

Rachel Creamer

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

5,044
citations

117571

34
h-index

95218

68
g-index

95
all docs

95
docs citations

95
times ranked

6343
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil quality – A critical review. <i>Soil Biology and Biochemistry</i> , 2018, 120, 105-125.	4.2	1,441
2	Soil nematode abundance and functional group composition at a global scale. <i>Nature</i> , 2019, 572, 194-198.	13.7	635
3	Soil biodiversity, biological indicators and soil ecosystem services – an overview of European approaches. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 529-538.	3.1	213
4	Functional land management: A framework for managing soil-based ecosystem services for the sustainable intensification of agriculture. <i>Environmental Science and Policy</i> , 2014, 38, 45-58.	2.4	193
5	Ecological network analysis reveals the inter-connection between soil biodiversity and ecosystem function as affected by land use across Europe. <i>Applied Soil Ecology</i> , 2016, 97, 112-124.	2.1	184
6	Monitoring soil bacteria with community-level physiological profiles using Biolog [®] , [®] ECO-plates in the Netherlands and Europe. <i>Applied Soil Ecology</i> , 2016, 97, 23-35.	2.1	131
7	Eco-functionality of organic matter in soils. <i>Plant and Soil</i> , 2020, 455, 1-22.	1.8	116
8	A critical review of current methods in earthworm ecology: From individuals to populations. <i>European Journal of Soil Biology</i> , 2010, 46, 67-73.	1.4	98
9	A Functional Land Management conceptual framework under soil drainage and land use scenarios. <i>Environmental Science and Policy</i> , 2016, 56, 39-48.	2.4	80
10	Measuring basal soil respiration across Europe: Do incubation temperature and incubation period matter?. <i>Ecological Indicators</i> , 2014, 36, 409-418.	2.6	74
11	Measuring respiration profiles of soil microbial communities across Europe using MicroResp [®] , [®] method. <i>Applied Soil Ecology</i> , 2016, 97, 36-43.	2.1	74
12	Selection of biological indicators appropriate for European soil monitoring. <i>Applied Soil Ecology</i> , 2016, 97, 12-22.	2.1	71
13	Making the Most of Our Land: Managing Soil Functions from Local to Continental Scale. <i>Frontiers in Environmental Science</i> , 2015, 3, .	1.5	69
14	Traits of collembolan life-form indicate land use types and soil properties across an European transect. <i>Applied Soil Ecology</i> , 2016, 97, 69-77.	2.1	68
15	Improving the identification of hydrologically sensitive areas using LiDAR DEMs for the delineation and mitigation of critical source areas of diffuse pollution. <i>Science of the Total Environment</i> , 2016, 556, 276-290.	3.9	61
16	The life of soils: Integrating the who and how of multifunctionality. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108561.	4.2	57
17	Soil parameters, land use, and geographical distance drive soil bacterial communities along a European transect. <i>Scientific Reports</i> , 2019, 9, 605.	1.6	56
18	The elusive role of soil quality in nutrient cycling: a review. <i>Soil Use and Management</i> , 2016, 32, 476-486.	2.6	53

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19	Clay illuviation provides a long-term sink for C sequestration in subsoils. <i>Scientific Reports</i> , 2017, 7, 45635.	1.6	53
20	Functional Land Management for managing soil functions: A case-study of the trade-off between primary productivity and carbon storage in response to the intervention of drainage systems in Ireland. <i>Land Use Policy</i> , 2015, 47, 42-54.	2.5	52
21	Gap assessment in current soil monitoring networks across Europe for measuring soil functions. <i>Environmental Research Letters</i> , 2017, 12, 124007.	2.2	49
22	Harvesting European knowledge on soil functions and land management using multi-criteria decision analysis. <i>Soil Use and Management</i> , 2019, 35, 6-20.	2.6	48
23	Do elevated soil concentrations of metals affect the diversity and activity of soil invertebrates in the long-term?. <i>Soil Use and Management</i> , 2008, 24, 37-46.	2.6	46
24	A Field-Scale Decision Support System for Assessment and Management of Soil Functions. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	46
25	A global database of soil nematode abundance and functional group composition. <i>Scientific Data</i> , 2020, 7, 103.	2.4	46
26	Implications of the proposed Soil Framework Directive on agricultural systems in Atlantic Europe – a review. <i>Soil Use and Management</i> , 2010, 26, 198-211.	2.6	45
27	Indicator species and co-occurrence in communities of arbuscular mycorrhizal fungi at the European scale. <i>Soil Biology and Biochemistry</i> , 2016, 103, 464-470.	4.2	43
28	European scale analysis of phospholipid fatty acid composition of soils to establish operating ranges. <i>Applied Soil Ecology</i> , 2016, 97, 49-60.	2.1	43
29	The influence of aggregate size fraction and horizon position on microbial community composition. <i>Applied Soil Ecology</i> , 2018, 127, 19-29.	2.1	43
30	The Impact of Policy Instruments on Soil Multifunctionality in the European Union. <i>Sustainability</i> , 2017, 9, 407.	1.6	41
31	Soil exo-enzyme activities across Europe – The influence of climate, land-use and soil properties. <i>Applied Soil Ecology</i> , 2016, 97, 44-48.	2.1	39
32	Soil multifunctionality: Synergies and trade-offs across European climatic zones and land uses. <i>European Journal of Soil Science</i> , 2021, 72, 1640-1654.	1.8	39
33	Soil bacterial community structure and functional responses across a long-term mineral phosphorus (Pi) fertilisation gradient differ in grazed and cut grasslands. <i>Applied Soil Ecology</i> , 2019, 138, 134-143.	2.1	38
34	Modeling of Soil Functions for Assessing Soil Quality: Soil Biodiversity and Habitat Provisioning. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	37
35	The practicalities and pitfalls of establishing a policy-relevant and cost-effective soil biological monitoring scheme. <i>Integrated Environmental Assessment and Management</i> , 2013, 9, 276-284.	1.6	34
36	Using machine learning to predict soil bulk density on the basis of visual parameters: Tools for in-field and post-field evaluation. <i>Geoderma</i> , 2018, 318, 137-147.	2.3	32

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37	A review of the role of excess soil moisture conditions in constraining farm practices under Atlantic conditions. <i>Soil Use and Management</i> , 2012, 28, 580-589.	2.6	31
38	A method of establishing a transect for biodiversity and ecosystem function monitoring across Europe. <i>Applied Soil Ecology</i> , 2016, 97, 3-11.	2.1	29
39	Effects of soil type and depth on carbon distribution within soil macroaggregates from temperate grassland systems. <i>Geoderma</i> , 2018, 313, 52-56.	2.3	29
40	An inter-laboratory comparison of multi-enzyme and multiple substrate-induced respiration assays to assess method consistency in soil monitoring. <i>Biology and Fertility of Soils</i> , 2009, 45, 623-633.	2.3	28
41	Pedotransfer functions for Irish soils – estimation of bulk density (<i>ρ</i>) per horizon type. <i>Soil</i> , 2016, 2, 25-39.	2.2	25
42	The impact of cattle dung pats on earthworm distribution in grazed pastures. <i>BMC Ecology</i> , 2018, 18, 59.	3.0	25
43	Improving forest soil carbon models using spatial data and geostatistical approaches. <i>Geoderma</i> , 2014, 232-234, 487-499.	2.3	23
44	Multi-Functional Land Use Is Not Self-Evident for European Farmers: A Critical Review. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	22
45	Consequences of varied soil hydraulic and meteorological complexity on unsaturated zone time lag estimates. <i>Journal of Contaminant Hydrology</i> , 2014, 170, 53-67.	1.6	21
46	Mite community composition across a European transect and its relationships to variation in other components of soil biodiversity. <i>Applied Soil Ecology</i> , 2016, 97, 86-97.	2.1	21
47	A framework for determining unsaturated zone water quality time lags at catchment scale. <i>Agriculture, Ecosystems and Environment</i> , 2017, 236, 234-242.	2.5	21
48	Functional Land Management: Bridging the Think-Do-Gap using a multi-stakeholder science policy interface. <i>Ambio</i> , 2018, 47, 216-230.	2.8	20
49	The effects of increasing land use intensity on soil nematodes: A turn towards specialism. <i>Functional Ecology</i> , 2019, 33, 2003-2016.	1.7	20
50	Soil mass and grind size used for sample homogenization strongly affect permanganate-oxidizable carbon (POXC) values, with implications for its use as a national soil health indicator. <i>Geoderma</i> , 2021, 383, 114742.	2.3	20
51	Insensitivity of soil biological communities to phosphorus fertilization in intensively managed grassland systems. <i>Grass and Forage Science</i> , 2016, 71, 139-152.	1.2	17
52	Digging deeper: Understanding the contribution of subsoil carbon for climate mitigation, a case study of Ireland. <i>Environmental Science and Policy</i> , 2019, 98, 61-69.	2.4	17
53	Soil biodiversity data: Actual and potential use in European and national legislation. <i>Applied Soil Ecology</i> , 2016, 97, 125-133.	2.1	16
54	Soil protection for a sustainable future: options for a soil monitoring network for Ireland. <i>Soil Use and Management</i> , 2017, 33, 346-363.	2.6	15

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55	Assessing the Climate Regulation Potential of Agricultural Soils Using a Decision Support Tool Adapted to Stakeholders' Needs and Possibilities. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	15
56	Modelling soil bulk density at the landscape scale and its contributions to C stock uncertainty. <i>Biogeosciences</i> , 2013, 10, 4691-4704.	1.3	14
57	Trafficking intensity index for soil compaction management in grasslands. <i>Soil Use and Management</i> , 2021, 37, 504-518.	2.6	14
58	Linking diagnostic features to soil microbial biomass and respiration in agricultural grassland soil: a large-scale study in Ireland. <i>European Journal of Soil Science</i> , 2018, 69, 414-428.	1.8	13
59	Grass<scp>VESS</scp>: a modification of the visual evaluation of soil structure method for grasslands. <i>Soil Use and Management</i> , 2018, 34, 37-47.	2.6	12
60	Assessing multifunctionality of agricultural soils: Reducing the biodiversity trade-off. <i>European Journal of Soil Science</i> , 2021, 72, 1624-1639.	1.8	12
61	A note on the Hybrid Soil Moisture Deficit Model v2.0. <i>Irish Journal of Agricultural and Food Research</i> , 2015, 54, 126-131.	0.2	11
62	Microbial community structure and function respond more strongly to temporal progression than to the application of slurry in an Irish grassland. <i>Applied Soil Ecology</i> , 2017, 120, 97-104.	2.1	11
63	The application of expert knowledge in Bayesian networks to predict soil bulk density at the landscape scale. <i>European Journal of Soil Science</i> , 2015, 66, 930-941.	1.8	10
64	A Decision Support Model for Assessing the Water Regulation and Purification Potential of Agricultural Soils Across Europe. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	1.8	10
65	A flexible selection tool for the inclusion of soil biology methods in the assessment of soil multifunctionality. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108514.	4.2	10
66	Validating digital soil maps using soil taxonomic distance: A case study of Ireland. <i>Geoderma Regional</i> , 2015, 5, 188-197.	0.9	8
67	A methodological framework to determine optimum durations for the construction of soil water characteristic curves using centrifugation. <i>Irish Journal of Agricultural and Food Research</i> , 2016, 55, 91-99.	0.2	8
68	Application of Dexter's soil physical quality index: an Irish case study. <i>Irish Journal of Agricultural and Food Research</i> , 2017, 56, 45-53.	0.2	8
69	Does soil biology hold the key to optimized slurry management? A manifesto for research. <i>Soil Use and Management</i> , 2011, 27, 464-469.	2.6	7
70	The effects of earthworms, botanical diversity and fertiliser type on the vertical distribution of soil nutrients and plant nutrient acquisition. <i>Biology and Fertility of Soils</i> , 2013, 49, 1189-1201.	2.3	7
71	Exploring Climate-Smart Land Management for Atlantic Europe. <i>Agricultural and Environmental Letters</i> , 2016, 1, 160029.	0.8	7
72	Indicators for monitoring soil biodiversity. <i>Integrated Environmental Assessment and Management</i> , 2009, 5, 717-719.	1.6	4

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73	How to make regenerative practices work on the farm: A modelling framework. <i>Agricultural Systems</i> , 2022, 198, 103371.	3.2	4
74	An Assessment of Climate Induced Increase in Soil Water Availability for Soil Bacterial Communities Exposed to Long-Term Differential Phosphorus Fertilization. <i>Frontiers in Microbiology</i> , 2020, 11, 682.	1.5	3
75	Soil Functions—An Introduction. <i>World Soils Book Series</i> , 2018, , 201-208.	0.1	2
76	Soil Fertility and Nutrient Cycling. <i>World Soils Book Series</i> , 2018, , 223-234.	0.1	1
77	The Living Soil: Biodiversity and Functions. <i>World Soils Book Series</i> , 2018, , 257-265.	0.1	0
78	Limestone Lowlands. <i>World Soils Book Series</i> , 2018, , 153-161.	0.1	0
79	Soil Classification. <i>World Soils Book Series</i> , 2018, , 39-54.	0.1	0
80	A History of Soil Research with Emphasis on Pedology. <i>World Soils Book Series</i> , 2018, , 1-9.	0.1	0
81	Editorial for special issue on “understanding soil functions” from ped to planet. <i>European Journal of Soil Science</i> , 2021, 72, 1493.	1.8	0
82	Hill Landscapes. <i>World Soils Book Series</i> , 2018, , 129-139.	0.1	0
83	Soils and Productivity. <i>World Soils Book Series</i> , 2018, , 209-222.	0.1	0
84	Rolling Lowlands. <i>World Soils Book Series</i> , 2018, , 163-174.	0.1	0
85	Drumlin Landscapes. <i>World Soils Book Series</i> , 2018, , 175-184.	0.1	0
86	Soils and Carbon Storage. <i>World Soils Book Series</i> , 2018, , 245-256.	0.1	0
87	Mountain Landscapes. <i>World Soils Book Series</i> , 2018, , 119-128.	0.1	0