

Graham K Macdonald

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5803345/graham-k-macdonald-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

4,220
citations

24
h-index

59
g-index

59
ext. papers

5,482
ext. citations

9.1
avg, IF

5.64
L-index

#	Paper	IF	Citations
46	Climate variation explains a third of global crop yield variability. <i>Nature Communications</i> , 2015 , 6, 5989	17.4	745
45	Agronomic phosphorus imbalances across the world's croplands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3086-91	11.5	487
44	Leverage points for improving global food security and the environment. <i>Science</i> , 2014 , 345, 325-8	33.3	420
43	An index-based framework for assessing patterns and trends in river fragmentation and flow regulation by global dams at multiple scales. <i>Environmental Research Letters</i> , 2015 , 10, 015001	6.2	301
42	Untangling the Environmentalist's Paradox: Why Is Human Well-being Increasing as Ecosystem Services Degrade?. <i>BioScience</i> , 2010 , 60, 576-589	5.7	287
41	The Global Food-Energy-Water Nexus. <i>Reviews of Geophysics</i> , 2018 , 56, 456-531	23.1	265
40	Greenhouse gas emissions intensity of global croplands. <i>Nature Climate Change</i> , 2017 , 7, 63-68	21.4	229
39	Social-ecological and technological factors moderate the value of urban nature. <i>Nature Sustainability</i> , 2019 , 2, 29-38	22.1	163
38	Rethinking Agricultural Trade Relationships in an Era of Globalization. <i>BioScience</i> , 2015 , 65, 275-289	5.7	142
37	Integrating legacy soil phosphorus into sustainable nutrient management strategies for future food, bioenergy and water security. <i>Nutrient Cycling in Agroecosystems</i> , 2016 , 104, 393-412	3.3	140
36	Realizing Resilient Food Systems. <i>BioScience</i> , 2016 , 66, 600-610	5.7	109
35	Environmental health impacts of feeding crops to farmed fish. <i>Environment International</i> , 2016 , 91, 201-214	14.9	84
34	A tradeoff frontier for global nitrogen use and cereal production. <i>Environmental Research Letters</i> , 2014 , 9, 054002	6.2	80
33	The influence of time, soil characteristics, and land-use history on soil phosphorus legacies: a global meta-analysis. <i>Global Change Biology</i> , 2012 , 18, 1904-1917	11.4	78
32	Progress towards sustainable intensification in China challenged by land-use change. <i>Nature Sustainability</i> , 2018 , 1, 304-313	22.1	71
31	Opinion: Big data has big potential for applications to climate change adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10729-32	11.5	62
30	Feeding the Corn Belt: Opportunities for phosphorus recycling in U.S. agriculture. <i>Science of the Total Environment</i> , 2016 , 542, 1117-26	10.2	58

29	Embodied phosphorus and the global connections of United States agriculture. <i>Environmental Research Letters</i> , 2012 , 7, 044024	6.2	48
28	Leveraging total factor productivity growth for sustainable and resilient farming. <i>Nature Sustainability</i> , 2019 , 2, 22-28	22.1	47
27	The persistent threat of emerging plant disease pandemics to global food security. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	41
26	Phosphorus Accumulation in Saint Lawrence River Watershed Soils: A Century-Long Perspective. <i>Ecosystems</i> , 2009 , 12, 621-635	3.9	40
25	Land-use legacies are important determinants of lake eutrophication in the anthropocene. <i>PLoS ONE</i> , 2011 , 6, e15913	3.7	36
24	Global Opportunities to Increase Agricultural Independence Through Phosphorus Recycling. <i>Earth's Future</i> , 2019 , 7, 370-383	7.9	35
23	Variability in ecosystem service measurement: a pollination service case study. <i>Frontiers in Ecology and the Environment</i> , 2013 , 11, 414-422	5.5	34
22	Guiding phosphorus stewardship for multiple ecosystem services. <i>Ecosystem Health and Sustainability</i> , 2016 , 2, e01251	3.7	23
21	Watershed Buffering of Legacy Phosphorus Pressure at a Regional Scale: A Comparison Across Space and Time. <i>Ecosystems</i> , 2019 , 22, 91-109	3.9	21
20	Eating on an interconnected planet. <i>Environmental Research Letters</i> , 2013 , 8, 021002	6.2	17
19	The Legacy of Agricultural Reclamation on Channel and Pool Networks of Bay of Fundy Salt Marshes. <i>Estuaries and Coasts</i> , 2010 , 33, 151-160	2.8	17
18	Flows in Agro-food Networks (FAN): An agent-based model to simulate local agricultural material flows. <i>Agricultural Systems</i> , 2020 , 180, 102718	6.1	15
17	Socio-environmental consideration of phosphorus flows in the urban sanitation chain of contrasting cities. <i>Regional Environmental Change</i> , 2018 , 18, 1387-1401	4.3	14
16	Phosphorus and land-use changes are significant drivers of cladoceran community composition and diversity: an analysis over spatial and temporal scales. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2010 , 67, 1262-1273	2.4	13
15	Rural-urban connectivity and agricultural land management across the Global South. <i>Global Environmental Change</i> , 2020 , 60, 101982	10.1	12
14	Quantifying the foodshed: a systematic review of urban food flow and local food self-sufficiency research. <i>Environmental Research Letters</i> , 2021 , 16, 023003	6.2	12
13	The influence of crop and chemical fertilizer combinations on greenhouse gas emissions: A partial life-cycle assessment of fertilizer production and use in China. <i>Resources, Conservation and Recycling</i> , 2021 , 168, 105303	11.9	11
12	Pathways to sustainable intensification through crop water management. <i>Environmental Research Letters</i> , 2016 , 11, 091001	6.2	10

11	Geospatial Land Price Data: A Public Good for Global Change Science and Policy. <i>BioScience</i> , 2018 , 68, 481-484	5.7	10
10	The U.S. consumer phosphorus footprint: where do nitrogen and phosphorus diverge?. <i>Environmental Research Letters</i> , 2020 , 15, 105022	6.2	9
9	Co-benefits and Trade-Offs From Agro-Food System Redesign for Circularity: A Case Study With the FAN Agent-Based Model. <i>Frontiers in Sustainable Food Systems</i> , 2020 , 4,	4.8	8
8	Extrinsic vs. Intrinsic Regimes Shifts in Shallow Lakes: Long-Term Response of Cyanobacterial Blooms to Historical Catchment Phosphorus Loading and Climate Warming. <i>Frontiers in Ecology and Evolution</i> , 2017 , 5,	3.7	6
7	Creating space for sustainability literacy: the case of student-centered symposia. <i>International Journal of Sustainability in Higher Education</i> , 2018 , 19, 839-855	3.9	5
6	Food, trade, and the environment. <i>Environmental Research Letters</i> , 2018 , 13, 100201	6.2	4
5	Reply to Comment on An index-based framework for assessing patterns and trends in river fragmentation and flow regulation by global dams at multiple scales. <i>Environmental Research Letters</i> , 2017 , 12, 038002	6.2	3
4	Growing pains: Small-scale farmer responses to an urban rooftop farming and online marketplace enterprise in Montréal, Canada. <i>Agriculture and Human Values</i> , 2021 , 38, 677-692	2.7	3
3	Provincial nitrogen footprints highlight variability in drivers of reactive nitrogen emissions in Canada. <i>Environmental Research Letters</i> , 2021 , 16, 095007	6.2	2
2	Food system resilience to phosphorus shortages on a telecoupled planet. <i>Nature Sustainability</i> , 2022 , 5, 114-122	22.1	2
1	Geographic versus institutional drivers of nitrogen footprints: a comparison of two urban universities. <i>Environmental Research Letters</i> , 2020 , 15, 045008	6.2	1