

# Dierk Scheel

## List of Publications by Year in descending order

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52  
papers

4,364  
citations

136950

32  
h-index

168389

53  
g-index

54  
all docs

54  
docs citations

54  
times ranked

6538  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interplay between calcium signalling and early signalling elements during defence responses to microbe-associated molecular patterns. <i>Plant Journal</i> , 2011, 68, 100-113.	5.7	339
2	Flg22 regulates the release of an ethylene response factor substrate from MAP kinase 6 in <i>Arabidopsis thaliana</i> via ethylene signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8067-8072.	7.1	327
3	A lectin S-domain receptor kinase mediates lipopolysaccharide sensing in <i>Arabidopsis thaliana</i> . <i>Nature Immunology</i> , 2015, 16, 426-433.	14.5	286
4	Feruloyl-CoA 6'-Hydroxylase1-Dependent Coumarins Mediate Iron Acquisition from Alkaline Substrates in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 164, 160-172.	4.8	281
5	High Throughput Identification of Potential <i>Arabidopsis</i> Mitogen-activated Protein Kinases Substrates. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1558-1568.	3.8	223
6	The Multifunctional Enzyme CYP71B15 (PHYTOALEXIN DEFICIENT3) Converts Cysteine-Indole-3-Acetonitrile to Camalexin in the Indole-3-Acetonitrile Metabolic Network of <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2009, 21, 1830-1845.	6.6	221
7	Profiling of secondary metabolites in root exudates of <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2014, 108, 35-46.	2.9	179
8	Ca <sup>2+</sup> signalling in plant immune response: from pattern recognition receptors to Ca <sup>2+</sup> decoding mechanisms. <i>New Phytologist</i> , 2014, 204, 782-790.	7.3	148
9	Natural variation of root exudates in <i>Arabidopsis thaliana</i> -linking metabolomic and genomic data. <i>Scientific Reports</i> , 2016, 6, 29033.	3.3	143
10	Drivers of the composition of active rhizosphere bacterial communities in temperate grasslands. <i>ISME Journal</i> , 2020, 14, 463-475.	9.8	141
11	Mutualistic root endophytism is not associated with the reduction of saprotrophic traits and requires a noncompromised plant innate immunity. <i>New Phytologist</i> , 2015, 207, 841-857.	7.3	139
12	The <i>Arabidopsis thaliana</i> mitogen-activated protein kinases MPK3 and MPK6 target a subclass of VQ-motif-containing proteins to regulate immune responses. <i>New Phytologist</i> , 2014, 203, 592-606.	7.3	132
13	Activation of the <i>Arabidopsis thaliana</i> Mitogen-Activated Protein Kinase MPK11 by the Flagellin-Derived Elicitor Peptide, flg22. <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 471-480.	2.6	123
14	Dynamic Changes in the Localization of MAPK Cascade Components Controlling Pathogenesis-related (PR) Gene Expression and Lignification during Innate Immunity in Parsley. <i>Journal of Biological Chemistry</i> , 2004, 279, 22440-22448.	3.4	115
15	Mitogen-activated Protein Kinases Play an Essential Role in Oxidative Burst-independent Expression of Pathogenesis-related Genes in Parsley. <i>Journal of Biological Chemistry</i> , 2003, 278, 2256-2264.	3.4	106
16	Microbe-associated molecular pattern-induced calcium signaling requires the receptor-like cytoplasmic kinases, PBL1 and BIK1. <i>BMC Plant Biology</i> , 2014, 14, 374.	3.6	100
17	Non-targeted profiling of semi-polar metabolites in <i>Arabidopsis</i> root exudates uncovers a role for coumarin secretion and lignification during the local response to phosphate limitation. <i>Journal of Experimental Botany</i> , 2016, 67, 1421-1432.	4.8	95
18	The Biosynthetic Pathway of Indole-3-Carbaldehyde and Indole-3-Carboxylic Acid Derivatives in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 165, 841-853.	4.8	92

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19	Analysis of new type III effectors from <i>Xanthomonas</i> uncovers XopB and XopS as suppressors of plant immunity. <i>New Phytologist</i> , 2012, 195, 894-911.	7.3	85
20	Arabidopsis Transporter ABCG37/PDR9 contributes primarily highly oxygenated Coumarins to Root Exudation. <i>Scientific Reports</i> , 2017, 7, 3704.	3.3	83
21	The Arabidopsis Tandem Zinc Finger 9 Protein Binds RNA and Mediates Pathogen-Associated Molecular Pattern-Triggered Immune Responses. <i>Plant and Cell Physiology</i> , 2014, 55, 412-425.	3.1	77
22	The ABC Transporter ABCG1 Is Required for Suberin Formation in Potato Tuber Periderm. <i>Plant Cell</i> , 2014, 26, 3403-3415.	6.6	77
23	Defense-Related Calcium Signaling Mutants Uncovered via a Quantitative High-Throughput Screen in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2012, 5, 115-130.	8.3	69
24	Bacterial AvrRpt2-Like Cysteine Proteases Block Activation of the Arabidopsis Mitogen-Activated Protein Kinases, MPK4 and MPK11. <i>Plant Physiology</i> , 2016, 171, 2223-2238.	4.8	67
25	Linking root exudates to functional plant traits. <i>PLoS ONE</i> , 2018, 13, e0204128.	2.5	57
26	Regulation of WRKY46 Transcription Factor Function by Mitogen-Activated Protein Kinases in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 61.	3.6	54
27	Sustained mitogen-activated protein kinase activation reprograms defense metabolism and phosphoprotein profile in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2014, 5, 554.	3.6	49
28	Cellular reprogramming through mitogen-activated protein kinases. <i>Frontiers in Plant Science</i> , 2015, 6, 940.	3.6	45
29	Root exudate composition of grass and forb species in natural grasslands. <i>Scientific Reports</i> , 2020, 10, 10691.	3.3	45
30	Drivers of intraspecific trait variation of grass and forb species in German meadows and pastures. <i>Journal of Vegetation Science</i> , 2017, 28, 705-716.	2.2	42
31	<i>Piriformospora indica</i> Stimulates Root Metabolism of <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2016, 17, 1091.	4.1	35
32	Arabidopsis Protein Phosphatase DBP1 Nucleates a Protein Network with a Role in Regulating Plant Defense. <i>PLoS ONE</i> , 2014, 9, e90734.	2.5	34
33	MPK11 is a fourth elicitor-responsive mitogen-activated protein kinase in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2012, 7, 1203-1205.	2.4	32
34	Annotating unknown components from GC/EI-MS-based metabolite profiling experiments using GC/APCI(+)-QTOFMS. <i>Metabolomics</i> , 2014, 10, 324-336.	3.0	31
35	Expression of <i>AtPCS1</i> in the <i>A. thaliana</i> mutant separates the metal tolerance and non-host resistance functions of phytochelatase synthases. <i>Plant, Cell and Environment</i> , 2015, 38, 2239-2247.	5.7	29
36	Phosphorylation of the CAMTA3 Transcription Factor Triggers Its Destabilization and Nuclear Export. <i>Plant Physiology</i> , 2020, 184, 1056-1071.	4.8	29

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37	Semi-polar root exudates in natural grassland communities. <i>Ecology and Evolution</i> , 2019, 9, 5526-5541.	1.9	26
38	Phosphorylation-dependent control of an RNA granule-localized protein that fine-tunes defence gene expression at a post-transcriptional level. <i>Plant Journal</i> , 2020, 101, 1023-1039.	5.7	26
39	<i>Arabidopsis thaliana</i> root and root exudate metabolism is altered by the growth-promoting bacterium <i>Kosakonia radicincitans</i> DSM 16656T. <i>Plant and Soil</i> , 2017, 419, 557-573.	3.7	24
40	Predicting individual plant performance in grasslands. <i>Ecology and Evolution</i> , 2017, 7, 8958-8965.	1.9	21
41	Annotation of metabolites from gas chromatography/atmospheric pressure chemical ionization tandem mass spectrometry data using an in silico generated compound database and MetFrag. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1521-1529.	1.5	20
42	Plant-to-Plant Variability in Root Metabolite Profiles of 19 <i>Arabidopsis thaliana</i> Accessions Is Substance-Class-Dependent. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1565.	4.1	20
43	Altered glycosylation of exported proteins, including surface immune receptors, compromises calcium and downstream signaling responses to microbe-associated molecular patterns in <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2016, 16, 31.	3.6	16
44	A novel family of proline/serine-rich proteins, which are phospho-targets of stress-related mitogen-activated protein kinases, differentially regulates growth and pathogen defense in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2017, 95, 123-140.	3.9	16
45	Stress-Related Mitogen-Activated Protein Kinases Stimulate the Accumulation of Small Molecules and Proteins in <i>Arabidopsis thaliana</i> Root Exudates. <i>Frontiers in Plant Science</i> , 2017, 8, 1292.	3.6	15
46	Challenges in the identification of microbe-associated molecular patterns in plant and animal innate immunity: a case study with bacterial lipopolysaccharide. <i>Molecular Plant Pathology</i> , 2016, 17, 1165-1169.	4.2	14
47	Early Pep-13-induced immune responses are SERK3A/B-dependent in potato. <i>Scientific Reports</i> , 2019, 9, 18380.	3.3	10
48	PAPE (Prefractionation-Assisted Phosphoprotein Enrichment): A Novel Approach for Phosphoproteomic Analysis of Green Tissues from Plants. <i>Proteomes</i> , 2013, 1, 254-274.	3.5	7
49	Possible role of WRKY transcription factors in regulating immunity in <i>Oryza sativa</i> ssp. <i>indica</i> . <i>Physiological and Molecular Plant Pathology</i> , 2021, 114, 101623.	2.5	5
50	A mutation in Asparagine-Linked Glycosylation 12 (ALG12) leads to receptor misglycosylation and attenuated responses to multiple microbial elicitors. <i>FEBS Letters</i> , 2020, 594, 2440-2451.	2.8	4
51	Teaching an old dog new tricks: Suppressing activation of specific mitogen-activated kinases as a potential virulence function of the bacterial AvrRpt2 effector protein. <i>Plant Signaling and Behavior</i> , 2016, 11, e1257456.	2.4	3
52	Quantitative Analysis of Microbe-Associated Molecular Pattern (MAMP)-Induced Ca <sup>2+</sup> Transients in Plants. <i>Methods in Molecular Biology</i> , 2016, 1398, 331-344.	0.9	3