

# Peter J Gregory

## List of Publications by Year in descending order

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109  
papers

8,089  
citations

57631

44  
h-index

51492

86  
g-index

131  
all docs

131  
docs citations

131  
times ranked

9130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Datasets for the development of hemp ( <i>Cannabis sativa</i> L.) as a crop for the future in tropical environments (Malaysia). <i>Data in Brief</i> , 2022, 40, 107807.	0.5	5
2	RUSSELL REVIEW Are plant roots only “in” soil or are they “of” it? Roots, soil formation and function. <i>European Journal of Soil Science</i> , 2022, 73, .	1.8	19
3	New methods for new questions about rhizosphere/plant root interactions. <i>Plant and Soil</i> , 2022, 476, 699-712.	1.8	9
4	Underutilised crops database for supporting agricultural diversification. <i>Computers and Electronics in Agriculture</i> , 2021, 180, 105920.	3.7	11
5	A framework for the development of hemp ( <i>Cannabis sativa</i> L.) as a crop for the future in tropical environments. <i>Industrial Crops and Products</i> , 2021, 172, 113999.	2.5	29
6	Crop model ideotyping for agricultural diversification. <i>MethodsX</i> , 2021, 8, 101420.	0.7	14
7	A Land Evaluation Framework for Agricultural Diversification. <i>Sustainability</i> , 2020, 12, 3110.	1.6	23
8	Enhancing the Nutritional Profile of Noodles With Bambara Groundnut ( <i>Vigna subterranea</i> ) and Moringa ( <i>Moringa oleifera</i> ): A Food System Approach. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	1.8	14
9	Root systems of major tropical root and tuber crops: Root architecture, size, and growth and initiation of storage organs. <i>Advances in Agronomy</i> , 2020, , 1-25.	2.4	15
10	Crops For the Future (CFF): an overview of research efforts in the adoption of underutilised species. <i>Planta</i> , 2019, 250, 979-988.	1.6	50
11	Dennis James Greenland. 13 June 1930–23 December 2012. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2019, 66, 225-241.	0.1	1
12	Approaches to reduce zinc and iron deficits in food systems. <i>Global Food Security</i> , 2017, 15, 1-10.	4.0	106
13	Editorial: Crop Traits for Defense against Pests and Disease: Durability, Breakdown and Future Prospects. <i>Frontiers in Plant Science</i> , 2017, 8, 209.	1.7	3
14	Quantifying rooting at depth in a wheat doubled haploid population with introgression from wild emmer. <i>Annals of Botany</i> , 2017, 120, 457-470.	1.4	6
15	A tillering inhibition gene influences root–shoot carbon partitioning and pattern of water use to improve wheat productivity in rainfed environments. <i>Journal of Experimental Botany</i> , 2016, 67, 327-340.	2.4	65
16	A new three-locus model for rootstock-induced dwarfing in apple revealed by genetic mapping of root bark percentage. <i>Journal of Experimental Botany</i> , 2016, 67, 1871-1881.	2.4	41
17	Soil, food security and human health: a review. <i>European Journal of Soil Science</i> , 2015, 66, 257-276.	1.8	217
18	Field phenotyping of potato to assess root and shoot characteristics associated with drought tolerance. <i>Plant and Soil</i> , 2014, 378, 351-363.	1.8	43

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19	Root elongation rate is correlated with the length of the bare root apex of maize and lupin roots despite contrasting responses of root growth to compact and dry soils. <i>Plant and Soil</i> , 2013, 372, 609-618.	1.8	14
20	Measuring variation in potato roots in both field and glasshouse: the search for useful yield predictors and a simple screen for root traits. <i>Plant and Soil</i> , 2013, 368, 231-249.	1.8	74
21	One hundred years of research at East Malling: science into practice for perennial fruit crops. <i>Annals of Applied Biology</i> , 2013, 163, 1-11.	1.3	6
22	Contributions of roots and rootstocks to sustainable, intensified crop production. <i>Journal of Experimental Botany</i> , 2013, 64, 1209-1222.	2.4	139
23	Climate change and sustainable food production. <i>Proceedings of the Nutrition Society</i> , 2013, 72, 21-28.	0.4	210
24	Matching roots to their environment. <i>Annals of Botany</i> , 2013, 112, 207-222.	1.4	247
25	Ecosystem Services: Nature's Balance Sheet. <i>Science</i> , 2013, 342, 421-421.	6.0	1
26	Estimating root-soil contact from 3D X-ray microtomographs. <i>European Journal of Soil Science</i> , 2012, 63, 776-786.	1.8	55
27	Attribution of climate change: a methodology to estimate the potential contribution to increases in potato yield in <scp>Scotland since 1960. <i>Global Change Biology</i> , 2012, 18, 1372-1388.	4.2	31
28	A vision for attaining food security. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 7-17.	3.1	140
29	Managing the Nutrition of Plants and People. <i>Applied and Environmental Soil Science</i> , 2012, 2012, 1-13.	0.8	56
30	Feeding nine billion: the challenge to sustainable crop production. <i>Journal of Experimental Botany</i> , 2011, 62, 5233-5239.	2.4	138
31	Elevated atmospheric carbon dioxide impairs the performance of root-feeding vine weevils by modifying root growth and secondary metabolites. <i>Global Change Biology</i> , 2011, 17, 688-695.	4.2	43
32	Implications of climate change for diseases, crop yields and food security. <i>Euphytica</i> , 2011, 179, 3-18.	0.6	197
33	Movement of newly assimilated <sup>13</sup> C carbon in the grass <i>Lolium perenne</i> and its incorporation into rhizosphere microbial DNA. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 535-540.	0.7	7
34	Competition for land. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 2941-2957.	1.8	365
35	Root growth models: towards a new generation of continuous approaches. <i>Journal of Experimental Botany</i> , 2010, 61, 2131-2143.	2.4	132
36	Effects of soil conditions and drought on egg hatching and larval survival of the clover root weevil ( <i>Sitona lepidus</i> ). <i>Applied Soil Ecology</i> , 2010, 44, 75-79.	2.1	32

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37	Dispersal of soil-dwelling clover root weevil ( <i>Sitona lepidus</i> Gyllenhal, Coleoptera: Curculionidae) larvae in mixed plant communities. <i>Applied Soil Ecology</i> , 2010, 46, 422-425.	2.1	4
38	Food Security: Focus on Agriculture. <i>Science</i> , 2010, 328, 172-173.	6.0	16
39	The effects of dwarfing genes on seedling root growth of wheat. <i>Journal of Experimental Botany</i> , 2009, 60, 2565-2573.	2.4	139
40	Measuring root traits in barley ( <i>Hordeum vulgare</i> ssp. <i>vulgare</i> and ssp. <i>spontaneum</i> ) seedlings using gel chambers, soil sacs and X-ray microtomography. <i>Plant and Soil</i> , 2009, 316, 285-297.	1.8	127
41	Viruses in soils: morphological diversity and abundance in the rhizosphere. <i>Annals of Applied Biology</i> , 2009, 155, 51-60.	1.3	75
42	Extracellular release of a heterologous phytase from roots of transgenic plants: does manipulation of rhizosphere biochemistry impact microbial community structure?. <i>FEMS Microbiology Ecology</i> , 2009, 70, 433-445.	1.3	44
43	Root phenomics of crops: opportunities and challenges. <i>Functional Plant Biology</i> , 2009, 36, 922.	1.1	163
44	Integrating pests and pathogens into the climate change/food security debate. <i>Journal of Experimental Botany</i> , 2009, 60, 2827-2838.	2.4	433
45	Exudation of Alcohol and Aldehyde Sugars from Roots of Defoliated <i>Lolium perenne</i> L. Grown Under Sterile Conditions. <i>Journal of Chemical Ecology</i> , 2008, 34, 1411-1421.	0.9	9
46	Solute movement through intact columns of cryoturbated Upper Chalk. <i>Hydrological Processes</i> , 2008, 22, 2086-2093.	1.1	2
47	Variation in root-associated phosphatase activities in wheat contributes to the utilization of organic P substrates in vitro, but does not explain differences in the P-nutrition of plants when grown in soils. <i>Environmental and Experimental Botany</i> , 2008, 64, 239-249.	2.0	90
48	Recovery of nitrogen from different sources following applications to winter wheat at and after anthesis. <i>Field Crops Research</i> , 2007, 100, 143-154.	2.3	54
49	Non-invasive techniques for investigating and modelling root-feeding insects in managed and natural systems. <i>Agricultural and Forest Entomology</i> , 2007, 9, 39-46.	0.7	39
50	A general random walk model for the leptokurtic distribution of organism movement: Theory and application. <i>Ecological Modelling</i> , 2007, 200, 79-88.	1.2	26
51	Egg hatching and survival time of soil-dwelling insect larvae: A partial differential equation model and experimental validation. <i>Ecological Modelling</i> , 2007, 202, 493-502.	1.2	17
52	Differential interaction of <i>Aspergillus niger</i> and <i>Peniophora lycii</i> phytases with soil particles affects the hydrolysis of inositol phosphates. <i>Soil Biology and Biochemistry</i> , 2007, 39, 793-803.	4.2	94
53	Chemically-mediated host-plant location and selection by root-feeding insects. <i>Physiological Entomology</i> , 2006, 31, 1-13.	0.6	145
54	Roots, rhizosphere and soil: the route to a better understanding of soil science?. <i>European Journal of Soil Science</i> , 2006, 57, 2-12.	1.8	372

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55	Depletion of organic phosphorus from Oxisols in relation to phosphatase activities in the rhizosphere. <i>European Journal of Soil Science</i> , 2006, 57, 47-57.	1.8	98
56	Genotype and fungicide effects on late-season root growth of winter wheat. <i>Plant and Soil</i> , 2006, 284, 33-44.	1.8	48
57	Modelling the movement and survival of the root-feeding clover weevil, <i>Sitona lepidus</i> , in the root-zone of white clover. <i>Ecological Modelling</i> , 2006, 190, 133-146.	1.2	13
58	The "mother knows best" principle: should soil insects be included in the preference-performance debate?. <i>Ecological Entomology</i> , 2006, 31, 395-401.	1.1	59
59	Fungicide and cultivar affect post-anthesis patterns of nitrogen uptake, remobilization and utilization efficiency in wheat. <i>Journal of Agricultural Science</i> , 2005, 143, 503-518.	0.6	44
60	Rhizosphere geometry and heterogeneity arising from root-mediated physical and chemical processes. <i>New Phytologist</i> , 2005, 168, 293-303.	3.5	480
61	Determination of the impact of continuous defoliation of <i>Lolium perenne</i> and <i>Trifolium repens</i> on bacterial and fungal community structure in rhizosphere soil. <i>Biology and Fertility of Soils</i> , 2005, 41, 109-115.	2.3	17
62	Soil fertility management in the mid-hills of Nepal: Practices and perceptions. <i>Agriculture and Human Values</i> , 2005, 22, 243-258.	1.7	23
63	Attractive Properties of an Isoflavonoid Found in White Clover Root Nodules on the Clover Root Weevil. <i>Journal of Chemical Ecology</i> , 2005, 31, 2223-2229.	0.9	35
64	CARBON (13C) AND NITROGEN (15N) TRANSLOCATION IN A MAIZE-STRIGA HERMONTHICA ASSOCIATION. <i>Experimental Agriculture</i> , 2005, 41, 321-333.	0.4	12
65	Climate change and food security. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 2139-2148.	1.8	585
66	Dynamics of Potassium Leaching on a Hillslope Grassland Soil. <i>Journal of Environmental Quality</i> , 2004, 33, 192-200.	1.0	23
67	Tracking larval insect movement within soil using high resolution X-ray microtomography. <i>Ecological Entomology</i> , 2004, 29, 117-122.	1.1	59
68	Host plant recognition by the root feeding clover weevil, <i>Sitona lepidus</i> (Coleoptera: Curculionidae). <i>Bulletin of Entomological Research</i> , 2004, 94, 433-439.	0.5	23
69	Leaching of nitrate from cropped rainfed terraces in the mid-hills of Nepal. <i>Nutrient Cycling in Agroecosystems</i> , 2004, 69, 221-232.	1.1	7
70	Uneven distribution of nutrients in the root zone affects the incidence of blossom end rot and concentration of calcium and potassium in fruits of tomato. <i>Plant and Soil</i> , 2004, 258, 169-178.	1.8	28
71	Competition in tree row agroforestry systems. 3. Soil water distribution and dynamics. <i>Plant and Soil</i> , 2004, 264, 129-139.	1.8	47
72	Distribution of nutrients in the root zone affects yield, quality and blossom end rot of tomato fruits. <i>Journal of Horticultural Science and Biotechnology</i> , 2004, 79, 158-163.	0.9	2

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73	Non-invasive imaging of roots with high resolution X-ray micro-tomography. <i>Plant and Soil</i> , 2003, 255, 351-359.	1.8	147
74	An X-ray micro-tomography system optimised for the low-dose study of living organisms. <i>Applied Radiation and Isotopes</i> , 2003, 58, 177-181.	0.7	57
75	Plant roots release phospholipid surfactants that modify the physical and chemical properties of soil. <i>New Phytologist</i> , 2003, 157, 315-326.	3.5	250
76	Modelling Cereal Root Systems for Water and Nitrogen Capture: Towards an Economic Optimum. <i>Annals of Botany</i> , 2003, 91, 383-390.	1.4	213
77	GROWTH AND BIOMASS PARTITIONING OF MAIZE DURING VEGETATIVE GROWTH IN RESPONSE TO STRIGA HERMONTHICA INFECTION AND NITROGEN SUPPLY. <i>Experimental Agriculture</i> , 2002, 38, 265-276.	0.4	20
78	Phosphatase activity and organic acids in the rhizosphere of potential agroforestry species and maize. <i>Soil Biology and Biochemistry</i> , 2002, 34, 1487-1494.	4.2	132
79	Dynamics of water movement on Chalkland. <i>Journal of Hydrology</i> , 2002, 257, 27-41.	2.3	30
80	Environmental consequences of alternative practices for intensifying crop production. <i>Agriculture, Ecosystems and Environment</i> , 2002, 88, 279-290.	2.5	169
81	Water resources and their use in food production systems. <i>Aquatic Sciences</i> , 2002, 64, 363-375.	0.6	73
82	Fate of nitrogen-15-labelled fertilizer applied to maize-millet cropping systems in the mid-hills of Nepal. <i>Biology and Fertility of Soils</i> , 2002, 35, 27-34.	2.3	32
83	Title is missing!. <i>Plant and Soil</i> , 2002, 247, 177-187.	1.8	17
84	Title is missing!. <i>Plant and Soil</i> , 2002, 246, 65-73.	1.8	62
85	Utilisation of soil organic P by agroforestry and crop species in the field, western Kenya. <i>Plant and Soil</i> , 2002, 246, 53-63.	1.8	33
86	Inorganic soil nitrogen distribution in relation to soil properties in smallholder maize fields in the Kenya highlands. <i>Geoderma</i> , 2001, 101, 87-103.	2.3	6
87	Title is missing!. <i>Agroforestry Systems</i> , 2001, 52, 199-205.	0.9	21
88	Global change and food and forest production: future scientific challenges. <i>Agriculture, Ecosystems and Environment</i> , 2000, 82, 3-14.	2.5	93
89	Nitrogen balances for households in the mid-hills of Nepal. <i>Agriculture, Ecosystems and Environment</i> , 2000, 79, 61-72.	2.5	41
90	Title is missing!. <i>Plant and Soil</i> , 2000, 221, 239-251.	1.8	18

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91	Title is missing!. Plant and Soil, 2000, 227, 149-161.	1.8	60
92	Land use affects the distribution of soil inorganic nitrogen in smallholder production systems in Kenya. Biology and Fertility of Soils, 2000, 31, 348-355.	2.3	33
93	Physical changes in the rhizosphere and their significance for plant-soil interactions. Acta Agronomica Hungarica: an International Multidisciplinary Journal in Agricultural Science, 2000, 48, 107-112.	0.2	1
94	Soil Type, Climatic Regime, and the Response of Water Use Efficiency to Crop Management. Agronomy Journal, 2000, 92, 814-820.	0.9	71
95	Pattern of grain set in boron-deficient and cold-stressed wheat (Triticum aestivum L.). Journal of Agricultural Science, 2000, 134, 25-31.	0.6	12
96	Physical properties of axenic maize root mucilage. Plant and Soil, 1999, 211, 87-91.	1.8	55
97	New approaches to studying chemical and physical changes in the rhizosphere: an overview. Plant and Soil, 1999, 211, 1-9.	1.8	79
98	Title is missing!. Plant and Soil, 1999, 214, 141-152.	1.8	24
99	The influence of early sowing of wheat and lupin crops on evapotranspiration and evaporation from the soil surface in a Mediterranean climate. Agricultural Water Management, 1999, 42, 205-218.	2.4	33
100	RESPONSE OF WHEATâ€“RICE AND MAIZE/MILLET SYSTEMS TO FERTILIZER AND MANURE APPLICATIONS IN THE MID-HILLS OF NEPAL. Experimental Agriculture, 1999, 35, 1-13.	0.4	21
101	Title is missing!. Plant and Soil, 1998, 207, 183-193.	1.8	38
102	Soils: A Neglected Resource in Urban Areas. , 0, , 1-4.		10
103	Development and Growth of Root Systems. , 0, , 45-79.		5
104	Roots and the Biological Environment. , 0, , 174-215.		3
105	Root Systems as Management Tools. , 0, , 286-308.		0
106	Rhizosphere Engineering by Plants: Quantifying Soil-Root Interactions. Advances in Agricultural Systems Modeling, 0, , 1-30.	0.3	6
107	Climate change and the current 'food crisis'.. CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, 0, , 1-10.	0.6	9
108	More Research in Soil Science from Wiley-Blackwell. , 0, , G1-G1.		0

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109	Climate and other environmental changes. , 0, , 206-213.		0