

Jim A Harris

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

10,488
citations

71102

41
h-index

32842

100
g-index

114
all docs

114
docs citations

114
times ranked

12864
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel ecosystems: implications for conservation and restoration. <i>Trends in Ecology and Evolution</i> , 2009, 24, 599-605.	8.7	1,485
2	Using ecological diversity measures with bacterial communities. <i>FEMS Microbiology Ecology</i> , 2003, 43, 1-11.	2.7	724
3	Ecological Restoration and Global Climate Change. <i>Restoration Ecology</i> , 2006, 14, 170-176.	2.9	692
4	Restoration Ecology: Repairing the Earth's Ecosystems in the New Millennium. <i>Restoration Ecology</i> , 2001, 9, 239-246.	2.9	655
5	<i>Candidatus Scalindia brodae</i> sp. nov., <i>Candidatus Scalindia wagneri</i> sp. nov., Two New Species of Anaerobic Ammonium Oxidizing Bacteria. <i>Systematic and Applied Microbiology</i> , 2003, 26, 529-538.	2.8	535
6	Evidence of a feedback mechanism limiting plant response to elevated carbon dioxide. <i>Nature</i> , 1993, 364, 616-617.	27.8	532
7	Soil Microbial Communities and Restoration Ecology: Facilitators or Followers?. <i>Science</i> , 2009, 325, 573-574.	12.6	477
8	Managing the whole landscape: historical, hybrid, and novel ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 557-564.	4.0	378
9	Development of a physiological approach to measuring the catabolic diversity of soil microbial communities. <i>Soil Biology and Biochemistry</i> , 1997, 29, 1309-1320.	8.8	326
10	Resilience in ecology: Abstraction, distraction, or where the action is?. <i>Biological Conservation</i> , 2014, 177, 43-51.	4.1	325
11	The changing role of history in restoration ecology. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 499-506.	4.0	299
12	Measurements of the soil microbial community for estimating the success of restoration. <i>European Journal of Soil Science</i> , 2003, 54, 801-808.	3.9	227
13	Selecting biological indicators for monitoring soils: A framework for balancing scientific and technical opinion to assist policy development. <i>Ecological Indicators</i> , 2009, 9, 1212-1221.	6.3	227
14	Impact of rapid urban expansion on green space structure. <i>Ecological Indicators</i> , 2017, 81, 274-284.	6.3	148
15	Towards an evolutionary ecology of life in soil. <i>Trends in Ecology and Evolution</i> , 2005, 20, 81-87.	8.7	141
16	Zinc contamination decreases the bacterial diversity of agricultural soil. <i>FEMS Microbiology Ecology</i> , 2003, 43, 13-19.	2.7	136
17	The total costs of soil degradation in England and Wales. <i>Ecological Economics</i> , 2015, 119, 399-413.	5.7	135
18	Microbial diversity affects self-organization of the soil's microbe system with consequences for function. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1302-1310.	3.4	131

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19	The impact of land use/land cover scale on modelling urban ecosystem services. <i>Landscape Ecology</i> , 2016, 31, 1509-1522.	4.2	130
20	Shifts in the microbial community in rhizosphere and non-rhizosphere soils during the growth of <i>Agrostis stolonifera</i> . <i>Soil Biology and Biochemistry</i> , 2000, 32, 869-878.	8.8	128
21	Opportunities and Challenges for Ecological Restoration within REDD+. <i>Restoration Ecology</i> , 2011, 19, 683-689.	2.9	105
22	The impact of zero-valent iron nanoparticles upon soil microbial communities is context dependent. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1041-1049.	5.3	101
23	Ecological Restoration: State of the Art or State of the Science?. <i>Restoration Ecology</i> , 2001, 9, 115-118.	2.9	96
24	Linking ecosystem services, urban form and green space configuration using multivariate landscape metric analysis. <i>Landscape Ecology</i> , 2018, 33, 557-573.	4.2	96
25	Soil microbial activity in opencast coal mine restorations. <i>Soil Use and Management</i> , 1989, 5, 155-160.	4.9	77
26	Urban meadows as an alternative to short mown grassland: effects of composition and height on biodiversity. <i>Ecological Applications</i> , 2019, 29, e01946.	3.8	76
27	A bird's eye view: using circuit theory to study urban landscape connectivity for birds. <i>Landscape Ecology</i> , 2017, 32, 1771-1787.	4.2	75
28	Changes in the microbial community and physico-chemical characteristics of topsoils stockpiled during opencast mining. <i>Soil Use and Management</i> , 1989, 5, 161-168.	4.9	74
29	Characterising the biophysical, economic and social impacts of soil carbon sequestration as a greenhouse gas removal technology. <i>Global Change Biology</i> , 2020, 26, 1085-1108.	9.5	65
30	A review of the impacts of degradation threats on soil properties in the UK. <i>Soil Use and Management</i> , 2015, 31, 1-15.	4.9	64
31	Habitat Classification and Soil Restoration Assessment Using Analysis of Soil Microbiological and Physico-chemical Characteristics. <i>Journal of Applied Ecology</i> , 1992, 29, 711.	4.0	63
32	Input constraints to food production: the impact of soil degradation. <i>Food Security</i> , 2015, 7, 351-364.	5.3	62
33	Nanoparticles within WWTP sludges have minimal impact on leachate quality and soil microbial community structure and function. <i>Environmental Pollution</i> , 2016, 211, 399-405.	7.5	61
34	Defining and quantifying the resilience of responses to disturbance: a conceptual and modelling approach from soil science. <i>Scientific Reports</i> , 2016, 6, 28426.	3.3	58
35	On principles and standards in ecological restoration. <i>Restoration Ecology</i> , 2018, 26, 399-403.	2.9	58
36	Ecosystem services in cities: Towards the international legal protection of ecosystem services in urban environments. <i>Ecosystem Services</i> , 2018, 29, 205-212.	5.4	54

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37	On the origin of carbon dioxide released from rewetted soils. <i>Soil Biology and Biochemistry</i> , 2016, 101, 1-5.	8.8	53
38	Novel ecosystems: concept or inconvenient reality? A response to Murcia et al.. <i>Trends in Ecology and Evolution</i> , 2014, 29, 645-646.	8.7	51
39	Ecological connectivity networks in rapidly expanding cities. <i>Heliyon</i> , 2017, 3, e00325.	3.2	49
40	The Role of Botanic Gardens in the Science and Practice of Ecological Restoration. <i>Conservation Biology</i> , 2011, 25, no-no.	4.7	48
41	Microbial biomass estimated by phospholipid phosphate in soils with diverse microbial communities. <i>Soil Biology and Biochemistry</i> , 1993, 25, 1779-1786.	8.8	44
42	Facilitating ecosystem assembly: Plant-soil interactions as a restoration tool. <i>Biological Conservation</i> , 2018, 220, 272-279.	4.1	41
43	Rapid ultrasonication method to determine ergosterol concentration in soil. <i>Soil Biology and Biochemistry</i> , 1995, 27, 1215-1217.	8.8	40
44	Linear relationship between aggregate stability and microbial biomass in three restored soils. <i>Soil Biology and Biochemistry</i> , 1995, 27, 1499-1501.	8.8	38
45	Adaptation to climate change
 Legal challenges for protected areas. <i>Utrecht Law Review</i> , 2009, 5, 158.	0.5	38
46	Inefficiency of mustard extraction technique for assessing size and structure of earthworm communities in UK pasture. <i>Soil Biology and Biochemistry</i> , 2006, 38, 2990-2992.	8.8	36
47	A review of climate change impacts on urban soil functions with examples and policy insights from <sc>E</sc>ngland, <sc>UK</sc>. <i>Soil Use and Management</i> , 2015, 31, 46-61.	4.9	35
48	The thermodynamic efficiency of soil microbial communities subject to long-term stress is lower than those under conventional input regimes. <i>Soil Biology and Biochemistry</i> , 2012, 47, 149-157.	8.8	34
49	Bundling ecosystem services at a high resolution in the UK: trade-offs and synergies in urban landscapes. <i>Landscape Ecology</i> , 2021, 36, 1817-1835.	4.2	34
50	Microbial Community Composition in a Rehabilitated Bauxite Residue Disposal Area: A Case Study for Improving Microbial Community Composition. <i>Restoration Ecology</i> , 2014, 22, 798-805.	2.9	33
51	Resilience trinity: safeguarding ecosystem functioning and services across three different time horizons and decision contexts. <i>Oikos</i> , 2020, 129, 445-456.	2.7	33
52	Estimating food production in an urban landscape. <i>Scientific Reports</i> , 2020, 10, 5141.	3.3	31
53	Artificial modifications of the coast in response to theDeepwater Horizonoil spill: quick solutions or long-term liabilities?. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 44-49.	4.0	30
54	Future restoration should enhance ecological complexity and emergent properties at multiple scales. <i>Ecography</i> , 2022, 2022, .	4.5	30

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55	Understanding the importance of landscape configuration on ecosystem service bundles at a high resolution in urban landscapes in the UK. <i>Landscape Ecology</i> , 2021, 36, 2007-2024.	4.2	29
56	Assessment of heat mitigation capacity of urban greenspaces with the use of InVEST urban cooling model, verified with day-time land surface temperature data. <i>Landscape and Urban Planning</i> , 2021, 214, 104163.	7.5	29
57	Bioremediation of leachate from a green waste composting facility using waste-derived filter media. <i>Bioresource Technology</i> , 2008, 99, 7657-7664.	9.6	28
58	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.	4.3	28
59	Flexible and Adaptable Restoration: An Example from South Korea. <i>Restoration Ecology</i> , 2014, 22, 271-278.	2.9	28
60	A framework to evaluate land degradation and restoration responses for improved planning and decision-making. <i>Ecosystems and People</i> , 2020, 16, 1-18.	3.2	28
61	The effect of earthworms and liming on soil microbial communities. <i>Biology and Fertility of Soils</i> , 2009, 45, 361-369.	4.3	27
62	Measuring progress in status of land under forest landscape restoration using abiotic and biotic indicators. <i>Restoration Ecology</i> , 2018, 26, 5-12.	2.9	27
63	A framework for establishing restoration goals for contaminated ecosystems. <i>Integrated Environmental Assessment and Management</i> , 2016, 12, 264-272.	2.9	26
64	The survival of viable seeds in stored topsoil from opencast coal workings and its implications for site restoration. <i>Biological Conservation</i> , 1988, 43, 257-265.	4.1	25
65	Keep ecological restoration open and flexible. <i>Nature Ecology and Evolution</i> , 2018, 2, 580-580.	7.8	25
66	Inorganic Chemical Fertilizer Application to Wheat Reduces the Abundance of Putative Plant Growth-Promoting Rhizobacteria. <i>Frontiers in Microbiology</i> , 2021, 12, 642587.	3.5	23
67	Downscaling Landsat-8 land surface temperature maps in diverse urban landscapes using multivariate adaptive regression splines and very high resolution auxiliary data. <i>International Journal of Digital Earth</i> , 2020, 13, 899-914.	3.9	22
68	Evolution of Green Space under Rapid Urban Expansion in Southeast Asian Cities. <i>Sustainability</i> , 2021, 13, 12024.	3.2	22
69	Using GIS-linked Bayesian Belief Networks as a tool for modelling urban biodiversity. <i>Landscape and Urban Planning</i> , 2019, 189, 382-395.	7.5	21
70	The spectral quality of light influences the temporal development of the microbial phenotype at the arable soil surface. <i>Soil Biology and Biochemistry</i> , 2009, 41, 553-560.	8.8	19
71	Microbial community phenotypic profiles change markedly with depth within the first centimetre of the arable soil surface. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1226-1229.	8.8	17
72	Interactions between microbial community structure and the soil environment found on golf courses. <i>Soil Biology and Biochemistry</i> , 2007, 39, 1533-1541.	8.8	17

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73	Distinct respiratory responses of soils to complex organic substrate are governed predominantly by soil architecture and its microbial community. <i>Soil Biology and Biochemistry</i> , 2016, 103, 493-501.	8.8	17
74	A multistep approach to improving connectivity and co-use of spatial ecological networks in cities. <i>Landscape Ecology</i> , 2021, 36, 2077-2093.	4.2	17
75	Evidence for functional state transitions in intensively-managed soil ecosystems. <i>Scientific Reports</i> , 2018, 8, 11522.	3.3	16
76	Facilitating the elicitation of beliefs for use in Bayesian Belief modelling. <i>Environmental Modelling and Software</i> , 2019, 122, 104539.	4.5	16
77	Vesicular arbuscular mycorrhizal populations in stored topsoil. <i>Transactions of the British Mycological Society</i> , 1987, 89, 600-603.	0.6	15
78	Initial soil community drives heathland fungal community trajectory over multiple years through altered plant-soil interactions. <i>New Phytologist</i> , 2020, 225, 2140-2151.	7.3	15
79	Clinical Practice for Ecosystem Health: The Role of Ecological Restoration. <i>EcoHealth</i> , 2001, 7, 195-202.	0.2	14
80	Big Data and Ecosystem Research Programmes. <i>Advances in Ecological Research</i> , 2014, 51, 41-77.	2.7	14
81	A global baseline for ecosystem recovery. <i>Nature</i> , 2016, 532, 37-37.	27.8	14
82	Water quality and UK agriculture: challenges and opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1201.	6.5	14
83	A simple method for determination of fine resolution urban form patterns with distinct thermal properties using class-level landscape metrics. <i>Landscape Ecology</i> , 2021, 36, 1863-1876.	4.2	13
84	Earthworm community structure on five English golf courses. <i>Applied Soil Ecology</i> , 2008, 39, 336-341.	4.3	12
85	UK food and nutrition security during and after the COVID-19 pandemic. <i>Nutrition Bulletin</i> , 2021, 46, 88-97.	1.8	12
86	Using Bayesian Belief Networks to assess the influence of landscape connectivity on ecosystem service trade-offs and synergies in urban landscapes in the UK. <i>Landscape Ecology</i> , 2021, 36, 3345-3363.	4.2	11
87	The effect of microbial communities on soil hydrological processes: A microcosm study utilising simulated rainfall. <i>Geoderma</i> , 2007, 142, 11-17.	5.1	10
88	Size and phenotypic structure of microbial communities within soil profiles in relation to different playing areas on a UK golf course. <i>European Journal of Soil Science</i> , 2008, 59, 835-841.	3.9	10
89	Soil microbial community assembly precedes vegetation development after drastic techniques to mitigate effects of nitrogen deposition. <i>Biological Conservation</i> , 2017, 212, 476-483.	4.1	10
90	Restoration ecology and the role of soil biodiversity. , 2005, , 319-342.		9

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91	Simultaneous Preservation of Soil Structural Properties and Phospholipid Profiles: A Comparison of Three Drying Techniques. <i>Pedosphere</i> , 2008, 18, 284-287.	4.0	9
92	The evolution of Society for Ecological Restoration's principles and standardsâ€™ counterâ€™response to Gann et al.. <i>Restoration Ecology</i> , 2018, 26, 431-433.	2.9	9
93	Molecular characterisation of bacteria in a wetland used to remove ammoniacal-N from landfill leachate. <i>Waste Management and Research</i> , 2002, 20, 529-535.	3.9	8
94	Comment on Zhao et al. (2005) â€™Does ergosterol concentration provide a reliable estimate of soil fungal biomass?â€™. <i>Soil Biology and Biochemistry</i> , 2006, 38, 1500-1501.	8.8	8
95	Analysis of Bacterial Community Structure using 16S rDNA Analysis. <i>Anaerobe</i> , 2000, 6, 129-131.	2.1	7
96	Does soil biology hold the key to optimized slurry management? A manifesto for research. <i>Soil Use and Management</i> , 2011, 27, 464-469.	4.9	7
97	Engineering difference: Matrix design determines community composition in wastewater treatment systems. <i>Ecological Engineering</i> , 2012, 40, 183-188.	3.6	7
98	Operationalizing the ecosystems approach: Assessing the environmental impact of major infrastructure development. <i>Ecological Indicators</i> , 2017, 78, 75-84.	6.3	7
99	The effect of zeolite on the toxicity of lead to fungi. <i>Environmental Pollution</i> , 1988, 49, 235-241.	7.5	6
100	Characterisation and control of the biosolids storage environment: Implications for E. coli dynamics. <i>Science of the Total Environment</i> , 2021, 752, 141705.	8.0	5
101	Size and phenotypic structure of microbial communities within soil profiles in relation to play surfaces on a UK golf course. <i>European Journal of Soil Science</i> , 2008, 59, 1013-1013.	3.9	3
102	Converting agricultural lands into heathlands: the relevance of soil processes. , 2021, , 357-372.		3
103	The Impact of Land-Use Practices on Soil Microbes. , 2010, , 273-295.		3
104	Delivery of Soil Ecosystem Services: From Gaia to Genes. , 2012, , 98-110.		3
105	Time to invest in global resilience. <i>Nature</i> , 2020, 583, 30-30.	27.8	3
106	Effects of soilâ€™s surface microbial community phenotype upon physical and hydrological properties of an arable soil: a microcosm study. <i>European Journal of Soil Science</i> , 2010, 61, 493-503.	3.9	2
107	The absence or presence of a lytic coliphage affects the response of Escherichia coli to heat, chlorine, or UV exposure. <i>Folia Microbiologica</i> , 2018, 63, 599-606.	2.3	2
108	Soil fauna development during heathland restoration from arable land: Role of soil modification and material transplant. <i>Ecological Engineering</i> , 2022, 176, 106531.	3.6	2

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109	Gala theory: Darwin reinforces regulation. <i>Trends in Ecology and Evolution</i> , 1996, 11, 315-316.	8.7	0
110	Lysis Performance of Bacteriophages with Different Plaque Sizes and Comparison of Lysis Kinetics After Simultaneous and Sequential Phage Addition. <i>Phage</i> , 2020, 1, 149-157.	1.7	0
111	New jargon seeping slowly into biodiversity world. <i>Nature</i> , 2018, 562, 39-39.	27.8	0