

Florian M W Grundler

List of Publications by Year in descending order

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114
papers

5,462
citations

81900

39
h-index

91884

69
g-index

120
all docs

120
docs citations

120
times ranked

4020
citing authors

#	ARTICLE	IF	CITATIONS
1	Positional Cloning of a Gene for Nematode Resistance in Sugar Beet. <i>Science</i> , 1997, 275, 832-834.	12.6	451
2	<i>Arabidopsis thaliana</i> as a new model host for plant-parasitic nematodes. <i>Plant Journal</i> , 1991, 1, 245-254.	5.7	336
3	The transcriptome of syncytia induced by the cyst nematode <i>Heterodera schachtii</i> in <i>Arabidopsis</i> roots. <i>Plant Journal</i> , 2009, 57, 771-784.	5.7	211
4	The Parasitic Behaviour of Second-Stage Juveniles of <i>Meloidogyne Incognita</i> in Roots of <i>Arabidopsis Thaliana</i> . <i>Nematologica</i> , 1992, 38, 98-111.	0.2	202
5	Changes in the structure of <i>Arabidopsis thaliana</i> during female development of the plant-parasitic nematode <i>Heterodera schachtii</i> . <i>Protoplasma</i> , 1996, 194, 103-116.	2.1	167
6	Metabolic profiling reveals local and systemic responses of host plants to nematode parasitism. <i>Plant Journal</i> , 2010, 62, 1058-1071.	5.7	152
7	A Role for AtWRKY23 in Feeding Site Establishment of Plant-Parasitic Nematodes. <i>Plant Physiology</i> , 2008, 148, 358-368.	4.8	145
8	Plant basal resistance to nematodes: an update. <i>Journal of Experimental Botany</i> , 2016, 67, 2049-2061.	4.8	137
9	<i>Arabidopsis</i> leucine-rich repeat receptor-like kinase NILR1 is required for induction of innate immunity to parasitic nematodes. <i>PLoS Pathogens</i> , 2017, 13, e1006284.	4.7	135
10	Expansins are involved in the formation of nematode-induced syncytia in roots of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2006, 48, 98-112.	5.7	132
11	PYK10, a Î²-glucosidase located in the endoplasmatic reticulum, is crucial for the beneficial interaction between <i>Arabidopsis thaliana</i> and the endophytic fungus <i>Piriformospora indica</i> . <i>Plant Journal</i> , 2008, 54, 428-439.	5.7	127
12	Studies on the nutrient uptake by the beet cyst nematode <i>Heterodera schachtii</i> by <i>in situ</i> microinjection of fluorescent probes into the feeding structures in <i>Arabidopsis thaliana</i> . <i>Parasitology</i> , 1994, 109, 249-255.	1.5	126
13	Parasitic Worms Stimulate Host NADPH Oxidases to Produce Reactive Oxygen Species That Limit Plant Cell Death and Promote Infection. <i>Science Signaling</i> , 2014, 7, ra33.	3.6	125
14	A parasitic nematode releases cytokinin that controls cell division and orchestrates feeding site formation in host plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12669-12674.	7.1	113
15	Role of stress-related hormones in plant defence during early infection of the cyst nematode <i>Heterodera schachtii</i> in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2015, 207, 778-789.	7.3	108
16	Regulatory sequences of <i>Arabidopsis</i> drive reporter gene expression in nematode feeding structures. <i>Plant Cell</i> , 1997, 9, 2119-2134.	6.6	99
17	Pyk10, a seedling and root specific gene and promoter from <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2001, 161, 337-346.	3.6	96
18	Bioactive secondary metabolites with multiple activities from a fungal endophyte. <i>Microbial Biotechnology</i> , 2017, 10, 175-188.	4.2	85

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19	Parasitic nematodes manipulate plant development to establish feeding sites. <i>Current Opinion in Microbiology</i> , 2018, 46, 102-108.	5.1	83
20	Title is missing!. <i>European Journal of Plant Pathology</i> , 1998, 104, 545-551.	1.7	82
21	Single-cell damage elicits regional, nematode-restricting ethylene responses in roots. <i>EMBO Journal</i> , 2019, 38, .	7.8	79
22	Induction of Phloem Unloading in <i>Arabidopsis thaliana</i> Roots by the Parasitic Nematode <i>Heterodera schachtii</i> . <i>Plant Physiology</i> , 1996, 112, 1421-1427.	4.8	71
23	Root endodermal barrier system contributes to defence against plant-parasitic cyst and root-knot nematodes. <i>Plant Journal</i> , 2019, 100, 221-236.	5.7	69
24	The Companion Cell-Specific <i>Arabidopsis</i> Disaccharide Carrier AtSUC2 Is Expressed in Nematode-Induced Syncytia. <i>Plant Physiology</i> , 2003, 131, 61-69.	4.8	67
25	Sucrose supply to nematode-induced syncytia depends on the apoplasmic and symplasmic pathways. <i>Journal of Experimental Botany</i> , 2007, 58, 1591-1601.	4.8	63
26	Title is missing!. <i>European Journal of Plant Pathology</i> , 1997, 103, 113-124.	1.7	62
27	Localization of hydrogen peroxide during the defence response of <i>Arabidopsis thaliana</i> against the plant-parasitic nematode <i>Heterodera glycines</i> . <i>Nematology</i> , 1999, 1, 681-686.	0.6	61
28	<i>Arabidopsis</i> endo- α -1,4-glucanases are involved in the formation of root syncytia induced by <i>Heterodera schachtii</i> . <i>Plant Journal</i> , 2008, 53, 336-351.	5.7	60
29	Damage-associated responses of the host contribute to defence against cyst nematodes but not root-knot nematodes. <i>Journal of Experimental Botany</i> , 2017, 68, 5949-5960.	4.8	56
30	The Role of Callose Deposition Along Plasmodesmata in Nematode Feeding Sites. <i>Molecular Plant-Microbe Interactions</i> , 2010, 23, 549-557.	2.6	52
31	Myo-inositol oxygenase genes are involved in the development of syncytia induced by <i>Heterodera schachtii</i> in <i>Arabidopsis</i> roots. <i>New Phytologist</i> , 2009, 184, 457-472.	7.3	51
32	Ultrastructure of feeding plugs and feeding tubes formed by <i>Heterodera schachtii</i> . <i>Nematology</i> , 1999, 1, 363-374.	0.6	49
33	Next Generation Sequencing Based Transcriptome Analysis of Septic-Injury Responsive Genes in the Beetle <i>Tribolium castaneum</i> . <i>PLoS ONE</i> , 2013, 8, e52004.	2.5	49
34	Myo-inositol oxygenase is important for the removal of excess myo-inositol from syncytia induced by <i>Heterodera schachtii</i> in <i>Arabidopsis</i> roots. <i>New Phytologist</i> , 2014, 201, 476-485.	7.3	46
35	Epigallocatechin gallate (EGCG) suppresses lipopolysaccharide-induced inflammatory bone resorption, and protects against alveolar bone loss in mice. <i>FEBS Open Bio</i> , 2015, 5, 522-527.	2.3	45
36	Starch Serves as Carbohydrate Storage in Nematode-Induced Syncytia. <i>Plant Physiology</i> , 2008, 146, 228-235.	4.8	44

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37	Diversity and activity of sugar transporters in nematode-induced root syncytia. <i>Journal of Experimental Botany</i> , 2009, 60, 3085-3095.	4.8	44
38	Fungal root endophytes of tomato from Kenya and their nematode biocontrol potential. <i>Mycological Progress</i> , 2016, 15, 1.	1.4	43
39	Divergent expression of cytokinin biosynthesis, signaling and catabolism genes underlying differences in feeding sites induced by cyst and root-knot nematodes. <i>Plant Journal</i> , 2017, 92, 211-228.	5.7	42
40	Defence responses of <i>Arabidopsis thaliana</i> during invasion and feeding site induction by the plant-parasitic nematode <i>Heterodera glycines</i> . <i>Physiological and Molecular Plant Pathology</i> , 1997, 50, 419-429.	2.5	41
41	Seminar: <i>Heterodera Schachtii</i> and <i>Arabidopsis Thaliana</i> , a Model Host-Parasite Interaction. <i>Nematologica</i> , 1992, 38, 488-493.	0.2	40
42	<i>Piriformospora indica</i> antagonizes cyst nematode infection and development in <i>Arabidopsis</i> roots. <i>Journal of Experimental Botany</i> , 2013, 64, 3763-3774.	4.8	38
43	<i>Arabidopsis</i> <i>HIPP27</i> is a host susceptibility gene for the beet cyst nematode <i>Heterodera schachtii</i> . <i>Molecular Plant Pathology</i> , 2018, 19, 1917-1928.	4.2	38
44	Ultrastructure and anatomy of nematode-induced syncytia in roots of susceptible and resistant sugar beet. <i>Protoplasma</i> , 2000, 211, 39-50.	2.1	37
45	Cell Wall Ingrowths in Nematode Induced Syncytia Require UGD2 and UGD3. <i>PLoS ONE</i> , 2012, 7, e41515.	2.5	37
46	Genome-Wide Association Study in Wheat Identifies Resistance to the Cereal Cyst Nematode <i>Heterodera filipjevi</i> . <i>Phytopathology</i> , 2016, 106, 1128-1138.	2.2	35
47	Imaging arbuscular mycorrhizal structures in living roots of <i>Nicotiana tabacum</i> by light, epifluorescence, and confocal laser scanning microscopy. <i>Canadian Journal of Botany</i> , 2001, 79, 231-237.	1.1	35
48	A Distinct Role of Pectate Lyases in the Formation of Feeding Structures Induced by Cyst and Root-Knot Nematodes. <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 901-912.	2.6	33
49	<i>Heterodera schachtii</i> Tyrosinase-like protein - a novel nematode effector modulating plant hormone homeostasis. <i>Scientific Reports</i> , 2017, 7, 6874.	3.3	33
50	Identification of Two <i>Meloidogyne hapla</i> Genes and an Investigation of Their Roles in the Plant-Nematode Interaction. <i>Molecular Plant-Microbe Interactions</i> , 2017, 30, 101-112.	2.6	32
51	Engineered <i>Rhodobacter capsulatus</i> as a Phototrophic Platform Organism for the Synthesis of Plant Sesquiterpenoids. <i>Frontiers in Microbiology</i> , 2019, 10, 1998.	3.5	31
52	Two tomato β -expansins show distinct spatial and temporal expression patterns during development of nematode-induced syncytia. <i>Physiologia Plantarum</i> , 2008, 132, 370-383.	5.2	30
53	Re-targeting of a plant defense protease by a cyst nematode effector. <i>Plant Journal</i> , 2019, 98, 1000-1014.	5.7	30
54	Females and males of root-parasitic cyst nematodes induce different symplasmic connections between their syncytial feeding cells and the phloem in <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2006, 44, 430-433.	5.8	29

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55	How do nematodes get their sweets? Solute supply to sedentary plant-parasitic nematodes. <i>Nematology</i> , 2007, 9, 451-458.	0.6	29
56	Identification of reference genes for qRT-PCR studies of gene expression in giant cells and syncytia induced in <i>Arabidopsis thaliana</i> by <i>Meloidogyne incognita</i> and <i>Heterodera schachtii</i> . <i>Nematology</i> , 2007, 9, 317-323.	0.6	29
57	The application of <i>Arabidopsis thaliana</i> in studying tripartite interactions among plants, beneficial fungal endophytes and biotrophic plant-parasitic nematodes. <i>Planta</i> , 2015, 241, 1015-1025.	3.2	28
58	Beta-Cryptoxanthin Inhibits Lipopolysaccharide-Induced Osteoclast Differentiation and Bone Resorption via the Suppression of Inhibitor of NF- κ B Kinase Activity. <i>Nutrients</i> , 2019, 11, 368.	4.1	28
59	An <i>Arabidopsis</i> ATPase gene involved in nematode-induced syncytium development and abiotic stress responses. <i>Plant Journal</i> , 2013, 74, 852-866.	5.7	27
60	Identification and characterization of a putative protein disulfide isomerase (HsPDI) as an alleged effector of <i>Heterodera schachtii</i> . <i>Scientific Reports</i> , 2017, 7, 13536.	3.3	27
61	Isolation of a gene from <i>Arabidopsis thaliana</i> related to nematode feeding structures. <i>Gene</i> , 1999, 239, 163-172.	2.2	25
62	An improved procedure for isolation of high-quality RNA from nematode-infected <i>Arabidopsis</i> roots through laser capture microdissection. <i>Plant Methods</i> , 2016, 12, 25.	4.3	25
63	Novel Prodiginine Derivatives Demonstrate Bioactivities on Plants, Nematodes, and Fungi. <i>Frontiers in Plant Science</i> , 2020, 11, 579807.	3.6	22
64	<i>Arabidopsis thaliana</i> as a new model host for plant-parasitic nematodes. <i>Plant Journal</i> , 1991, 1, 245-254.	5.7	22
65	Physiology of Nematode Feeding and Feeding Sites. <i>Developments in Plant Pathology</i> , 1997, , 107-119.	0.1	21
66	In vivo observations of the arbuscular mycorrhizal fungus <i>Glomus mosseae</i> in roots by confocal laser scanning microscopy. <i>Mycological Research</i> , 1999, 103, 311-314.	2.5	20
67	Promoter analysis of <i>pyk20</i> , a gene from <i>Arabidopsis thaliana</i> . <i>Plant Science</i> , 2000, 157, 245-255.	3.6	20
68	Metabolism in Nematode Feeding Sites. <i>Advances in Botanical Research</i> , 2015, 73, 119-138.	1.1	20
69	Effects of O-methylated (â)epigallocatechin gallate (EGCG) on LPS-induced osteoclastogenesis, bone resorption, and alveolar bone loss in mice. <i>FEBS Open Bio</i> , 2017, 7, 1972-1981.	2.3	19
70	Activity profiling reveals changes in the diversity and activity of proteins in <i>Arabidopsis</i> roots in response to nematode infection. <i>Plant Physiology and Biochemistry</i> , 2015, 97, 36-43.	5.8	18
71	Identification and characterisation of resistance to the cereal cyst nematode <i>Heterodera filipjevi</i> in winter wheat. <i>Nematology</i> , 2016, 18, 377-402.	0.6	17
72	Host factors influence the sex of nematodes parasitizing roots of <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2020, 43, 1160-1174.	5.7	17

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73	Mode of action of fluopyram in plant-parasitic nematodes. <i>Scientific Reports</i> , 2022, 12, .	3.3	17
74	Lutein, a carotenoid, suppresses osteoclastic bone resorption and stimulates bone formation in cultures. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 302-306.	1.3	16
75	Transcriptomic Analysis of Resistant and Susceptible Responses in a New Model Root-Knot Nematode Infection System Using <i>Solanum torvum</i> and <i>Meloidogyne arenaria</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 680151.	3.6	16
76	Dissecting the Genetic Complexity of <i>Fusarium</i> Crown Rot Resistance in Wheat. <i>Scientific Reports</i> , 2020, 10, 3200.	3.3	15
77	Heterologous Production of Î²-Caryophyllene and Evaluation of Its Activity against Plant Pathogenic Fungi. <i>Microorganisms</i> , 2021, 9, 168.	3.6	15
78	Isolation of regulatory DNA regions related to differentiation of nematode feeding structures in <i>Arabidopsis thaliana</i> . <i>Physiological and Molecular Plant Pathology</i> , 1998, 53, 177-193.	2.5	14
79	The <i>Arabidopsis thaliana</i> Sucrose Transporter Gene <i>AtSUC4</i> is Expressed in <i>Meloidogyne incognita</i> -induced Root Galls. <i>Journal of Phytopathology</i> , 2009, 157, 256-261.	1.0	14
80	Lutein Enhances Bone Mass by Stimulating Bone Formation and Suppressing Bone Resorption in Growing Mice. <i>Biological and Pharmaceutical Bulletin</i> , 2017, 40, 716-721.	1.4	14
81	Effects of Polymethoxyflavonoids on Bone Loss Induced by Estrogen Deficiency and by LPS-Dependent Inflammation in Mice. <i>Pharmaceuticals</i> , 2018, 11, 7.	3.8	14
82	Low Molecular-Weight Curdlan, (1â†’3)-Î²-Glucan Suppresses TLR2-Induced RANKL-Dependent Bone Resorption. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 1282-1285.	1.4	13
83	The effector GpRbpâ€¹ of <i>Globodera pallida</i> targets a nuclear HECT E3 ubiquitin ligase to modulate gene expression in the host. <i>Molecular Plant Pathology</i> , 2020, 21, 66-82.	4.2	13
84	Water and Nutrient Transport in Nematode Feeding Sites. , 2011, , 423-439.		13
85	Inhibition of acetyl-CoA carboxylase by spirotetramat causes growth arrest and lipid depletion in nematodes. <i>Scientific Reports</i> , 2020, 10, 12710.	3.3	12
86	<i>Plasmodiophora brassicae</i> -induced expression of <i>pyk20</i> , an <i>Arabidopsis thaliana</i> gene with glutamine-rich domain. <i>Physiological and Molecular Plant Pathology</i> , 2000, 56, 79-84.	2.5	11
87	Expansins are among plant cell wall modifying agents specifically expressed during development of nematode-induced syncytia. <i>Plant Signaling and Behavior</i> , 2008, 3, 969-971.	2.4	11
88	Genome-wide association study uncovers a novel QTL allele of <i>AtS40-3</i> that affects the sex ratio of cyst nematodes in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2018, 69, 1805-1814.	4.8	11
89	African Nightshade and African Spinach Decrease Root-Knot Nematode and Potato Cyst Nematode Soil Infestation in Kenya. <i>Plant Disease</i> , 2019, 103, 1621-1630.	1.4	11
90	The Plant Sesquiterpene Nootkatone Efficiently Reduces <i>Heterodera schachtii</i> Parasitism by Activating Plant Defense. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9627.	4.1	11

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91	Bacillus firmus I-1582 promotes plant growth and impairs infection and development of the cyst nematode <i>Heterodera schachtii</i> over two generations. <i>Scientific Reports</i> , 2021, 11, 14114.	3.3	11
92	The Role of MPK6 as Mediator of Ethylene/Jasmonic Acid Signaling in <i>Serendipita indica</i> -Colonized <i>Arabidopsis</i> Roots. <i>Plant Molecular Biology Reporter</i> , 2018, 36, 284-294.	1.8	9
93	Signatures of adaptation to a monocot host in the plant-parasitic cyst nematode <i>Heterodera sacchari</i> . <i>Plant Journal</i> , 2020, 103, 1263-1274.	5.7	9
94	Plant parasitic cyst nematodes redirect host indole metabolism via NADPH oxidase-mediated ROS to promote infection. <i>New Phytologist</i> , 2021, 232, 318-331.	7.3	9
95	<i>Arabidopsis thaliana</i> and <i>Heterodera schachtii</i> : A Versatile Model to Characterize the Interaction Between Host Plants and Cyst Nematodes. , 1994, , 171-180.		8
96	Glutathione contributes to plant defence against parasitic cyst nematodes. <i>Molecular Plant Pathology</i> , 2022, 23, 1048-1059.	4.2	8
97	Amino acid permease 6 modulates host response to cyst nematodes in wheat and <i>Arabidopsis</i> . <i>Nematology</i> , 2018, 20, 737-750.	0.6	7
98	Transcriptome and Parasitome Analysis of Beet Cyst Nematode <i>Heterodera schachtii</i> . <i>Scientific Reports</i> , 2020, 10, 3315.	3.3	7
99	Sublethal fluazaindolizine doses inhibit development of the cyst nematode <i>Heterodera schachtii</i> during sedentary parasitism. <i>Pest Management Science</i> , 2021, 77, 3571-3580.	3.4	7
100	Expanding Nematode-Induced Syncytia. <i>Plant Signaling and Behavior</i> , 2006, 1, 223-224.	2.4	6
101	Arginine metabolism of <i>Arabidopsis thaliana</i> is modulated by <i>Heterodera schachtii</i> infection. <i>Nematology</i> , 2015, 17, 1027-1043.	0.6	5
102	Effects of exogenous amino acid applications on the plant-parasitic nematode <i>Heterodera schachtii</i> . <i>Nematology</i> , 2018, 20, 713-727.	0.6	5
103	Identification of a putative cation transporter gene from sugar beet (<i>Beta vulgaris</i> L.) by DDRT-PCR closely linked to the beet cyst nematode resistance gene <i>Hs1pro-1</i> . <i>Plant Science</i> , 2003, 165, 777-784.	3.6	4
104	Quantification of tomato expansins in nematode feeding sites of cyst and root-knot nematodes. <i>Journal of Plant Diseases and Protection</i> , 2008, 115, 263-272.	2.9	4
105	Activation of geminivirus sense promoters in roots is restricted to nematode feeding sites. <i>Molecular Plant Pathology</i> , 2010, 11, 409-417.	4.2	4
106	<i>Arabidopsis</i> tonoplast intrinsic protein and vacuolar H ⁺ -adenosinetriphosphatase reflect vacuole dynamics during development of syncytia induced by the beet cyst nematode <i>Heterodera schachtii</i> . <i>Protoplasma</i> , 2019, 256, 419-429.	2.1	4
107	A new endophytic fungus CJAN1179 isolated from the Cholistan desert promotes lateral root growth in <i>Arabidopsis</i> and produces IAA through tryptophan-dependent pathway. <i>Archives of Microbiology</i> , 2022, 204, 181.	2.2	4
108	Starch as a sugar reservoir for nematode-induced syncytia. <i>Plant Signaling and Behavior</i> , 2008, 3, 961-962.	2.4	3

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109	In vitro life cycle of <i>Heterodera sacchari</i> on Pluronic gel. <i>Nematology</i> , 2019, 21, 573-579.	0.6	2
110	<i>Heterodera schachtii</i> glutathione peroxidase (HsGPx) is a parasitism protein. <i>Journal of Plant Diseases and Protection</i> , 2020, 127, 111-118.	2.9	2
111	Regulatory Sequences of <i>Arabidopsis</i> Drive Reporter Gene Expression in Nematode Feeding Structures. <i>Plant Cell</i> , 1997, 9, 2119.	6.6	1
112	Concerted Efforts To Develop Handles For Plant Parasitic Nematode Control. <i>Developments in Plant Genetics and Breeding</i> , 2000, 6, 159-167.	0.6	0
113	Report on the 43rd Annual Meeting of the DPG-Working Group Nematology. <i>Journal of Plant Diseases and Protection</i> , 2015, 122, 189-193.	2.9	0
114	Analyzing Cytokinin Responses During Plant-Nematode Interactions. <i>Methods in Molecular Biology</i> , 2017, 1569, 151-158.	0.9	0