

Roy Neilson

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

3,227
citations

147801

31
h-index

168389

53
g-index

82
all docs

82
docs citations

82
times ranked

3676
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil nematode abundance and functional group composition at a global scale. <i>Nature</i> , 2019, 572, 194-198.	27.8	635
2	The Enigma of Soil Animal Species Diversity Revisited: The Role of Small-Scale Heterogeneity. <i>PLoS ONE</i> , 2010, 5, e11567.	2.5	108
3	Spatial variability of soil total C and N and their stable isotopes in an upland Scottish grassland. <i>Plant and Soil</i> , 1997, 196, 151-162.	3.7	99
4	Mapping earthworm communities in Europe. <i>Applied Soil Ecology</i> , 2016, 97, 98-111.	4.3	99
5	A critical review of current methods in earthworm ecology: From individuals to populations. <i>European Journal of Soil Biology</i> , 2010, 46, 67-73.	3.2	98
6	Feeding preferences of some earthworm species common to upland pastures in Scotland. <i>Pedobiologia</i> , 2003, 47, 1-8.	1.2	88
7	Nematode community and trophic structure along a sand dune succession. <i>Biology and Fertility of Soils</i> , 2002, 35, 293-301.	4.3	85
8	Integrating soil quality changes to arable agricultural systems following organic matter addition, or adoption of a ley-arable rotation. <i>Applied Soil Ecology</i> , 2010, 46, 43-53.	4.3	76
9	Temperate airborne grass pollen defined by spatio-temporal shifts in community composition. <i>Nature Ecology and Evolution</i> , 2019, 3, 750-754.	7.8	75
10	Ribosomal and Mitochondrial DNA Analyses of <i>Xiphinema americanum</i> -Group Populations. <i>Journal of Nematology</i> , 2006, 38, 404-10.	0.9	64
11	Stable isotope natural abundances of soil, plants and soil invertebrates in an upland pasture. <i>Soil Biology and Biochemistry</i> , 1998, 30, 1773-1782.	8.8	63
12	Determination of the optimal soil sample size to accurately characterise nematode communities in soil. <i>Soil Biology and Biochemistry</i> , 2015, 80, 89-91.	8.8	62
13	Phyllosphere of staple crops under pig manure fertilization, a reservoir of antibiotic resistance genes. <i>Environmental Pollution</i> , 2019, 252, 227-235.	7.5	62
14	Earthworm $\delta^{13}C$ and $\delta^{15}N$ analyses suggest that putative functional classifications of earthworms are site-specific and may also indicate habitat diversity. <i>Soil Biology and Biochemistry</i> , 2000, 32, 1053-1061.	8.8	61
15	Molecular sequencing and morphological analysis of a nematode community. <i>Applied Soil Ecology</i> , 2006, 32, 325-337.	4.3	58
16	Priming of soil organic matter mineralisation is intrinsically insensitive to temperature. <i>Soil Biology and Biochemistry</i> , 2013, 66, 20-28.	8.8	58
17	The Use of Colloidal Silica To Extract Nematodes From Small Samples of Soil or Sediment. <i>Nematologica</i> , 1990, 36, 465-473.	0.2	50
18	DNA extraction from soil nematodes for multi-sample community studies. <i>Applied Soil Ecology</i> , 2008, 38, 20-26.	4.3	50

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19	The Effect of Potential Climatic Changes On the Geographical Distribution of the Plant-Parasitic Nematodes <i>Xiphinema</i> and <i>Longidorus</i> in Europe. <i>Nematologica</i> , 1991, 37, 312-323.	0.2	49
20	A survey of root knot nematodes and resistance to <i>Meloidogyne incognita</i> in sweet potato varieties from Kenyan fields. <i>Crop Protection</i> , 2017, 92, 114-121.	2.1	47
21	Does reduced usage of antibiotics in livestock production mitigate the spread of antibiotic resistance in soil, earthworm guts, and the phyllosphere?. <i>Environment International</i> , 2020, 136, 105359.	10.0	47
22	Microbial and microfaunal communities in phosphorus limited, grazed grassland change composition but maintain homeostatic nutrient stoichiometry. <i>Soil Biology and Biochemistry</i> , 2014, 75, 94-101.	8.8	41
23	DNA Barcoding and Morphological Identification of Benthic Nematodes Assemblages of Estuarine Intertidal Sediments: Advances in Molecular Tools for Biodiversity Assessment. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	41
24	A comparison of molecular methods for monitoring soil nematodes and their use as biological indicators. <i>European Journal of Soil Biology</i> , 2010, 46, 319-324.	3.2	38
25	Validation of the specificity and sensitivity of species-specific primers that provide a reliable molecular diagnostic for <i>Xiphinema diversicaudatum</i> , <i>X. index</i> and <i>X. vuittenezi</i> . <i>European Journal of Plant Pathology</i> , 2004, 110, 779-788.	1.7	36
26	Real-time PCR detection and quantification of vector trichodoridae nematodes and Tobacco rattle virus. <i>Molecular and Cellular Probes</i> , 2006, 20, 203-211.	2.1	36
27	Development of species-specific primers for the ectoparasitic nematode species <i>Xiphinema brevicolle</i> , <i>X. diffusum</i> , <i>X. elongatum</i> , <i>X. ifacolum</i> and <i>X. longicaudatum</i> (Nematoda: Longidoridae) based on ribosomal DNA sequences. <i>Annals of Applied Biology</i> , 2005, 146, 281-288.	2.5	35
28	Mineral and organic fertilization alters the microbiome of a soil nematode <i>Dorylaimus stagnalis</i> and its resistome. <i>Science of the Total Environment</i> , 2019, 680, 70-78.	8.0	35
29	The diversity of earthworms in 200 Scottish fields and the possible effect of New Zealand land flatworms (<i>Arthurdendyus triangulatus</i>) on earthworm populations. <i>Annals of Applied Biology</i> , 2001, 139, 75-92.	2.5	33
30	Altered food web structure and C-flux pathways associated with mineralisation of organic amendments to agricultural soil. <i>Applied Soil Ecology</i> , 2011, 48, 107-116.	4.3	33
31	Microsatellite marker analysis of peach potato aphids (<i>Myzus persicae</i>), Homoptera: Aphididae) from Scottish suction traps. <i>Bulletin of Entomological Research</i> , 2006, 96, 573-582.	1.0	32
32	Bioindication potential of using molecular characterisation of the nematode community: Response to soil tillage. <i>European Journal of Soil Biology</i> , 2012, 49, 92-97.	3.2	30
33	Effects of decomposing cadavers on soil nematode communities over a one-year period. <i>Soil Biology and Biochemistry</i> , 2016, 103, 405-416.	8.8	30
34	Soil factors determined nematode community composition in a two year pot experiment. <i>Nematology</i> , 2003, 5, 889-897.	0.6	28
35	Development and validation of species-specific primers that provide a molecular diagnostic for virus-vector longidorid nematodes and related species in German viticulture. <i>European Journal of Plant Pathology</i> , 2004, 110, 883-891.	1.7	28
36	The effect of starvation on the planarian <i>Arthurdendyus triangulatus</i> (Tricladida: Terricola) as measured by stable isotopes. <i>Biology and Fertility of Soils</i> , 2006, 43, 267-270.	4.3	28

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37	New live screening of plant-nematode interactions in the rhizosphere. <i>Scientific Reports</i> , 2018, 8, 1440.	3.3	28
38	Agricultural activities affect the pattern of the resistome within the phyllosphere microbiome in peri-urban environments. <i>Journal of Hazardous Materials</i> , 2020, 382, 121068.	12.4	28
39	A novel molecular approach for rapid assessment of soil nematode assemblages " variation, validation and potential applications. <i>Methods in Ecology and Evolution</i> , 2012, 3, 12-23.	5.2	26
40	Fates of Antibiotic Resistance Genes in the Gut Microbiome from Different Soil Fauna under Long-Term Fertilization. <i>Environmental Science & Technology</i> , 2021, 55, 423-432.	10.0	26
41	Above-ground grazing affects floristic composition and modifies soil trophic interactions. <i>Soil Biology and Biochemistry</i> , 2002, 34, 1507-1512.	8.8	25
42	Microbial Flow Within an Air-Phyllosphere-Soil Continuum. <i>Frontiers in Microbiology</i> , 2020, 11, 615481.	3.5	25
43	Microbial community size is a potential predictor of nematode functional group in limed grasslands. <i>Applied Soil Ecology</i> , 2020, 156, 103702.	4.3	24
44	Vertical distribution of antibiotic resistance genes in an urban green facade. <i>Environment International</i> , 2021, 152, 106502.	10.0	24
45	The extent to which nematode communities are affected by soil factors-a pot experiment. <i>Nematology</i> , 2002, 4, 943-952.	0.6	23
46	Temporal host-parasite relationships of the wild rabbit, <i>Oryctolagus cuniculus</i> (L.) as revealed by stable isotope analyses. <i>Parasitology</i> , 2005, 131, 279-285.	1.5	23
47	Morphological and molecular characterisation of <i>Aphelenchoides besseyi</i> and <i>A. fujianensis</i> (Nematoda: Aphelenchoididae) from rice and forage grass seeds in Brazil. <i>Nematology</i> , 2016, 18, 337-356.	0.6	23
48	Prevalence of Antibiotic Resistome in Ready-to-Eat Salad. <i>Frontiers in Public Health</i> , 2020, 8, 92.	2.7	23
49	Phylogenetic Relationships Among <i>Xiphinema</i> and <i>Xiphidorus</i> Nematode Species from Brazil Inferred from 18S rDNA Sequences. <i>Journal of Nematology</i> , 2004, 36, 153-9.	0.9	23
50	Using a meta-analysis approach to understand complexity in soil biodiversity and phosphorus acquisition in plants. <i>Soil Biology and Biochemistry</i> , 2020, 142, 107695.	8.8	22
51	Discarded masks as hotspots of antibiotic resistance genes during COVID-19 pandemic. <i>Journal of Hazardous Materials</i> , 2022, 425, 127774.	12.4	22
52	Phylogenetic relationships, based on SSU rDNA sequences, among the didelphic genera of the family Trichodoridae from Portugal. <i>Nematology</i> , 2010, 12, 171-180.	0.6	21
53	Detection and differentiation between potato (<i>Solanum tuberosum</i>) diseases using calibration models trained with non-imaging spectrometry data. <i>Computers and Electronics in Agriculture</i> , 2019, 167, 105056.	7.7	21
54	Root-lesion nematodes of potato: Current status of diagnostics, pathogenicity and management. <i>Plant Pathology</i> , 2020, 69, 405-417.	2.4	21

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55	Plant parasitic nematode assemblages associated with sweet potato in Kenya and their relationship with environmental variables. <i>Tropical Plant Pathology</i> , 2017, 42, 1-12.	1.5	19
56	The persistence and spread of <i>Xiphinema diversicaudatum</i> in cultivated and uncultivated biotopes. <i>Annals of Applied Biology</i> , 1994, 124, 469-477.	2.5	18
57	Understanding soil erosion impacts in temperate agroecosystems: bridging the gap between geomorphology and soil ecology using nematodes as a model organism. <i>Biogeosciences</i> , 2013, 10, 7133-7145.	3.3	17
58	The potential spread of terrestrial planarians <i>Artioposthia triangulata</i> and <i>Australoplana sanguinea</i> var. <i>alba</i> to continental Europe. <i>Annals of Applied Biology</i> , 1995, 127, 385-390.	2.5	16
59	Mapping of earthworm distribution for the British Isles and Eire highlights the under-recording of an ecologically important group. <i>Biodiversity and Conservation</i> , 2012, 21, 475-485.	2.6	16
60	Greater coverage of the phylum Nematoda in SSU rDNA studies. <i>Biology and Fertility of Soils</i> , 2011, 47, 333-339.	4.3	15
61	<i>Longidorus cretensis</i> n. sp. (Nematoda: Longidoridae) from a vineyard infected with a foliar 'yellow mosaic' on Crete, Greece. <i>Systematic Parasitology</i> , 2001, 48, 131-139.	1.1	14
62	<i>Xiphinema krugi</i> , Species Complex or Complex of Cryptic Species?. <i>Journal of Nematology</i> , 2006, 38, 418-28.	0.9	13
63	Temporal and land use effects on soil bacterial community structure of the machair, an EU Habitats Directive Annex I low-input agricultural system. <i>Applied Soil Ecology</i> , 2014, 73, 116-123.	4.3	12
64	Hydrolysis probe-based PCR for detection of <i>Pratylenchus crenatus</i> , <i>P. neglectus</i> and <i>P. penetrans</i> . <i>Nematology</i> , 2017, 19, 81-91.	0.6	12
65	A Rapid Diagnostic for Detection of <i>Aphelenchoides besseyi</i> and <i>A. fujianensis</i> Based on Real-Time PCR. <i>Plant Disease</i> , 2018, 102, 519-526.	1.4	12
66	Effect of citrate on <i>Aspergillus niger</i> phytase adsorption and catalytic activity in soil. <i>Geoderma</i> , 2017, 305, 346-353.	5.1	11
67	Molecular diagnosis of trichodorid species from Portugal. <i>Plant Pathology</i> , 2011, 60, 586-594.	2.4	10
68	A study on <i>Maruca vitrata</i> infestation of Yard-long beans (<i>Vigna unguiculata</i> subspecies) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (s	3.2	10
69	Parallel Microbial Ecology of Pasteuria and Nematode Species in Scottish Soils. <i>Frontiers in Plant Science</i> , 2019, 10, 1763.	3.6	9
70	Seminar: Nematode Sampling and Prediction. <i>Nematologica</i> , 1992, 38, 459-465.	0.2	8
71	An assessment of morphometric variability between populations of <i>Longidorus vineicola</i> Sturhan & Weischer, 1964 (Nematoda: Longidoridae) and morphologically related species. <i>Systematic Parasitology</i> , 1997, 37, 93-103.	1.1	8
72	Over winter cover crops provide yield benefits for spring barley and maintain soil health in northern Europe. <i>European Journal of Agronomy</i> , 2021, 130, 126363.	4.1	8

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73	Mononchid nematodes from oak forests in Bulgaria. 1. The subfamily Anatonchinae Jairajpuri, 1969 with descriptions of Anatonchus genovi sp. n. and Tigronchoides quercus sp. n.. Nematology, 1999, 1, 37-53.	0.6	7
74	Molecular and morphometric analyses of Xiphidorus species (Nematoda: Longidoridae). Nematology, 2004, 6, 715-727.	0.6	5
75	Impact of land use and management practices on soil nematode communities of Machair, a low-input calcareous ecosystem of conservation importance. Science of the Total Environment, 2020, 738, 140164.	8.0	5
76	Soil carbon and nitrogen and barley yield responses to repeated additions of compost and slurry. Journal of Agricultural Science, 2017, 155, 141-155.	1.3	4
77	Natural abundances of ¹⁵ N and ¹³ C indicating physiological responses in Petunia hybrida to infection by longidorid nematodes and nepoviruses. Nematology, 1999, 1, 315-320.	0.6	3
78	Testing of Transmission of Tobraviruses by Nematodes. Current Protocols in Microbiology, 2009, 12, Unit16B.5.	6.5	3
79	Comparing the efficiency of six common methods for DNA extraction from root-lesion nematodes (Pratylenchus spp.). Nematology, 2020, 23, 415-423.	0.6	3
80	Genetic variability of Arthurdendyus triangulatus (Dendy, 1894), A non-native invasive land planarian. Zootaxa, 2020, 4808, zootaxa.4808.1.2.	0.5	2
81	Dynamic biospeckle analysis, a new tool for the fast screening of plant nematocide selectivity. Plant Methods, 2019, 15, 155.	4.3	1