

Nigel D Paul

List of Publications by Year in descending order

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117
papers

6,524
citations

47006

47
h-index

71685

76
g-index

120
all docs

120
docs citations

120
times ranked

6594
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogenic volatile organic compounds in the Earth system. <i>New Phytologist</i> , 2009, 183, 27-51.	7.3	461
2	Ecological roles of solar UV radiation: towards an integrated approach. <i>Trends in Ecology and Evolution</i> , 2003, 18, 48-55.	8.7	351
3	Seduced by the dark side: integrating molecular and ecological perspectives on the influence of light on plant defence against pests and pathogens. <i>New Phytologist</i> , 2006, 170, 677-699.	7.3	282
4	Solar ultraviolet radiation in a changing climate. <i>Nature Climate Change</i> , 2014, 4, 434-441.	18.8	277
5	Interactive effects of solar UV radiation and climate change on biogeochemical cycling. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 286.	2.9	194
6	Treating seeds with activators of plant defence generates long-lasting priming of resistance to pests and pathogens. <i>New Phytologist</i> , 2012, 193, 770-778.	7.3	183
7	Environmental effects of ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2017. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 127-179.	2.9	177
8	Ozone depletion, ultraviolet radiation, climate change and prospects for a sustainable future. <i>Nature Sustainability</i> , 2019, 2, 569-579.	23.7	156
9	UVR8 in <i>Arabidopsis thaliana</i> regulates multiple aspects of cellular differentiation during leaf development in response to ultraviolet B radiation. <i>New Phytologist</i> , 2009, 183, 315-326.	7.3	138
10	Isoprene emissions influence herbivore feeding decisions. <i>Plant, Cell and Environment</i> , 2008, 31, 1410-1415.	5.7	126
11	Discrimination of Plant Volatile Signatures by an Electronic Nose: A Potential Technology for Plant Pest and Disease Monitoring. <i>Environmental Science & Technology</i> , 2008, 42, 8433-8439.	10.0	122
12	The influence of UV-B radiation on the physicochemical nature of tobacco (<i>Nicotiana tabacum</i> L.) leaf surfaces. <i>Journal of Experimental Botany</i> , 1996, 47, 99-109.	4.8	118
13	Responses to ultraviolet-B radiation (280-315 nm) of pea (<i>Pisum sativum</i>) lines differing in leaf surface wax. <i>Physiologia Plantarum</i> , 1996, 98, 852-860.	5.2	113
14	The effects of UVB and temperature on the survival of natural populations and pure cultures of <i>Campylobacter jejuni</i> , <i>Camp. coli</i> , <i>Camp. lari</i> and urease-positive thermophilic campylobacters (UPTC) in surface waters. <i>Journal of Applied Microbiology</i> , 2001, 90, 256-267.	3.1	110
15	Coping with multiple enemies: an integration of molecular and ecological perspectives. <i>Trends in Plant Science</i> , 2000, 5, 220-225.	8.8	106
16	The green tea polyphenol, epigallocatechin-3-gallate, protects against the oxidative cellular and genotoxic damage of UVA radiation. <i>International Journal of Cancer</i> , 2002, 102, 439-444.	5.1	105
17	On the Use of Fungicides for Experimentation in Natural Vegetation. <i>Functional Ecology</i> , 1989, 3, 759.	3.6	96
18	Ultraviolet Radiation as a Limiting Factor in Leaf Expansion and Development. <i>Photochemistry and Photobiology</i> , 2009, 85, 279-286.	2.5	93

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19	Effects of solar UV radiation and climate change on biogeochemical cycling: interactions and feedbacks. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 261-279.	2.9	87
20	Variation in the responses of litter and phylloplane fungi to UV-B radiation (290–315 nm). <i>Mycological Research</i> , 1999, 103, 1469-1477.	2.5	83
21	Non-photosynthetic mechanisms of growth reduction in pea (<i>Pisum sativum</i> L.) exposed to UV-B radiation. <i>Plant, Cell and Environment</i> , 1998, 21, 23-32.	5.7	75
22	Decay of intestinal enterococci concentrations in high-energy estuarine and coastal waters: towards real-time T90 values for modelling faecal indicators in recreational waters. <i>Water Research</i> , 2005, 39, 655-667.	11.3	75
23	Increased exposure to UV-B radiation during early development leads to enhanced photoprotection and improved long-term performance in <i>Lactuca sativa</i> . <i>Plant, Cell and Environment</i> , 2011, 34, 1401-1413.	5.7	74
24	Effects of Cultivar, Fruit Number and Reflected Photosynthetically Active Radiation on <i>Fragaria ananassa</i> Productivity and Fruit Ellagic Acid and Ascorbic Acid Concentrations. <i>Annals of Botany</i> , 2006, 97, 429-441.	2.9	71
25	The effects of UV-B radiation on European heathland species. <i>Plant Ecology</i> , 1997, 128, 253-264.	1.6	70
26	Stratospheric ozone depletion, UV-B radiation and crop disease. <i>Environmental Pollution</i> , 2000, 108, 343-355.	7.5	69
27	Beetle grazing reduces natural infection of <i>Rumex obtusifolius</i> by fungal pathogens. <i>New Phytologist</i> , 2000, 146, 325-333.	7.3	67
28	The effects of ultraviolet-B (UV-B: 290–320 nm) radiation on blister blight disease of tea (<i>Camellia</i>). <i>Journal of Agricultural Science</i> , 2000, 135, 241-246.	2.4	66
29	Title is missing!. <i>Plant Ecology</i> , 2001, 154, 27-36.	1.6	65
30	The effect of a foliar disease (rust) on the development of <i>Gastrophysa viridula</i> (Coleoptera). <i>Journal of Applied Ecology</i> , 2000, 37, 1010-1015.	2.2	62
31	Title is missing!. <i>Plant Ecology</i> , 1997, 128, 297-308.	1.6	62
32	Survival, Growth and Reproduction of Groundsel (<i>Senecio Vulgaris</i>) Infected by Rust (<i>Puccinia</i>). <i>Journal of Applied Ecology</i> , 2000, 37, 1016-1021.	4.0	60
33	Crosstalk between plant responses to pathogens and herbivores: a view from the outside in. <i>Journal of Experimental Botany</i> , 2003, 55, 159-168.	4.8	59
34	The UV-B photoreceptor UVR8 promotes photosynthetic efficiency in <i>Arabidopsis thaliana</i> exposed to elevated levels of UV-B. <i>Photosynthesis Research</i> , 2012, 114, 121-131.	2.9	59
35	Endopolyploidy as a potential alternative adaptive strategy for <i>Arabidopsis</i> leaf size variation in response to UV-B. <i>Journal of Experimental Botany</i> , 2014, 65, 2757-2766.	4.8	59
36	Environmental effects of stratospheric ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2019. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 542-584.	2.9	59

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37	Interactions Between <i>Rumex</i> spp., Herbivores and a Rust Fungus: <i>Gastrophysa viridula</i> Grazing Reduces Subsequent Infection by <i>Uromyces rumicis</i> . <i>Functional Ecology</i> , 1994, 8, 265.	3.6	58
38	Effects of enhanced UV-B radiation on pea (<i>Pisum sativum</i> L.) grown under field conditions in the UK. <i>Global Change Biology</i> , 1996, 2, 325-334.	9.5	57
39	The Impact of a Pathogen (<i>Puccinia Lagenophorae</i>) On Populations of Groundsel (<i>Senecio Vulgaris</i>) Overwintering in the Field: I. Mortality, Vegetative Growth and the Development of Size Hierarchies. <i>Journal of Ecology</i> , 1986, 74, 1069.	4.0	56
40	Effects of rust infection of <i>Senecio vulgaris</i> on competition with lettuce. <i>Weed Research</i> , 1987, 27, 431-441.	1.7	56
41	PHYTOHORMONES AND PLANT-HERBIVORE-PATHOGEN INTERACTIONS: INTEGRATING THE MOLECULAR WITH THE ECOLOGICAL. <i>Ecology</i> , 2004, 85, 59-69.	3.2	56
42	Ecological responses to UV radiation: interactions between the biological effects of UV on plants and on associated organisms. <i>Physiologia Plantarum</i> , 2012, 145, 565-581.	5.2	56
43	Effects of rust and post-infection drought on photosynthesis, growth and water relations in groundsel. <i>Plant Pathology</i> , 1984, 33, 561-569.	2.4	54
44	The Impact of a Pathogen (<i>Puccinia Lagenophorae</i>) on Populations of Groundsel (<i>Senecio Vulgaris</i>) Overwintering in the Field: II. Reproduction. <i>Journal of Ecology</i> , 1986, 74, 1085.	4.0	53
45	The effect of elevated UV-B radiation on herbivory of pea by <i>Autographa gamma</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1994, 71, 227-233.	1.4	53
46	The Use of Wavelength-selective Plastic Cladding Materials in Horticulture: Understanding of Crop and Fungal Responses Through the Assessment of Biological Spectral Weighting Functions. <i>Photochemistry and Photobiology</i> , 2005, 81, 1052.	2.5	53
47	Influence of UV-B Radiation and Temperature on Photodegradation of PAHs: Preliminary Results. <i>Journal of Atmospheric Chemistry</i> , 2006, 55, 241-252.	3.2	50
48	Solar UV radiation in a changing world: roles of cryosphere-land-water-atmosphere interfaces in global biogeochemical cycles. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 747-774.	2.9	49
49	INTERFERENCE BETWEEN HEALTHY AND RUSTED GROUNDSEL (<i>SENECIO VULGARIS</i> L.) WITHIN MIXED POPULATIONS OF DIFFERENT DENSITIES AND PROPORTIONS. <i>New Phytologist</i> , 1986, 104, 257-269.	7.3	47
50	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2009. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 275-294.	2.9	47
51	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2011. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 13-27.	2.9	47
52	Interactions Between <i>Rumex</i> spp., Herbivores and a Rust Fungus: The Effect of <i>Uromyces rumicis</i> Infection on Leaf Nutritional Quality. <i>Functional Ecology</i> , 1995, 9, 97.	3.6	41
53	Exogenous jasmonic acid mimics herbivore-induced systemic increase in cell wall bound peroxidase activity and reduction in leaf expansion. <i>Functional Ecology</i> , 2003, 17, 549-554.	3.6	41
54	Glutathione modulates the level of free radicals produced in UVA-irradiated cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2000, 57, 102-112.	3.8	40

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55	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2021. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 275-301.	2.9	40
56	The Effects of <i>Puccinia Lagenophorae</i> on <i>Senecio Vulgaris</i> in Competition With <i>Euphorbia Peplus</i> . <i>Journal of Ecology</i> , 1989, 77, 552.	4.0	38
57	Increased occurrence of pesticide residues on crops grown in protected environments compared to crops grown in open field conditions. <i>Chemosphere</i> , 2015, 119, 1428-1435.	8.2	38
58	The Montreal Protocol protects the terrestrial carbon sink. <i>Nature</i> , 2021, 596, 384-388.	27.8	38
59	The effect of natural and simulated insect herbivory, and leaf age, on the process of infection of <i>Rumex crispus</i> L. and <i>R. obtusifolius</i> L. by <i>Uromyces rumicis</i> (Schum.) Wint.. <i>New Phytologist</i> , 1995, 130, 239-249.	7.3	37
60	Responses of phylloplane yeasts to UV-B (290-320 nm) radiation: interspecific differences in sensitivity. <i>Mycological Research</i> , 1997, 101, 779-785.	2.5	37
61	Plant responses to UV-B: time to look beyond stratospheric ozone depletion?. <i>New Phytologist</i> , 2001, 150, 5-8.	7.3	36
62	Tolerance of <i>Senecio vulgaris</i> to Infection and Disease Caused by Native and Alien Rust Fungi. <i>Phytopathology</i> , 2006, 96, 718-726.	2.2	36
63	Effects of enhanced UVB on populations of the phloem feeding insect <i>Strophingia ericae</i> (Homoptera:). <i>Tj ETQq1 1 0.784314 rgBT /Ov</i>	9.5	35
64	The Effects of Infection by Rust (<i>Puccinia lagenophorae</i> Cooke) on the Growth of Groundsel (<i>Senecio</i>). <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	2.9	32
65	Preferential Grazing by Molluscs of Plants Infected by Rust Fungi. <i>Oikos</i> , 1990, 58, 145.	2.7	32
66	The effect of an insect herbivore and a rust fungus individually, and combined in sequence, on the growth of two <i>Rumex</i> species. <i>New Phytologist</i> , 1994, 128, 71-78.	7.3	32
67	The Dose Rate of UVA Treatment Influences the Cellular Response of HaCaT Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2008, 128, 685-693.	0.7	29
68	<i>Botrytis cinerea</i> kills groundsel (<i>Senecio vulgaris</i>) infected by rust (<i>Puccinia lagenophorae</i>). <i>New Phytologist</i> , 1990, 114, 105-109.	7.3	28
69	Effects of interactions between nutrient supply and rust infection of <i>Senecio vulgaris</i> L. on competition with <i>Capsella bursa-pastoris</i> (L.) Medic.. <i>New Phytologist</i> , 1990, 114, 667-674.	7.3	27
70	Dose responses of two pea lines to ultraviolet-B radiation (280-315 nm). <i>Physiologia Plantarum</i> , 1998, 104, 373-378.	5.2	27
71	Environmental effects of ozone depletion and its interactions with climate change: Progress report, 2008. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 13-22.	2.9	27
72	Variation in responses of spores of <i>Septoria tritici</i> and <i>S. nodorum</i> to UV-B irradiation in vitro. <i>Mycological Research</i> , 1995, 99, 1371-1377.	2.5	25

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73	Added Soil Nitrogen Does not Allow <i>Rumex obtusifolius</i> to Escape the Effects of Insect-Fungus Interactions. <i>Journal of Applied Ecology</i> , 1997, 34, 88.	4.0	25
74	Reduced leaf expansion as a cost of systemic induced resistance to herbivory. <i>Functional Ecology</i> , 2003, 17, 75-81.	3.6	25
75	Plant pest and disease diagnosis using electronic nose and support vector machine approach. <i>Journal of Plant Diseases and Protection</i> , 2012, 119, 200-207.	2.9	25
76	WATER STRESS MODIFIES INTRASPECIFIC INTERFERENCE BETWEEN RUST (<i>PUCCINIA LAGENOPHORAE</i>) Tj ETQq0 0.0 rgBT /Overlock 10	7.3	24
77	Ecological impact of solar ultraviolet-B (UV-B: 320?290i;1/2nm) radiation on <i>Corynebacterium aquaticum</i> and <i>Xanthomonas</i> sp. colonization on tea phyllosphere in relation to blister blight disease incidence in the field. <i>Letters in Applied Microbiology</i> , 2007, 44, 513-519.	2.2	23
78	Role for non-homologous end-joining in the repair of UVA-induced DNA damage. <i>International Journal of Radiation Biology</i> , 2002, 78, 1023-1027.	1.8	22
79	A novel formulation technology for baculoviruses protects biopesticide from degradation by ultraviolet radiation. <i>Scientific Reports</i> , 2020, 10, 13301.	3.3	22
80	The Effects of Nutrient Deficiency and Rust Infection on the Relationship Between Root Dry Weight and Length in Groundsel (<i>Senecio vulgaris</i> L.). <i>Annals of Botany</i> , 1986, 57, 353-360.	2.9	19
81	Mycoherbicides and other biocontrol agents for <i>Senecio</i> spp. <i>Pest Management Science</i> , 1993, 37, 323-329.	0.4	19
82	The effect of nitrogen fertilization and rust fungus infection, singly and combined, on the leaf chemical composition of <i>Rumex obtusifolius</i> . <i>Functional Ecology</i> , 1997, 11, 545-553.	3.6	19
83	Inter- and intra- species differences in plants as hosts to <i>Tyria jacobaeae</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1998, 88, 137-145.	1.4	19
84	A comparative study on the aqueous photodegradation of two organophosphorus pesticides under simulated and natural sunlight. <i>Journal of Environmental Monitoring</i> , 2009, 11, 654.	2.1	18
85	Nutrient Relations of Groundsel (<i>Senecio vulgaris</i>) Infected by Rust (<i>Puccinia lagenophorae</i>) at a Range of Nutrient Concentrations I. Concentrations, Contents and Distribution of N, P and K. <i>Annals of Botany</i> , 1988, 61, 489-498.	2.9	17
86	Invasion of rust (<i>Puccinia poarum</i>) pycnia and aecia on coltsfoot (<i>Tussilago farfara</i>) by secondary pathogens: death of host leaves. <i>Mycological Research</i> , 1992, 96, 309-312.	2.5	16
87	The effects of UV-B radiation on European heathland species. , 1997, , 252-264.		16
88	Response of barley and pea crops to supplementary UV-B radiation. <i>Journal of Agricultural Science</i> , 1999, 132, 253-261.	1.3	15
89	On integrating molecular and ecological studies of plant resistance: variety of mechanisms and breadth of antagonists. <i>Journal of Ecology</i> , 2000, 88, 702-706.	4.0	15
90	Responses of rust (<i>Puccinia lagenophorae</i> Cooke) to nutrient supply in groundsel (<i>Senecio vulgaris</i> L.) and effects of infection on host nutrient relations. <i>New Phytologist</i> , 1990, 115, 99-106.	7.3	14

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91	Effects of UV-B radiation (280–320 nm) on foliar saprotrophs and pathogens. , 1996, , 32-50.		14
92	Nitrogen fertilization affects interactions between the components of an insect-fungus-plant tripartite system. Functional Ecology, 1997, 11, 537-544.	3.6	14
93	Effects of rust infection with Puccinia lagenophorae on pyrrolizidine alkaloids in Senecio vulgaris. Phytochemistry, 1998, 49, 1589-1592.	2.9	14
94	Physical disturbance of an upland grassland influences the impact of elevated UV-B radiation on metabolic profiles of below-ground micro-organisms. Global Change Biology, 2004, 10, 1146-1154.	9.5	13
95	Effects of UV-B Radiation on Wax Biosynthesis. , 1994, , 195-204.		13
96	Direct effects of protective cladding material on insect pests in crops. Crop Protection, 2019, 121, 147-156.	2.1	12
97	The role of interactions between trophic levels in determining the effects of UV-B on terrestrial ecosystems. , 1997, , 296-308.		12
98	A small-scale controlled environment chamber for the investigation of the effects of pollutant gases on plants growing at cool or sub-zero temperature. Environmental Pollution, 1990, 64, 155-168.	7.5	11
99	Changes in Tissue Freezing in Senecio vulgaris infected by Rust (Puccinia lagenophorae). Annals of Botany, 1991, 68, 129-133.	2.9	11
100	The role of isoprene in insect herbivory. Plant Signaling and Behavior, 2008, 3, 1141-1142.	2.4	11
101	WATER STRESS MODIFIES INTRASPECIFIC INTERFERENCE BETWEEN RUST (PUCCINIA LAGENOPHORAE) Tj ETQq1 1,0,784314 rgBT /Ove 7.3 11		11
102	Nutrient Relations of Groundsel (Senecio vulgaris) Infected by Rust (Puccinia lagenophorae) at a Range of Nutrient Concentrations II. Uptake of N, P and K and Shoot-Root Interactions. Annals of Botany, 1988, 61, 499-506.	2.9	10
103	Title is missing!. BioControl, 2001, 46, 139-155.	2.0	10
104	The aqueous photodegradation of fenitrothion under various agricultural plastics: Implications for pesticide longevity in agricultural "micro-environments". Chemosphere, 2009, 76, 147-150.	8.2	10
105	Underwater ultraviolet. Trends in Ecology and Evolution, 2003, 18, 216-217.	8.7	9
106	Effects of Mildew and Nitrogen on Grain Yield of Barley Artificially Infected in the Field. Annals of Botany, 1984, 54, 145-148.	2.9	8
107	The use of clip cages to restrain insects reduces leaf expansion systemically in Rumex obtusifolius. Ecological Entomology, 2003, 28, 239-242.	2.2	8
108	Reduction of photosynthetic sensitivity in response to abiotic stress in tomato is mediated by a new generation plant activator. BMC Plant Biology, 2013, 13, 108.	3.6	8

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109	Variation in susceptibility and tolerance within and between populations of <i>Tussilago farfara</i> L. infected by <i>Coleosporium tussilaginis</i> (Pers.) Berk.. <i>New Phytologist</i> , 1995, 129, 117-123.	7.3	7
110	Responses to ultraviolet-B radiation (280-315 nm) of pea (<i>Pisum sativum</i>) lines differing in leaf surface wax. <i>Physiologia Plantarum</i> , 1996, 98, 852-860.	5.2	7
111	Ultraviolet radiation causes leaf warming due to partial stomatal closure. <i>Horticulture Research</i> , 2022, 9, .	6.3	6
112	New understanding of the direct effects of spectral balance on behaviour in <i>Myzus persicae</i> . <i>Journal of Insect Physiology</i> , 2020, 126, 104096.	2.0	5
113	Interactions between trophic levels. , 1997, , 317-340.		5
114	Making biological herbicides more effective. <i>Journal of Biological Education</i> , 1992, 26, 94-99.	1.5	2
115	The relative implications of ozone formation both in the stratosphere and the troposphere. <i>Proceedings of the Royal Society of Edinburgh Section B Biological Sciences</i> , 1994, 102, 33-47.	0.2	1
116	The sunny side of greenhouse gas emissions – quantifying the contribution of aerobic methane production to global methane budgets. <i>New Phytologist</i> , 2010, 187, 263-265.	7.3	1
117	The direct effects of UV-B radiation on <i>Betula pubescens</i> litter decomposing at four European field sites. , 2001, , 27-36.		1