Anion channel SLAH3 is a regulatory target of chitin receptor-associated kinase PBL27 in microbial stomatal closure. ELife, 2019, 8, .	6.0	48
47	Host-interactor screens of Phytophthora infestans RXLR proteins reveal vesicle trafficking as a major effector-targeted process. Plant Cell, 2021, 33, 1447-1471.	6.6	46
48	Mapping FLS2 function to structure: LRRs, kinase and its working bits. Protoplasma, 2013, 250, 671-681.	2.1	39
49	Induced Endocytosis of the Receptor Kinase FLS2. Plant Signaling and Behavior, 2006, 1, 293-295.	2.4	35
50	The Shoot Apical Meristem Regulatory Peptide CLV3 Does Not Activate Innate Immunity. Plant Cell, 2012, 24, 3186-3192.	6.6	35
51	High-Throughput Confocal Imaging of Intact Live Tissue Enables Quantification of Membrane Trafficking in Arabidopsis. Plant Physiology, 2010, 154, 1096-1104.	4.8	34
52	Chaperones of the endoplasmic reticulum are required for Ve1 â€mediated resistance to V erticillium. Molecular Plant Pathology, 2014, 15, 109-117.	4.2	33
53	The Arabidopsis immune receptor EFR increases resistance to the bacterial pathogens Xanthomonas and Xylella in transgenic sweet orange. Plant Biotechnology Journal, 2021, 19, 1294-1296.	8.3	26
54	Lazarus1, a DUF300 Protein, Contributes to Programmed Cell Death Associated with Arabidopsis acd11 and the Hypersensitive Response. PLoS ONE, 2010, 5, e12586.	2.5	25

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55	NB-LRR signaling induces translational repression of viral transcripts and the formation of RNA processing bodies through mechanisms differing from those activated by UV stress and RNAi. Journal of Experimental Botany, 2016, 67, 2353-2366.	4.8	22
56	CalloseMeasurer: a novel software solution to measure callose deposition and recognise spreading callose patterns. Plant Methods, 2012, 8, 49.	4.3	21
57	The use of quantitative imaging to investigate regulators of membrane trafficking in Arabidopsis stomatal closure. Traffic, 2019, 20, 168-180.	2.7	21
58	Should I stay or should I go? Traffic control for plant pattern recognition receptors. Current Opinion in Plant Biology, 2015, 28, 23-29.	7.1	19
59	An automated quantitative image analysis tool for the identification of microtubule patterns in plants. Traffic, 2017, 18, 683-693.	2.7	18
60	Xylella fastidiosaâ€™s relationships: the bacterium, the host plants, and the plant microbiome. New Phytologist, 2022, 234, 1598-1605.	7.3	17
61	Endocytosis: At the Crossroads of Pattern Recognition Immune Receptors and Pathogen Effectors. Plant Cell Monographs, 2014, , 273-297.	0.4	11
62	High-Throughput Imaging of Plant Immune Responses. Methods in Molecular Biology, 2014, 1127, 67-80.	0.9	5
63	Illuminating traffic control for cellâ€“division planes. ELife, 2014, 3, e02747.	6.0	3
64	Detection and Analyses of Endocytosis of Plant Receptor Kinases. Methods in Molecular Biology, 2017, 1621, 177-189.	0.9	2
65	Editorial overview: Biotic interactions: Inferring global implications for the molecular interface between plants and their biotic interactions across scales. Current Opinion in Plant Biology, 2017, 38, v-vii.	7.1	0