David Wendehenne

List of Publications by Year
in descending order

85	9,331	53794 45	54911 84
papers	citations	h-index	g-index

90	90	90	7824
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Priming: Getting Ready for Battle. Molecular Plant-Microbe Interactions, 2006, 19, 1062-1071.	2.6	1,241
2	New Insights into Nitric Oxide Signaling in Plants. Annual Review of Plant Biology, 2008, 59, 21-39.	18.7	739
3	Nitric oxide: comparative synthesis and signaling in animal and plant cells. Trends in Plant Science, 2001, 6, 177-183.	8.8	528
4	Early Signaling Events Induced by Elicitors of Plant Defenses. Molecular Plant-Microbe Interactions, 2006, 19, 711-724.	2.6	509
5	Nitric oxide: a new player in plant signalling and defence responses. Current Opinion in Plant Biology, 2004, 7, 449-455.	7.1	475
6	In vivo imaging of an elicitor-induced nitric oxide burst in tobacco. Plant Journal, 2000, 23, 817-824.	5.7	356
7	Nitric Oxide Contributes to Cadmium Toxicity in Arabidopsis by Promoting Cadmium Accumulation in Roots and by Up-Regulating Genes Related to Iron Uptake Â. Plant Physiology, 2009, 149, 1302-1315.	4.8	331
8	Analysis of Nitric Oxide Signaling Functions in Tobacco Cells Challenged by the Elicitor Cryptogein. Plant Physiology, 2004, 135, 516-529.	4.8	295
9	Occurrence, structure, and evolution of nitric oxide synthaseâ€“like proteins in the plant kingdom. Science Signaling, 2016, 9, re2.	3.6	213
10	Nitric Oxide Modulates the Activity of Tobacco Aconitase. Plant Physiology, 2000, 122, 573-582.	4.8	207
11	Nitric oxide synthase in plants: Where do we stand?. Nitric Oxide - Biology and Chemistry, 2017, 63, 30-38.	2.7	173
12	Nitric oxide signalling in plants: interplays with Ca2+ and protein kinases. Journal of Experimental Botany, 2008, 59, 155-163.	4.8	165
13	S-nitrosylation: An emerging post-translational protein modification in plants. Plant Science, 2011, 181, 527-533.	3.6	162
14	Protein S-nitrosylation: What's going on in plants?. Free Radical Biology and Medicine, 2012, 53, 1101-1110.	2.9	151
15	Nitric oxide in plants: the biosynthesis and cell signalling properties of a fascinating molecule. Planta, 2005, 221, 1-4.	3.2	149
16	Integrated Signaling Network Involving Calcium, Nitric Oxide, and Active Oxygen Species but Not Mitogen-Activated Protein Kinases in BcPG1-Elicited Grapevine Defenses. Molecular Plant-Microbe Interactions, 2006, 19, 429-440.	2.6	144
17	Regulation of Nicotiana tabacum osmotic stress-activated protein kinase and its cellular partner GAPDH by nitric oxide in response to salinity. Biochemical Journal, 2010, 429, 73-83.	3.7	133
18	Mechanisms of nitric-oxide-induced increase of free cytosolic Ca2+ concentration in Nicotiana plumbaginifolia cells. Free Radical Biology and Medicine, 2006, 40, 1369-1376.	2.9	132

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19	Nitrate Efflux Is an Essential Component of the Cryptogein Signaling Pathway Leading to Defense Responses and Hypersensitive Cell Death in Tobacco. Plant Cell, 2002, 14, 1937-1951.	6.6	131
20	The Pseudomonas fluorescens Siderophore Pyoverdine Weakens Arabidopsis thaliana Defense in Favor of Growth in Iron-Deficient Conditions. Plant Physiology, 2016, 171, 675-693.	4.8	131
21	Early Responses of Tobacco Suspension Cells to Rhizobacterial Elicitors of Induced Systemic Resistance. Molecular Plant-Microbe Interactions, 2008, 21, 1609-1621.	2.6	125
22	Proteinaceous and oligosaccharidic elicitors induce different calcium signatures in the nucleus of tobacco cells. Cell Calcium, 2005, 38, 527-538.	2.4	122
23	Nitric Oxide in Plants: Production and Cross-talk with Ca2+ Signaling. Molecular Plant, 2008, 1, 218-228.	8.3	122
24	Benzothiadiazole, an inducer of plant defenses, inhibits catalase and ascorbate peroxidase. Phytochemistry, 1998, 47, 651-657.	2.9	116
25	Free radical-mediated systemic immunity in plants. Current Opinion in Plant Biology, 2014, 20, 127-134.	7.1	116
26	The glutaredoxin ATGRXS13 is required to facilitate Botrytis cinerea infection of Arabidopsis thaliana plants. Plant Journal, 2011, 68, 507-519.	5.7	106
27	The Sulfated Laminarin Triggers a Stress Transcriptome before Priming the SA- and ROS-Dependent Defenses during Grapevine's Induced Resistance against Plasmopara viticola. PLoS ONE, 2014, 9, e88145.	2.5	106
28	Current view of nitric oxide-responsive genes in plants. Plant Science, 2009, 177, 302-309.	3.6	102
29	Involvement of the glutamate receptor <scp>A</scp>t<scp>GLR</scp>3.3 in plant defense signaling and resistance to <scp>H</scp>yaloperonospora arabidopsidis. Plant Journal, 2013, 76, 466-480.	5.7	102
30	Evidence for specific, high-affinity binding sites for a proteinaceous elicitor in tobacco plasma membrane. FEBS Letters, 1995, 374, 203-207.	2.8	92
31	Protein S-nitrosylation: specificity and identification strategies in plants. Frontiers in Chemistry, 2014, 2, 114.	3.6	91
32	Regulating the regulator: nitric oxide control of postâ€translational modifications. New Phytologist, 2020, 227, 1319-1325.	7.3	91
33	Glutathione Deficiency of the Arabidopsis Mutant pad2-1 Affects Oxidative Stress-Related Events, Defense Gene Expression, and the Hypersensitive Response Â Â Â. Plant Physiology, 2011, 157, 2000-2012.	4.8	90
34	NO signaling in plant immunity: A tale of messengers. Phytochemistry, 2015, 112, 72-79.	2.9	79
35	There's More to the Picture Than Meets the Eye: Nitric Oxide Cross Talk with Ca2+ Signaling. Plant Physiology, 2013, 163, 459-470.	4.8	73
36	SNF1-Related Protein Kinases Type 2 Are Involved in Plant Responses to Cadmium Stress Â Â. Plant Physiology, 2012, 160, 868-883.	4.8	71

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37	Nitric oxide inhibits the ATPase activity of the chaperone-like AAA+ ATPase CDC48, a target for S-nitrosylation in cryptogein signalling in tobacco cells. Biochemical Journal, 2012, 447, 249-260.	3.7	71
38	Involvement of putative glutamate receptors in plant defence signaling and NO production. Biochimie, 2011, 93, 2095-2101.	2.6	69
39	Typeâ€2 histone deacetylases as new regulators of elicitorâ€induced cell death in plants. New Phytologist, 2011, 192, 127-139.	7.3	68
40	Î²-Aminobutyric Acid Primes an NADPH Oxidaseâ€“Dependent Reactive Oxygen Species Production During Grapevine-Triggered Immunity. Molecular Plant-Microbe Interactions, 2010, 23, 1012-1021.	2.6	66
41	Recommendations on terminology and experimental best practice associated with plant nitric oxide research. New Phytologist, 2020, 225, 1828-1834.	7.3	56
42	Interplays between nitric oxide and reactive oxygen species in cryptogein signalling. Plant, Cell and Environment, 2015, 38, 331-348.	5.7	54
43	Identification of reference genes suitable for qRT-PCR in grapevine and application for the study of the expression of genes involved in pterostilbene synthesis. Molecular Genetics and Genomics, 2011, 285, 273-285.	2.1	53
44	Arginase Induction Represses Gall Development During Clubroot Infection in Arabidopsis. Plant and Cell Physiology, 2012, 53, 901-911.	3.1	52
45	Real-time electrochemical detection of extracellular nitric oxide in tobacco cells exposed to cryptogein, an elicitor of defence responses. Journal of Experimental Botany, 2008, 59, 3407-3414.	4.8	48
46	Changes in Carbohydrate Metabolism in Plasmopara viticola-Infected Grapevine Leaves. Molecular Plant-Microbe Interactions, 2011, 24, 1061-1073.	2.6	47
47	New frontiers in nitric oxide biology in plant. Plant Science, 2011, 181, 507-508.	3.6	46
48	Arabidopsis thaliana nicotianamine synthase 4 is required for proper response to iron deficiency and to cadmium exposure. Plant Science, 2013, 209, 1-11.	3.6	46
49	Cross-Regulation between N Metabolism and Nitric Oxide (NO) Signaling during Plant Immunity. Frontiers in Plant Science, 2016, 7, 472.	3.6	46
50	The evolution of nitric oxide signalling diverges between animal and green lineages. Journal of Experimental Botany, 2019, 70, 4355-4364.	4.8	42
51	The Evolution of HD2 Proteins in Green Plants. Trends in Plant Science, 2016, 21, 1008-1016.	8.8	40
52	Involvement of plasma membrane proteins in plant defense responses. Analysis of the cryptogein signal transduction in tobacco. Biochimie, 1999, 81, 663-668.	2.6	39
53	Î²-Aminobutyric Acid (BABA)-Induced Resistance in Arabidopsis thaliana: Link with Iron Homeostasis. Molecular Plant-Microbe Interactions, 2014, 27, 1226-1240.	2.6	38
54	Activation of a nuclear-localized SIPK in tobacco cells challenged by cryptogein, an elicitor of plant defence reactions. Biochemical Journal, 2009, 418, 191-200.	3.7	32

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55	Nitric oxide and glutathione impact the expression of iron uptake- and iron transport-related genes as well as the content of metals inA. thalianaplants grown under iron deficiency. Plant Signaling and Behavior, 2012, 7, 1246-1250.	2.4	29
56	Nitric oxide synthase in plants: The surprise from algae. Plant Science, 2018, 268, 64-66.	3.6	28
57	Cryptogein-Induced Anion Effluxes. Plant Signaling and Behavior, 2007, 2, 86-95.	2.4	27
58	Nitric oxide production and signalling in algae. Journal of Experimental Botany, 2021, 72, 781-792.	4.8	25
59	Typeâ€<scp>II</scp> histone deacetylases: elusive plant nuclear signal transducers. Plant, Cell and Environment, 2014, 37, 1259-1269.	5.7	24
60	Functional characterization of the chaperonâ€like protein Cdc48 in cryptogeinâ€induced immune response in tobacco. Plant, Cell and Environment, 2017, 40, 491-508.	5.7	24
61	Plant iNOS: conquest of the Holy Grail. Trends in Plant Science, 2003, 8, 465-468.	8.8	21
62	Nitric oxideâ€releasing nanomaterials: from basic research to potential biotechnological applications in agriculture. New Phytologist, 2022, 234, 1119-1125.	7.3	21
63	Toward the understanding of the role of CDC48, a major component of the protein quality control, in plant immunity. Plant Science, 2019, 279, 34-44.	3.6	20
64	Nuclear protein kinases: still enigmatic components in plant cell signalling. New Phytologist, 2010, 185, 355-368.	7.3	19
65	Structure and functions of the chaperone-like p97/CDC48 in plants. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3053-3060.	2.4	18
66	Physiological significance of pedospheric nitric oxide for root growth, development and organismic interactions. Plant, Cell and Environment, 2020, 43, 2336-2354.	5.7	18
67	Study of oligogalacturonides-triggered Nitric Oxide (NO) production provokes new questioning about the origin of NO biosynthesis in plants. Plant Signaling and Behavior, 2012, 7, 1031-1033.	2.4	17
68	Stimulation of Defense Reactions in Medicago truncatula by Antagonistic Lipopeptides from Paenibacillus sp. Strain B2. Applied and Environmental Microbiology, 2010, 76, 7420-7428.	3.1	16
69	Nitrogen modulation of Medicago truncatula resistance to Aphanomyces euteiches depends on plant genotype. Molecular Plant Pathology, 2018, 19, 664-676.	4.2	16
70	NO contributes to cadmium toxicity inArabidopsis thalianaby mediating an iron deprivation response. Plant Signaling and Behavior, 2009, 4, 252-254.	2.4	15
71	The chaperone-like protein CDC48 regulates ascorbate peroxidase in tobacco. Journal of Experimental Botany, 2019, 70, 2665-2681.	4.8	12
72	Cross Kingdom Immunity: The Role of Immune Receptors and Downstream Signaling in Animal and Plant Cell Death. Frontiers in Immunology, 2020, 11, 612452.	4.8	12

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73	NO-Based Signaling in Plants. Plant Cell Monographs, 2006, , 35-51.	0.4	8
74	The chaperoneâ€like protein Cdc48 regulates ubiquitinâ€proteasome system in plants. Plant, Cell and Environment, 2021, 44, 2636-2655.	5.7	8
75	Evolutionary diversification of type-2 HDAC structure, function and regulation in Nicotiana tabacum. Plant Science, 2018, 269, 66-74.	3.6	7
76	Inflammatory Effects of the Plant Protection Product Stifenia (FEN560) on Vertebrates. Frontiers in Public Health, 2017, 5, 74.	2.7	6
77	Electrochemical Detection of Nitric Oxide in Plant Cell Suspensions. Methods in Molecular Biology, 2016, 1424, 127-137.	0.9	4
78	Identification of Partner Proteins of the Algae Klebsormidium nitens NO Synthases: Toward a Better Understanding of NO Signaling in Eukaryotic Photosynthetic Organisms. Frontiers in Plant Science, 2021, 12, 797451.	3.6	4
79	Type 2 histone deacetylases play a major role in the control of elicitor-induced cell death in tobacco. Plant Signaling and Behavior, 2011, 6, 1865-1867.	2.4	3
80	NO Signalling in Plant Immunity. Signaling and Communication in Plants, 2016, , 219-238.	0.7	3
81	Analysis of Recombinant Protein S-Nitrosylation Using the Biotin-Switch Technique. Methods in Molecular Biology, 2018, 1747, 131-141.	0.9	2
82	Nitric oxide synthase in plantsâ€"A follow-up of ABR volume 77: Nitric oxide and signaling in plants. Advances in Botanical Research, 2021, 100, 379-395.	1.1	1
83	Nitric oxide: Chemistry and bioactivity in animal and plant cells. Studies in Natural Products Chemistry, 2002, , 909-963.	1.8	0
84	Some Plant Defense Stimulators can induce IL-1Î² production in human immune cells in vitro. Toxicology Reports, 2020, 7, 413-420.	3.3	0
85	1H, 13C and 15N chemical shift backbone resonance NMR assignment of tobacco calmodulin 2. Biomolecular NMR Assignments, 2022, , 1.	0.8	0