

Dietrich Ernst

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7421525/publications.pdf>

Version: 2024-02-01

68
papers

3,124
citations

159585

30
h-index

155660

55
g-index

68
all docs

68
docs citations

68
times ranked

3592
citing authors

#	ARTICLE	IF	CITATIONS
1	Ozone: An abiotic elicitor of plant defence reactions. <i>Trends in Plant Science</i> , 1998, 3, 47-50.	8.8	328
2	Tissue localization of u.v.-screening pigments and of chalcone synthase mRNA in needles of Scots pine seedlings. <i>New Phytologist</i> , 1996, 132, 247-258.	7.3	180
3	Large-Scale Phenomics Identifies Primary and Fine-Tuning Roles for CRKs in Responses Related to Oxidative Stress. <i>PLoS Genetics</i> , 2015, 11, e1005373.	3.5	167
4	A simple and efficient protocol for isolation of functional RNA from plant tissues rich in secondary metabolites. <i>Plant Molecular Biology Reporter</i> , 2000, 18, 33-39.	1.8	158
5	Biochemical Plant Responses to Ozone. <i>Plant Physiology</i> , 1992, 99, 1321-1328.	4.8	156
6	Ozone induction of ethylene emission in tomato plants: regulation by differential accumulation of transcripts for the biosynthetic enzymes. <i>Plant Journal</i> , 1997, 12, 1151-1162.	5.7	133
7	An ozone-responsive region of the grapevine resveratrol synthase promoter differs from the basal pathogen-responsive sequence. <i>Plant Molecular Biology</i> , 1997, 34, 417-426.	3.9	121
8	Crosstalk and differential response to abiotic and biotic stressors reflected at the transcriptional level of effector genes from secondary metabolism. <i>Plant Molecular Biology</i> , 2004, 54, 817-835.	3.9	111
9	Ethylenediurea (EDU): A research tool for assessment and verification of the effects of ground level ozone on plants under natural conditions. <i>Environmental Pollution</i> , 2011, 159, 3283-3293.	7.5	101
10	Common ragweed (<i>Ambrosia artemisiifolia</i> L.): allergenicity and molecular characterization of pollen after plant exposure to elevated NO ₂ . <i>Plant, Cell and Environment</i> , 2016, 39, 147-164.	5.7	88
11	Gene Induction of Stilbene Biosynthesis in Scots Pine in Response to Ozone Treatment, Wounding, and Fungal Infection. <i>Plant Physiology</i> , 2000, 124, 865-872.	4.8	84
12	Molecular cloning, sequence analysis and elicitor-/ozone-induced accumulation of cinnamyl alcohol dehydrogenase from Norway spruce (<i>Picea abies</i> L.). <i>Plant Molecular Biology</i> , 1993, 23, 145-156.	3.9	80
13	Ragweed (<i>Ambrosia artemisiifolia</i>) pollen allergenicity: SuperSAGE transcriptomic analysis upon elevated CO ₂ and drought stress. <i>BMC Plant Biology</i> , 2014, 14, 176.	3.6	80
14	Isolation of functional RNA from plant tissues rich in phenolic compounds. <i>Analytical Biochemistry</i> , 1991, 197, 91-95.	2.4	74
15	Molecular cloning and functional expression of a stress-induced multifunctional O-methyltransferase with pinosylvin methyltransferase activity from Scots pine (<i>Pinus sylvestris</i> L.). <i>Plant Molecular Biology</i> , 2000, 44, 733-745.	3.9	72
16	Pollen-Associated Microbiome Correlates with Pollution Parameters and the Allergenicity of Pollen. <i>PLoS ONE</i> , 2016, 11, e0149545.	2.5	70
17	Differential transcript induction of parsley pathogenesis-related proteins and of a small heat shock protein by ozone and heat shock. <i>Plant Molecular Biology</i> , 1997, 33, 343-350.	3.9	64
18	PAR modulation of the UV-dependent levels of flavonoid metabolites in <i>Arabidopsis thaliana</i> (L.) Heynh. leaf rosettes: cumulative effects after a whole vegetative growth period. <i>Protoplasma</i> , 2010, 243, 95-103.	2.1	59

#	ARTICLE	IF	CITATIONS
19	Caesium-affected gene expression in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2005, 165, 747-754.	7.3	58
20	Molecular and Immunological Characterization of Ragweed (<i>Ambrosia artemisiifolia</i> L.) Pollen after Exposure of the Plants to Elevated Ozone over a Whole Growing Season. <i>PLoS ONE</i> , 2013, 8, e61518.	2.5	58
21	Low-level radiocaesium exposure alters gene expression in roots of <i>Arabidopsis</i> . <i>New Phytologist</i> , 2005, 168, 141-148.	7.3	47
22	Effects of NO ₂ and Ozone on Pollen Allergenicity. <i>Frontiers in Plant Science</i> , 2016, 7, 91.	3.6	44
23	Induction of stilbene synthase and cinnamyl alcohol dehydrogenase mRNAs in Scots pine (<i>Pinus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 41	3.2	41
24	Nitric oxide burst and nitric oxide-dependent gene induction in plants. <i>Plant Physiology and Biochemistry</i> , 2002, 40, 625-631.	5.8	40
25	Ozone-induced gene expression occurs via ethylene-dependent and -independent signalling. <i>Plant Molecular Biology</i> , 2003, 51, 599-607.	3.9	38
26	Effects of glyphosate on the bacterial community associated with roots of transgenic Roundup Ready [®] soybean. <i>European Journal of Soil Biology</i> , 2014, 63, 41-48.	3.2	37
27	Molecular cloning of ozone-inducible protein from <i>Pinus sylvestris</i> L. with high sequence similarity to vertebrate 3-hydroxy-3-methylglutaryl-CoA-synthase. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1997, 1350, 247-252.	2.4	36
28	Oxidative stress and plant secondary metabolism: 6 ^β -O-malonylapiin in parsley. <i>Phytochemistry</i> , 1993, 34, 687-691.	2.9	35
29	Ragweed plants grown under elevated CO ₂ levels produce pollen which elicit stronger allergic lung inflammation. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 1718-1730.	5.7	35
30	Ozone affects shikimate pathway transcripts and monomeric lignin composition in European beech (<i>Fagus sylvatica</i> L.). <i>European Journal of Forest Research</i> , 2009, 128, 109-116.	2.5	33
31	Ozone affects shikimate pathway genes and secondary metabolites in saplings of European beech (<i>Fagus sylvatica</i> L.) grown under greenhouse conditions. <i>Trees - Structure and Function</i> , 2009, 23, 539-553.	1.9	31
32	Pollen of common ragweed (<i>Ambrosia artemisiifolia</i> L.): Illumina-based de novo sequencing and differential transcript expression upon elevated NO ₂ /O ₃ . <i>Environmental Pollution</i> , 2017, 224, 503-514.	7.5	31
33	Ascorbate promotes emission of mercury vapour from plants. <i>Plant, Cell and Environment</i> , 2005, 28, 1487-1495.	5.7	27
34	Transcript responses in leaves of ozone-treated beech saplings seasons at an outdoor free air model fumigation site over two growing seasons. <i>Plant and Soil</i> , 2009, 323, 61-74.	3.7	26
35	Ethylene- and ozone-induced regulation of a grapevine resveratrol synthase gene: different responsive promoter regions. <i>Plant Physiology and Biochemistry</i> , 2002, 40, 865-870.	5.8	24
36	Ozone fumigation (twice ambient) reduces leaf infestation following natural and artificial inoculation by the endophytic fungus <i>Apiognomonia errabunda</i> of adult European beech trees. <i>Environmental Pollution</i> , 2010, 158, 1043-1050.	7.5	22

#	ARTICLE	IF	CITATIONS
37	Cloning and characterization of two members of the chalcone synthase gene family from walnut. <i>Plant Physiology and Biochemistry</i> , 1999, 37, 721-730.	5.8	21
38	Chalcone synthase activity and polyphenolic compounds of shoot tissues from adult and rejuvenated walnut trees. <i>Planta</i> , 1997, 203, 275-282.	3.2	20
39	Comparison of two ecotypes of the metal hyperaccumulator <i>Thlaspi caerulescens</i> (J. & C. PRESL) at the transcriptional level. <i>Protoplasma</i> , 2010, 239, 81-93.	2.1	20
40	Ä-1,3-Glucanase mRNA is Locally, but not Systemically Induced in <i>Nicotiana Tabacum</i> L. cv. BEL W3 after Ozone Fumigation. <i>Journal of Plant Physiology</i> , 1996, 148, 215-221.	3.5	19
41	Ozone- and ethylene-induced regulation of a grapevine resveratrol synthase promoter in transgenic tobacco. <i>Acta Physiologiae Plantarum</i> , 1997, 19, 467-474.	2.1	19
42	[47] Ozone effects on plant defense. <i>Methods in Enzymology</i> , 2000, 319, 520-535.	1.0	18
43	Transcriptional profiling of summer wheat, grown under different realistic UV-B irradiation regimes. <i>Journal of Plant Physiology</i> , 2007, 164, 913-922.	3.5	18
44	Effect of exogenous cytokinins on growth and somatic embryogenesis in anise cells (<i>Pimpinella</i>) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 4	3.2	17
45	Quantification of mRNAs and Housekeeping Gene Selection for Quantitative Real-Time RT-PCR Normalization in European Beech (<i>Fagus sylvatica</i> L.) during Abiotic and Biotic Stress. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2008, 63, 574-582.	1.4	17
46	A novel method for in vitro culture of plants: Cultivation of barley in a floating hydroponic system. <i>Plant Molecular Biology Reporter</i> , 2003, 21, 405-409.	1.8	16
47	Phytoreduction and volatilization of mercury by ascorbate in <i>Arabidopsis thaliana</i> , European beech and Norway spruce. <i>Applied Geochemistry</i> , 2008, 23, 494-502.	3.0	16
48	Transcription Profiling of the Metal-hyperaccumulator <i>Thlaspi caerulescens</i> (J. & C. PRESL). <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2005, 60, 216-223.	1.4	15
49	Experimental â€omicsâ€ data in tree research: facing complexity. <i>Trees - Structure and Function</i> , 2012, 26, 1723-1735.	1.9	15
50	Transcriptional signatures in leaves of adult European beech trees (<i>Fagus sylvatica</i> L.) in an experimentally enhanced free air ozone setting. <i>Environmental Pollution</i> , 2010, 158, 977-982.	7.5	14
51	Changes of cytokinin nucleotides in an anise cell culture (<i>Pimpinella anisum</i> L.) during growth and embryogenesis. <i>Plant Cell Reports</i> , 1985, 4, 140-143.	5.6	13
52	Mercuric-Ion-Induced Gene Expression in <i>Arabidopsis thaliana</i> . <i>International Journal of Phytoremediation</i> , 1999, 1, 153-167.	3.1	11
53	Pollen and <sc>UV</sc> â€ radiation strongly affect the inflammasome response in human primary keratinocytes. <i>Experimental Dermatology</i> , 2016, 25, 991-993.	2.9	9
54	The cinnamyl alcohol dehydrogenase gene structure in <i>Picea abies</i> (L.) Karst.: genomic sequences, Southern hybridization, genetic analysis and phylogenetic relationships. <i>Trees - Structure and Function</i> , 1998, 12, 453-463.	1.9	8

#	ARTICLE	IF	CITATIONS
55	Molecular Investigations of the Soil, Rhizosphere and Transgenic Glufosinate-Resistant Rape and Maize Plants in Combination with Herbicide (Basta [®]) Application under Field Conditions. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2008, 63, 864-872.	1.4	8
56	Large-scale protein analysis of European beech trees following four vegetation periods of twice ambient ozone exposure. Journal of Proteomics, 2014, 109, 417-435.	2.4	8
57	The cinnamyl alcohol dehydrogenase gene structure in. Trees - Structure and Function, 1998, 12, 453.	1.9	8
58	Identification of a new member of the WRKY family in tobacco. Involved in ozone-induced gene regulation?. Acta Physiologiae Plantarum, 2006, 28, 117-125.	2.1	6
59	Early changes in mRNA populations in leaves of ultraviolet-B-treated European beech (<i>Fagus sylvatica</i>) Tj ETQq1 1 0,784314 rgBT /Overd	2.1	4
60	Integrated Studies on Abiotic Stress Defence in Trees. Developments in Environmental Science, 2013, , 289-307.	0.5	4
61	cis Elements and Transcription Factors Regulating Gene Promoters in Response to Environmental Stress. Ecological Studies, 2004, , 151-176.	1.2	4
62	Gene expression analysis in the green macroalga <i>Acrosiphonia arcta</i> (Dillw.) J. Ag.: Method optimization and influence of ultraviolet radiation. Phycological Research, 2012, 60, 151-160.	1.6	3
63	Ozone and UV-B Responses of Trees and the Question of Forest Sustainability. Tree Physiology, 2001, , 157-166.	2.5	2
64	Induction of pathogen defence genes in parsley (<i>Petroselinum crispum</i> L.) plants by ozone. Proceedings of the Royal Society of Edinburgh Section B Biological Sciences, 1994, 102, 63-74.	0.2	1
65	Heteroplasmy and atrazine resistance in <i>Chenopodium album</i> and <i>Senecio vulgaris</i> . Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2016, 71, 267-272.	1.4	1
66	Effects of high levels of CO2 on gene expression in two different genotypes of <i>Fagus sylvatica</i> . BMC Proceedings, 2011, 5, .	1.6	0
67	Tropospheric Ozone. Tree Physiology, 2002, , 307-324.	2.5	0
68	Ambrosia artemisiifolia: Ein "neues" Kraut mit hohem allergenen Potenzial. , 0, , .		0