

# David A Lobb

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

2,429  
citations

172443

29  
h-index

206102

48  
g-index

61  
all docs

61  
docs citations

61  
times ranked

2154  
citing authors

#	ARTICLE	IF	CITATIONS
1	The behavioural characteristics of sediment properties and their implications for sediment fingerprinting as an approach for identifying sediment sources in river basins. <i>Earth-Science Reviews</i> , 2013, 125, 24-42.	9.1	287
2	Conventional and Conservation Tillage: Influence on Seasonal Runoff, Sediment, and Nutrient Losses in the Canadian Prairies. <i>Journal of Environmental Quality</i> , 2010, 39, 964-980.	2.0	181
3	Fingerprinting and tracing the sources of soils and sediments: Earth and ocean science, geoarchaeological, forensic, and human health applications. <i>Earth-Science Reviews</i> , 2016, 162, 1-23.	9.1	174
4	Tillage translocation and tillage erosion in the complex upland landscapes of southwestern Ontario, Canada1Paper presented at International Symposium on Tillage Translocation and Tillage Erosion held in conjunction with the 52nd Annual Conference of the Soil and Water Conservation Society, Toronto, Canada, 24-25 July 1997. <i>Soil and Tillage Research</i> , 1999, 51, 189-209.	5.6	98
5	Investigating the role of connectivity and scale in assessing the sources of sediment in an agricultural watershed in the Canadian prairies using sediment source fingerprinting. <i>Journal of Soils and Sediments</i> , 2013, 13, 1676-1691.	3.0	89
6	The role of soil surface properties on the particle size and carbon selectivity of interrill erosion in agricultural landscapes. <i>Catena</i> , 2017, 153, 194-206.	5.0	89
7	Tillage and water erosion on different landscapes in the northern North American Great Plains evaluated using 137Cs technique and soil erosion models. <i>Catena</i> , 2007, 70, 493-505.	5.0	78
8	Sources of variability in fatty acid (FA) biomarkers in the application of compound-specific stable isotopes (CSSIs) to soil and sediment fingerprinting and tracing: A review. <i>Science of the Total Environment</i> , 2016, 565, 8-27.	8.0	78
9	Soil <sup>13</sup> C erosion and burial in cropland. <i>Global Change Biology</i> , 2012, 18, 1441-1452.	9.5	74
10	Global Prospects Rooted in Soil Science. <i>Soil Science Society of America Journal</i> , 2011, 75, 1-8.	2.2	67
11	Critical Factors Affecting Field-Scale Losses of Nitrogen and Phosphorus in Spring Snowmelt Runoff in the Canadian Prairies. <i>Journal of Environmental Quality</i> , 2013, 42, 484-496.	2.0	67
12	Tillage translocation and tillage erosion in cereal-based production in Manitoba, Canada. <i>Soil and Tillage Research</i> , 2007, 94, 164-182.	5.6	64
13	Lidar DEM error analyses and topographic depression identification in a hummocky landscape in the prairie region of Canada. <i>Geomorphology</i> , 2011, 129, 263-275.	2.6	63
14	Nutrient and Sediment Losses in Snowmelt Runoff from Perennial Forage and Annual Cropland in the Canadian Prairies. <i>Journal of Environmental Quality</i> , 2014, 43, 1644-1655.	2.0	58
15	Modelling tillage erosion in the topographically complex landscapes of southwestern Ontario, Canada1Paper presented at International Symposium on Tillage Translocation and Tillage Erosion held in conjunction with the 52nd Annual Conference of the Soil and Water Conservation Society, Toronto, Canada, 24-25 July, 1997. <i>Soil and Tillage Research</i> , 1999, 51, 261-277.	5.6	57
16	A deconvolutional Bayesian mixing model approach for river basin sediment source apportionment. <i>Scientific Reports</i> , 2018, 8, 13073.	3.3	57
17	Soil and water management: opportunities to mitigate nutrient losses to surface waters in the Northern Great Plains. <i>Environmental Reviews</i> , 2019, 27, 447-477.	4.5	50
18	Pattern of greenhouse gas emission from a Prairie Pothole agricultural landscape in Manitoba, Canada. <i>Canadian Journal of Soil Science</i> , 2010, 90, 243-256.	1.2	46

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19	The Effects of Multiple Beneficial Management Practices on Hydrology and Nutrient Losses in a Small Watershed in the Canadian Prairies. <i>Journal of Environmental Quality</i> , 2011, 40, 1627-1642.	2.0	44
20	Fallout radionuclide-based techniques for assessing the impact of soil conservation measures on erosion control and soil quality: an overview of the main lessons learnt under an FAO/IAEA Coordinated Research Project. <i>Journal of Environmental Radioactivity</i> , 2012, 107, 78-85.	1.7	44
21	Phosphorus dynamics in vegetated buffer strips in cold climates: a review. <i>Environmental Reviews</i> , 2018, 26, 255-272.	4.5	43
22	Selecting Color-based Tracers and Classifying Sediment Sources in the Assessment of Sediment Dynamics Using Sediment Source Fingerprinting. <i>Journal of Environmental Quality</i> , 2015, 44, 1605-1616.	2.0	40
23	Variations in soil properties and herbicide sorption coefficients with depth in relation to PRZM (pesticide root zone model) calculations. <i>Geoderma</i> , 2009, 150, 267-277.	5.1	39
24	Importance of information on tillage practices in the modelling of environmental processes and in the use of environmental indicators. <i>Journal of Environmental Management</i> , 2007, 82, 377-387.	7.8	37
25	Using repeated measurements of <sup>137</sup> Cs and modelling to identify spatial patterns of tillage and water erosion within potato production in Atlantic Canada. <i>Geoderma</i> , 2009, 153, 104-118.	5.1	37
26	Assessment of particle size and organic matter correction factors in sediment source fingerprinting investigations: An example of two contrasting watersheds in Canada. <i>Geoderma</i> , 2018, 325, 195-207.	5.1	36
27	Conversion of Conservation Tillage to Rotational Tillage to Reduce Phosphorus Losses during Snowmelt Runoff in the Canadian Prairies. <i>Journal of Environmental Quality</i> , 2014, 43, 1679-1689.	2.0	35
28	The role of gravel channel beds on the particle size and organic matter selectivity of transported fine-grained sediment: implications for sediment fingerprinting and biogeochemical flux research. <i>Journal of Soils and Sediments</i> , 2015, 15, 2174-2188.	3.0	33
29	Modelling tillage translocation using step, linear-plateau and exponential functions1Paper presented at International Symposium on Tillage Translocation and Tillage Erosion held in conjunction with the 52nd Annual Conference of the Soil and Water Conservation Society, Toronto, Canada. 24-25 July, 1997.1. <i>Soil and Tillage Research</i> , 1999, 51, 317-330.	5.6	31
30	Comparing the use of the traditional and repeated-sampling-approach of the <sup>137</sup> Cs technique in soil erosion estimation. <i>Geoderma</i> , 2011, 160, 324-335.	5.1	31
31	Modeling Tillage-induced Redistribution of Soil Mass and Its Constituents within Different Landscapes. <i>Soil Science Society of America Journal</i> , 2008, 72, 167-179.	2.2	29
32	Herbicide Sorption Coefficients in Relation to Soil Properties and Terrain Attributes on a Cultivated Prairie. <i>Journal of Environmental Quality</i> , 2008, 37, 1201-1208.	2.0	28
33	Selecting and Applying Cesium-137 Conversion Models to Estimate Soil Erosion Rates in Cultivated Fields. <i>Journal of Environmental Quality</i> , 2010, 39, 204-219.	2.0	23
34	Modeling tillage-induced morphological features in cultivated landscapes. <i>Soil and Tillage Research</i> , 2009, 103, 33-45.	5.6	22
35	Effectiveness of Vegetated Buffer Strips in Controlling Legacy Phosphorus Exports from Agricultural Land. <i>Journal of Environmental Quality</i> , 2019, 48, 314-321.	2.0	21
36	Soil Movement resulting from Sweep Type Liquid Manure Injection Tools. <i>Biosystems Engineering</i> , 2005, 91, 379-392.	4.3	20

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37	Phosphorus runoff from Canadian agricultural land: A cross-region synthesis of edge-of-field results. <i>Agricultural Water Management</i> , 2021, 255, 107030.	5.6	18
38	Changes in runoff chemistry and soil fertility after multiple years of cattle winter bale feeding on annual cropland on the Canadian prairies. <i>Agriculture, Ecosystems and Environment</i> , 2017, 240, 1-13.	5.3	16
39	Comparison of sampling designs for sediment source fingerprinting in an agricultural watershed in Atlantic Canada. <i>Journal of Soils and Sediments</i> , 2019, 19, 3302-3318.	3.0	16
40	Meteoric Beryllium-10 as a Tracer of Erosion Due to Postsettlement Land Use in West-Central Minnesota, USA. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 874-901.	2.8	15
41	Uncertainties in vegetated buffer strip function in controlling phosphorus export from agricultural land in the Canadian prairies. <i>Environmental Science and Pollution Research</i> , 2017, 24, 18372-18382.	5.3	14
42	Alternative transformations of nitrous oxide soil flux data to normal distributions. <i>Canadian Journal of Soil Science</i> , 2014, 94, 105-108.	1.2	13
43	An Overview of Crop and Crop Residue Management Impacts on Crop Water Use and Runoff in the Canadian Prairies. <i>Water (Switzerland)</i> , 2021, 13, 2929.	2.7	9
44	Using colour, shape and radionuclide fingerprints to identify sources of sediment in an agricultural watershed in Atlantic Canada. <i>Canadian Water Resources Journal</i> , 2018, 43, 347-365.	1.2	8
45	Can Restoration of Freshwater Mineral Soil Wetlands Deliver Nature-Based Climate Solutions to Agricultural Landscapes?. <i>Frontiers in Ecology and Evolution</i> , 0, 10, .	2.2	7
46	The Canon of Potato Science: 30. Tillage Erosion within Potato Production – Soil Tillage, Earthing Up and Planting. <i>Potato Research</i> , 2007, 50, 327-330.	2.7	6
47	Solute transport in a hummocky landscape: I. Two-dimensional redistribution of bromide. <i>Canadian Journal of Soil Science</i> , 2012, 92, 609-629.	1.2	6
48	Sources and accumulation of sediment and particulate organic carbon in a subarctic fjord estuary: 210Pb, 137Cs, and $\delta^{13}C$ records from Lake Melville, Labrador. <i>Canadian Journal of Earth Sciences</i> , 2017, 54, 993-1006.	1.3	6
49	Evaluation of high-flow rate continuous-flow centrifugation and filtration devices for sampling and concentrating fine-grained suspended sediment. <i>Hydrological Processes</i> , 2020, 34, 3882-3893.	2.6	4
50	Characterization of soil surface properties following disturbance of a clay soil in southern Manitoba. <i>Soil and Tillage Research</i> , 2008, 100, 99-107.	5.6	3
51	Determination of sediment sources in a mixed watershed within the Appalachian-St. Lawrence Lowland Regions of southern Quebec using sediment fingerprinting. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 603.	2.7	3
52	Seasonal Changes in Phosphorus in Soils and Vegetation of Vegetated Filter Strips in Cold Climate Agricultural Systems. <i>Agriculture (Switzerland)</i> , 2022, 12, 233.	3.1	3
53	Probability distribution functions for short-term daily nitrous oxide fluxes in a prairie pothole agricultural landscape in western Canada. <i>Canadian Journal of Soil Science</i> , 2011, 91, 303-307.	1.2	2
54	Uncertainty and Sensitivity Analyses of the Modified Wind Erosion Equation for Application in Canada. <i>Land Degradation and Development</i> , 2017, 28, 2298-2307.	3.9	2

#	ARTICLE	IF	CITATIONS
55	Influence of climate, topography, and soil type on soil extractable phosphorus in croplands of northern glacial-derived landscapes. <i>Journal of Environmental Quality</i> , 2022, 51, 731-744.	2.0	2
56	Assessment of the effects of land rolling on wind erosion and crop growth in soybean production in the Red River Valley, Canada. <i>Soil and Tillage Research</i> , 2022, 222, 105439.	5.6	2
57	Extracting topographic characteristics of landforms typical of Canadian agricultural landscapes for agri-environmental modeling. I. Methodology. <i>Canadian Journal of Soil Science</i> , 2011, 91, 251-266.	1.2	1
58	A few twists and turns on the road to soil health. <i>Crops &amp; Soils</i> , 2015, 48, 31-33.	0.2	1
59	A plot study on the effects of water eroded channels on tillage translocation. <i>Soil and Tillage Research</i> , 2021, 213, 105118.	5.6	1
60	Inferring soil water movement and streamflow response in Canadian Prairie riparian areas using hydrologic state variables. <i>Hydrological Processes</i> , 2017, 31, 3765-3782.	2.6	0