

Graham K Macdonald

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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	Food system resilience to phosphorus shortages on a telecoupled planet. <i>Nature Sustainability</i> , 2022 , 5, 114-122	22.1	2
45	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
44	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
43	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
42	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
41	Provincial nitrogen footprints highlight variability in drivers of reactive nitrogen emissions in Canada. <i>Environmental Research Letters</i> , 2021 , 16, 095007	6.2	2
40	Geographic versus institutional drivers of nitrogen footprints: a comparison of two urban universities. <i>Environmental Research Letters</i> , 2020 , 15, 045008	6.2	1
39	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
38	The U.S. consumer phosphorus footprint: where do nitrogen and phosphorus diverge?. <i>Environmental Research Letters</i> , 2020 , 15, 105022	6.2	9
37	Rural-urban connectivity and agricultural land management across the Global South. <i>Global Environmental Change</i> , 2020 , 60, 101982	10.1	12
36	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
35	Global Opportunities to Increase Agricultural Independence Through Phosphorus Recycling. <i>Earth's Future</i> , 2019 , 7, 370-383	7.9	35
34	Leveraging total factor productivity growth for sustainable and resilient farming. <i>Nature Sustainability</i> , 2019 , 2, 22-28	22.1	47
33	Social-ecological and technological factors moderate the value of urban nature. <i>Nature Sustainability</i> , 2019 , 2, 29-38	22.1	163
32	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
31	The Global Food-Energy-Water Nexus. <i>Reviews of Geophysics</i> , 2018 , 56, 456-531	23.1	265
30	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

29	Progress towards sustainable intensification in China challenged by land-use change. <i>Nature Sustainability</i> , 2018 , 1, 304-313	22.1	71
28	Food, trade, and the environment. <i>Environmental Research Letters</i> , 2018 , 13, 100201	6.2	4
27	Geospatial Land Price Data: A Public Good for Global Change Science and Policy. <i>BioScience</i> , 2018 , 68, 481-484	5.7	10
26	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
25	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
24	Greenhouse gas emissions intensity of global croplands. <i>Nature Climate Change</i> , 2017 , 7, 63-68	21.4	229
23	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
22	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
21	Pathways to sustainable intensification through crop water management. <i>Environmental Research Letters</i> , 2016 , 11, 091001	6.2	10
20	Environmental health impacts of feeding crops to farmed fish. <i>Environment International</i> , 2016 , 91, 201-14.9	14.9	84
19	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
18	Guiding phosphorus stewardship for multiple ecosystem services. <i>Ecosystem Health and Sustainability</i> , 2016 , 2, e01251	3.7	23
17	Realizing Resilient Food Systems. <i>BioScience</i> , 2016 , 66, 600-610	5.7	109
16	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
15	Rethinking Agricultural Trade Relationships in an Era of Globalization. <i>BioScience</i> , 2015 , 65, 275-289	5.7	142
14	Climate variation explains a third of global crop yield variability. <i>Nature Communications</i> , 2015 , 6, 5989	17.4	745
13	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
12	Leverage points for improving global food security and the environment. <i>Science</i> , 2014 , 345, 325-8	33.3	420

11	A tradeoff frontier for global nitrogen use and cereal production. <i>Environmental Research Letters</i> , 2014 , 9, 054002	6.2	80
10	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
9	Eating on an interconnected planet. <i>Environmental Research Letters</i> , 2013 , 8, 021002	6.2	17
8	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
7	Embodied phosphorus and the global connections of United States agriculture. <i>Environmental Research Letters</i> , 2012 , 7, 044024	6.2	48
6	Land-use legacies are important determinants of lake eutrophication in the anthropocene. <i>PLoS ONE</i> , 2011 , 6, e15913	3.7	36
5	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
4	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
3	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
2	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
1	Phosphorus Accumulation in Saint Lawrence River Watershed Soils: A Century-Long Perspective. <i>Ecosystems</i> , 2009 , 12, 621-635	3.9	40