

Rich McDowell

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9053715/rich-mcdowell-publications-by-year.pdf>

Version: 2024-04-23

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.

243
papers

7,813
citations

46
h-index

77
g-index

256
ext. papers

8,826
ext. citations

3.7
avg, IF

6.35
L-index

#	Paper	IF	Citations
243	Assessing the leaching of cadmium in an irrigated and grazed pasture soil. <i>Environmental Pollution</i> , 2022 , 292, 118430	9.3	1
242	Do soil cadmium concentrations decline after phosphate fertiliser application is stopped: A comparison of long-term pasture trials in New Zealand?. <i>Science of the Total Environment</i> , 2022 , 804, 150047	10.2	1
241	Towards implementation of robust monitoring technologies alongside freshwater improvement policy in Aotearoa New Zealand. <i>Environmental Science and Policy</i> , 2022 , 132, 1-12	6.2	1
240	Sediment phosphorus buffering in streams at baseflow: A meta-analysis. <i>Journal of Environmental Quality</i> , 2021 , 50, 287-311	3.4	8
239	National-scale implementation of mandatory freshwater farm plans: a mechanism to deliver water quality improvement in productive catchments in New Zealand?. <i>Nutrient Cycling in Agroecosystems</i> , 2021 , 120, 121	3.3	1
238	Quantifying contaminant losses to water from pastoral landuses in New Zealand I. Development of a spatial framework for assessing losses at a farm scale. <i>New Zealand Journal of Agricultural Research</i> , 2021 , 64, 344-364	1.9	2
237	Reductive dissolution of phosphorus associated with iron-oxides during saturation in agricultural soil profiles. <i>Journal of Environmental Quality</i> , 2021 , 50, 1207-1219	3.4	0
236	Phosphorus transport in subsurface flow from a stony soil under irrigated and non-irrigated lucerne. <i>New Zealand Journal of Agricultural Research</i> , 2021 , 64, 429-443	1.9	1
235	Evidence for the leaching of dissolved organic phosphorus to depth. <i>Science of the Total Environment</i> , 2021 , 755, 142392	10.2	7
234	Quantifying contaminant losses to water from pastoral land uses in New Zealand III. What could be achieved by 2035?. <i>New Zealand Journal of Agricultural Research</i> , 2021 , 64, 390-410	1.9	5
233	Plant Species Rather than Elevated Atmospheric CO2 Impact Rhizosphere Properties and Phosphorus Fractions in a Phosphorus-Deficient Soil. <i>Journal of Soil Science and Plant Nutrition</i> , 2021 , 21, 622-636	3.2	1
232	Seventy years of data from the world's longest grazed and irrigated pasture trials. <i>Scientific Data</i> , 2021 , 8, 53	8.2	4
231	Reflecting on the journey of environmental farm planning in New Zealand. <i>New Zealand Journal of Agricultural Research</i> , 2021 , 64, 463-470	1.9	4
230	The implications of lag times between nitrate leaching losses and riverine loads for water quality policy. <i>Scientific Reports</i> , 2021 , 11, 16450	4.9	4
229	Potential phosphorus losses from grassland soils irrigated with dairy factory wastewater. <i>Nutrient Cycling in Agroecosystems</i> , 2021 , 121, 69-84	3.3	1
228	Developing an indicator of productive potential to assess land use suitability in New Zealand. <i>Environmental and Sustainability Indicators</i> , 2021 , 11, 100128	3.5	1
227	Estimating and modelling the risk of redox-sensitive phosphorus loss from saturated soils using different soil tests. <i>Geoderma</i> , 2021 , 398, 115094	6.7	3

226	Quantifying contaminant losses to water from pastoral landuses in New Zealand II. The effects of some farm mitigation actions over the past two decades. <i>New Zealand Journal of Agricultural Research</i> , 2021 , 64, 365-389	1.9	8
225	Microbiome innovations for a sustainable future. <i>Nature Microbiology</i> , 2021 , 6, 138-142	26.6	18
224	Implications of water quality policy on land use: a case study of the approach in New Zealand. <i>Marine and Freshwater Research</i> , 2021 , 72, 451	2.2	2
223	Global database of diffuse riverine nitrogen and phosphorus loads and yields. <i>Geoscience Data Journal</i> , 2020 ,	2.5	3
222	Changes in soil cadmium concentrations with time following cessation of phosphorus fertilizer inputs. <i>Journal of Environmental Quality</i> , 2020 , 49, 1054-1061	3.4	3
221	Total soil cadmium concentrations in the Winchmore long-term phosphorus fertiliser trial are still increasing. <i>New Zealand Journal of Agricultural Research</i> , 2020 , 1-8	1.9	5
220	Likely controls on dissolved reactive phosphorus concentrations in baseflow of an agricultural stream. <i>Journal of Soils and Sediments</i> , 2020 , 20, 3254-3265	3.4	7
219	Global mapping of freshwater nutrient enrichment and periphyton growth potential. <i>Scientific Reports</i> , 2020 , 10, 3568	4.9	25
218	Mitigation of phosphorus, sediment and Escherichia coli losses in runoff from a dairy farm roadway. <i>Irish Journal of Agricultural and Food Research</i> , 2020 , 59,	1.1	2
217	The Ability to Reduce Soil Legacy Phosphorus at a Country Scale. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	17
216	Role of Organic Anions and Phosphatase Enzymes in Phosphorus Acquisition in the Rhizospheres of Legumes and Grasses Grown in a Low Phosphorus Pasture Soil. <i>Plants</i> , 2020 , 9,	4.5	12
215	The mitigation of phosphorus losses from a water-repellent soil used for grazed dairy farming. <i>Geoderma</i> , 2020 , 362, 114125	6.7	3
214	Long-term atmospheric carbon dioxide enrichment decreases soil phosphorus availability in a grazed temperate pasture. <i>Geoderma</i> , 2020 , 378, 114621	6.7	5
213	The biotic contribution to the benthic stream sediment phosphorus buffer. <i>Biogeochemistry</i> , 2020 , 151, 63-79	3.8	4
212	Dynamics of phosphorus exchange between sediment and water in a gravel-bed river. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2020 , 54, 658-678	1.3	4
211	A Global Perspective on Phosphorus Management Decision Support in Agriculture: Lessons Learned and Future Directions. <i>Journal of Environmental Quality</i> , 2019 , 48, 1218-1233	3.4	10
210	The efficacy of good practice to prevent long-term leaching losses of phosphorus from an irrigated dairy farm. <i>Agriculture, Ecosystems and Environment</i> , 2019 , 273, 86-94	5.7	13
209	Development of a model using matter element, AHP and GIS techniques to assess the suitability of land for agriculture. <i>Geoderma</i> , 2019 , 352, 80-95	6.7	54

208	The influence of a flood event on the potential sediment control of baseflow phosphorus concentrations in an intensive agricultural catchment. <i>Journal of Soils and Sediments</i> , 2019 , 19, 429-438	3.4	7
207	The potential for potassium chloride fertiliser applications to leach cadmium from a grazed pasture soil. <i>Geoderma</i> , 2019 , 353, 293-296	6.7	3
206	Quantifying the Extent of Anthropogenic Eutrophication of Lakes at a National Scale in New Zealand. <i>Environmental Science & Technology</i> , 2019 , 53, 9439-9452	10.3	15
205	Why are median phosphorus concentrations improving in New Zealand streams and rivers?. <i>Journal of the Royal Society of New Zealand</i> , 2019 , 49, 143-170	2	14
204	Direct Exports of Phosphorus from Fertilizers Applied to Grazed Pastures. <i>Journal of Environmental Quality</i> , 2019 , 48, 1380-1396	3.4	11
203	Transforming soil phosphorus fertility management strategies to support the delivery of multiple ecosystem services from agricultural systems. <i>Science of the Total Environment</i> , 2019 , 649, 90-98	10.2	34
202	Integration of ANP and Fuzzy set techniques for land suitability assessment based on remote sensing and GIS for irrigated maize cultivation. <i>Archives of Agronomy and Soil Science</i> , 2019 , 65, 1063-1079	2	11
201	Transforming phosphorus use on the island of Ireland: A model for a sustainable system. <i>Science of the Total Environment</i> , 2019 , 656, 852-861	10.2	5
200	The error in stream sediment phosphorus fractionation and sorption properties effected by drying pretreatments. <i>Journal of Soils and Sediments</i> , 2019 , 19, 1587-1597	3.4	12
199	The land use suitability concept: Introduction and an application of the concept to inform sustainable productivity within environmental constraints. <i>Ecological Indicators</i> , 2018 , 91, 212-219	5.8	38
198	A review of regulations and guidelines related to winter manure application. <i>Ambio</i> , 2018 , 47, 657-670	6.5	30
197	Anthropogenic increases of catchment nitrogen and phosphorus loads in New Zealand. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2018 , 52, 336-361	1.3	25
196	Impacts of long-term plant biomass management on soil phosphorus under temperate grassland. <i>Plant and Soil</i> , 2018 , 427, 163-174	4.2	10
195	Agricultural Catchment Restoration 2018 , 107-127		1
194	Managing Diffuse Phosphorus at the Source versus at the Sink. <i>Environmental Science & Technology</i> , 2018 , 52, 11995-12009	10.3	59
193	A strategy for optimizing catchment management actions to stressor-response relationships in freshwaters. <i>Ecosphere</i> , 2018 , 9, e02482	3.1	10
192	When experts disagree: the need to rethink indicator selection for assessing sustainability of agriculture. <i>Environment, Development and Sustainability</i> , 2017 , 19, 1327-1342	4.5	60
191	The effect of soil moisture extremes on the pathways and forms of phosphorus lost in runoff from two contrasting soil types. <i>Soil Research</i> , 2017 , 55, 19	1.8	9

190	Estimation of Catchment Nutrient Loads in New Zealand Using Monthly Water Quality Monitoring Data. <i>Journal of the American Water Resources Association</i> , 2017 , 53, 158-178	2.1	16
189	Temperature and Nitrogen Effects on Phosphorus Uptake by Agricultural Stream-Bed Sediments. <i>Journal of Environmental Quality</i> , 2017 , 46, 295-301	3.4	10
188	Assessing the Yield and Load of Contaminants with Stream Order: Would Policy Requiring Livestock to Be Fenced Out of High-Order Streams Decrease Catchment Contaminant Loads?. <i>Journal of Environmental Quality</i> , 2017 , 46, 1038-1047	3.4	13
187	Effects of Lime and Organic Amendments Derived from Varied Source Materials on Cadmium Uptake by Potato. <i>Journal of Environmental Quality</i> , 2017 , 46, 836-844	3.4	15
186	Does variable rate irrigation decrease nutrient leaching losses from grazed dairy farming?. <i>Soil Use and Management</i> , 2017 , 33, 530-537	3.1	14
185	Balancing water-quality threats from nutrients and production in Australian and New Zealand dairy farms under low profit margins. <i>Animal Production Science</i> , 2017 , 57, 1419	1.4	14
184	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	14 ⁰
183	The use of alum to decrease phosphorus loss from dairy farm laneways in southern New Zealand. <i>Soil Use and Management</i> , 2016 , 32, 69-71	3.1	4
182	Optimizing land use for the delivery of catchment ecosystem services. <i>Frontiers in Ecology and the Environment</i> , 2016 , 14, 325-332	5.5	44
181	Variation in environmentally- and agronomically-significant soil phosphorus concentrations with time since stopping the application of phosphorus fertilisers. <i>Geoderma</i> , 2016 , 280, 67-72	6.7	22
180	Cadmium losses from a New Zealand organic soil. <i>New Zealand Journal of Agricultural Research</i> , 2016 , 59, 185-193	1.9	6
179	Global change pressures on soils from land use and management. <i>Global Change Biology</i> , 2016 , 22, 1008-1014	2.4	40 ³
178	Cadmium accumulation by forage species used in New Zealand livestock grazing systems. <i>Geoderma Regional</i> , 2016 , 7, 11-18	2.7	12
177	Selection of a legume to use in a low phosphorus loss pasture. <i>New Zealand Journal of Agricultural Research</i> , 2016 , 59, 106-112	1.9	1
176	Municipal composts reduce the transfer of Cd from soil to vegetables. <i>Environmental Pollution</i> , 2016 , 213, 8-15	9.3	5 ⁰
175	Using the Provenance of Sediment and Bioavailable Phosphorus to Help Mitigate Water Quality Impact in an Agricultural Catchment. <i>Journal of Environmental Quality</i> , 2016 , 45, 1276-85	3.4	7
174	Guiding phosphorus stewardship for multiple ecosystem services. <i>Ecosystem Health and Sustainability</i> , 2016 , 2, e01251	3.7	23
173	A review of the policies and implementation of practices to decrease water quality impairment by phosphorus in New Zealand, the UK, and the US. <i>Nutrient Cycling in Agroecosystems</i> , 2016 , 104, 289-305	3.3	6 ⁰

172	The effect of irrigation and urine application on phosphorus losses to subsurface flow from a stony soil. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 233, 425-431	5.7	9
171	Can phosphorus fertilizers sparingly soluble in water decrease phosphorus leaching loss from an acid peat soil?. <i>Soil Use and Management</i> , 2016 , 32, 322-328	3.1	3
170	Treatment of pasture topsoil with alum to decrease phosphorus losses in subsurface drainage. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 207, 178-182	5.7	6
169	Speciation and distribution of organic phosphorus in river sediments: a national survey. <i>Journal of Soils and Sediments</i> , 2015 , 15, 2369-2379	3.4	11
168	Effects of cultivation on soil and soil water under different fertiliser regimes. <i>Soil and Tillage Research</i> , 2015 , 145, 37-46	6.5	9
167	Chemistry, Cycling, and Potential Movement of Inorganic Phosphorus in Soils. <i>Agronomy</i> , 2015 , 51-86	0.8	19
166	Extreme phosphorus losses in drainage from grazed dairy pastures on marginal land. <i>Journal of Environmental Quality</i> , 2015 , 44, 545-51	3.4	21
165	Relationship between Sediment Chemistry, Equilibrium Phosphorus Concentrations, and Phosphorus Concentrations at Baseflow in Rivers of the New Zealand National River Water Quality Network. <i>Journal of Environmental Quality</i> , 2015 , 44, 921-9	3.4	26
164	A National Assessment of the Potential Linkage between Soil, and Surface and Groundwater Concentrations of Phosphorus. <i>Journal of the American Water Resources Association</i> , 2015 , 51, 992-1002	2.1	38
163	Biogeochemical cycles and biodiversity as key drivers of ecosystem services provided by soils. <i>Soil</i> , 2015 , 1, 665-685	5.8	188
162	Transport of phosphorus in an alluvial gravel aquifer. <i>New Zealand Journal of Agricultural Research</i> , 2015 , 58, 490-501	1.9	3
161	Potential phosphorus losses from organic and podzol soils: prediction and the influence of soil physico-chemical properties and management. <i>New Zealand Journal of Agricultural Research</i> , 2015 , 58, 170-180	1.9	11
160	Can the application of rare earth elements improve yield and decrease the uptake of cadmium in ryegrass-dominated pastures?. <i>Soil Research</i> , 2015 , 53, 826	1.8	2
159	Estimating the mitigation of anthropogenic loss of phosphorus in New Zealand grassland catchments. <i>Science of the Total Environment</i> , 2014 , 468-469, 1178-86	10.2	17
158	Manipulation of fertiliser regimes in phosphorus enriched soils can reduce phosphorus loss to leachate through an increase in pasture and microbial biomass production. <i>Agriculture, Ecosystems and Environment</i> , 2014 , 185, 65-76	5.7	21
157	Phosphorus dynamics in sediments of a eutrophic lake derived from ³¹ P nuclear magnetic resonance spectroscopy. <i>Marine and Freshwater Research</i> , 2014 , 65, 70	2.2	10
156	Bayesian network for point and diffuse source phosphorus transfer from dairy pastures in South otago, new zealand. <i>Journal of Environmental Quality</i> , 2014 , 43, 1370-80	3.4	3
155	A cost-effective management practice to decrease phosphorus loss from dairy farms. <i>Journal of Environmental Quality</i> , 2014 , 43, 2044-52	3.4	10

154	Water: Water Quality and Challenges from Agriculture 2014 , 425-436		3
153	The use of alum to decrease phosphorus losses in runoff from grassland soils. <i>Journal of Environmental Quality</i> , 2014 , 43, 1635-43	3.4	8
152	Using organic phosphorus to sustain pasture productivity: A perspective. <i>Geoderma</i> , 2014 , 221-222, 11-10.7		85
151	Is tillage an effective method to decrease phosphorus loss from phosphorus enriched pastoral soils?. <i>Soil and Tillage Research</i> , 2014 , 135, 1-8	6.5	13
150	Contrasting the spatial management of nitrogen and phosphorus for improved water quality: Modelling studies in New Zealand and France. <i>European Journal of Agronomy</i> , 2014 , 57, 52-61	5	15
149	Natural background and anthropogenic contributions of cadmium to New Zealand soils. <i>Agriculture, Ecosystems and Environment</i> , 2013 , 165, 80-87	5.7	35
148	Managing pollutant inputs from pastoral dairy farming to maintain water quality of a lake in a high-rainfall catchment. <i>Marine and Freshwater Research</i> , 2013 , 64, 447	2.2	11
147	Changes in soil phosphorus availability and potential phosphorus loss following cessation of phosphorus fertiliser inputs. <i>Soil Research</i> , 2013 , 51, 427	1.8	13
146	Nutrients and eutrophication: introduction. <i>Marine and Freshwater Research</i> , 2013 , 64, iii	2.2	17
145	Assessment, modelling and management of land use and water quality in the upper Taieri River catchment. <i>New Zealand Journal of Agricultural Research</i> , 2013 , 56, 261-278	1.9	5
144	Nitrate and phosphorus leaching in New Zealand: a national perspective. <i>New Zealand Journal of Agricultural Research</i> , 2013 , 56, 49-59	1.9	43
143	Establishment of reference or baseline conditions of chemical indicators in New Zealand streams and rivers relative to present conditions. <i>Marine and Freshwater Research</i> , 2013 , 64, 387	2.2	36
142	Minimising phosphorus losses from the soil matrix. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 860-5	11.4	22
141	A review of the cost-effectiveness and suitability of mitigation strategies to prevent phosphorus loss from dairy farms in New Zealand and Australia. <i>Journal of Environmental Quality</i> , 2012 , 41, 680-93	3.4	65
140	Predicting the changes in environmentally and agronomically significant phosphorus forms following the cessation of phosphorus fertilizer applications to grassland. <i>Soil Use and Management</i> , 2012 , 28, 135-147	3.1	46
139	Phosphorus and the Winchmore trials: review and lessons learnt. <i>New Zealand Journal of Agricultural Research</i> , 2012 , 55, 119-132	1.9	30
138	Bibliography of research from the Winchmore Irrigation Research Station, Canterbury, New Zealand: 1951 to 2011. <i>New Zealand Journal of Agricultural Research</i> , 2012 , 55, 181-206	1.9	1
137	The rate of accumulation of cadmium and uranium in a long-term grazed pasture: implications for soil quality. <i>New Zealand Journal of Agricultural Research</i> , 2012 , 55, 133-146	1.9	23

136	Phosphorus source areas in a dairy catchment in Otago, New Zealand. <i>Soil Research</i> , 2012 , 50, 145	1.8	9
135	Dissolved Organic Matter: Biogeochemistry, Dynamics, and Environmental Significance in Soils. <i>Advances in Agronomy</i> , 2011 , 110, 1-75	7.7	274
134	Nutrient losses associated with irrigation, intensification and management of land use: A study of large scale irrigation in North Otago, New Zealand. <i>Agricultural Water Management</i> , 2011 , 98, 877-885	5.9	23
133	Soil controls of phosphorus in runoff: Management barriers and opportunities. <i>Canadian Journal of Soil Science</i> , 2011 , 91, 329-338	1.4	126
132	Is mechanical soil aeration a strategy to alleviate soil compaction and decrease phosphorus and suspended sediment losses from irrigated and rain-fed cattle-grazed pastures?. <i>Soil Use and Management</i> , 2011 , 27, no-no	3.1	3
131	Effects of cattle, sheep and deer grazing on soil physical quality and losses of phosphorus and suspended sediment losses in surface runoff. <i>Agriculture, Ecosystems and Environment</i> , 2011 , 140, 264-272	5.7	61
130	State and potential management to improve water quality in an agricultural catchment relative to a natural baseline. <i>Agriculture, Ecosystems and Environment</i> , 2011 , 144, 188-200	5.7	16
129	Phosphorus in pasture plants: potential implications for phosphorus loss in surface runoff. <i>Plant and Soil</i> , 2011 , 345, 23-35	4.2	15
128	Managing agricultural phosphorus for water quality protection: principles for progress. <i>Plant and Soil</i> , 2011 , 349, 169-182	4.2	174
127	Land Application of Manure Can Influence Earthworm Activity and Soil Phosphorus Distribution. <i>Communications in Soil Science and Plant Analysis</i> , 2011 , 42, 194-207	1.5	10
126	Potential phosphorus and sediment loads from sources within a dairy farmed catchment. <i>Soil Use and Management</i> , 2010 , 26, 44-52	3.1	14
125	Phosphorus fertilizer form affects phosphorus loss to waterways: a paired catchment study. <i>Soil Use and Management</i> , 2010 , 26, 365-373	3.1	21
124	Effects of cattle treading and soil moisture on phosphorus and sediment losses in surface runoff from pasture. <i>New Zealand Journal of Agricultural Research</i> , 2010 , 53, 365-376	1.9	10
123	Evaluation of two management options to improve the water quality of Lake Brunner, New Zealand. <i>New Zealand Journal of Agricultural Research</i> , 2010 , 53, 59-69	1.9	11
122	Do aggregation, treading, and dung deposition affect phosphorus and suspended sediment losses in surface runoff?. <i>Soil Research</i> , 2010 , 48, 705	1.8	10
121	Is Cadmium Loss in Surface Runoff Significant for Soil and Surface Water Quality: A Study of Flood-Irrigated Pastures?. <i>Water, Air, and Soil Pollution</i> , 2010 , 209, 133-142	2.6	32
120	Identifying and linking source areas of flow and P transport in dairy-grazed headwater catchments, North Island, New Zealand. <i>Hydrological Processes</i> , 2010 , 24, 3689-3705	3.3	11
119	Approaches for quantifying and managing diffuse phosphorus exports at the farm/small catchment scale. <i>Journal of Environmental Quality</i> , 2009 , 38, 1968-80	3.4	29

118	Nitrogen and phosphorus in New Zealand streams and rivers: Control and impact of eutrophication and the influence of land management. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2009 , 43, 985-995	1.3	57
117	Maintaining good water and soil quality in catchments containing deer farms. <i>International Journal of River Basin Management</i> , 2009 , 7, 187-195	1.7	6
116	Identifying critical source areas for water quality: 1. Mapping and validating transport areas in three headwater catchments in Otago, New Zealand. <i>Journal of Hydrology</i> , 2009 , 379, 54-67	6	36
115	Identifying critical source areas for water quality: 2. Validating the approach for phosphorus and sediment losses in grazed headwater catchments. <i>Journal of Hydrology</i> , 2009 , 379, 68-80	6	40
114	Management options to decrease phosphorus and sediment losses from irrigated cropland grazed by cattle and sheep. <i>Soil Use and Management</i> , 2009 , 25, 224-233	3.1	27
113	Atmospheric deposition contributes little nutrient and sediment to stream flow from an agricultural watershed. <i>Agriculture, Ecosystems and Environment</i> , 2009 , 134, 19-23	5.7	5
112	The use of safe wallows to improve water quality in deer farmed catchments. <i>New Zealand Journal of Agricultural Research</i> , 2009 , 52, 81-90	1.9	9
111	Irrigation and soil physical quality: An investigation at a long-term irrigation site. <i>New Zealand Journal of Agricultural Research</i> , 2009 , 52, 113-121	1.9	16
110	Comments on "Treatment of Drainage Water with Industrial By-Products to Prevent Phosphorus Loss from Tile-Drained Land," by R.W. McDowell, A.N. Sharpley, and W. Bourke in the <i>Journal of Environmental Quality</i> 2008 37:1575-1582. <i>Journal of Environmental Quality</i> , 2009 , 38, 379-80, author reply 380	3.4	
109	Effect of land use and moisture on phosphorus forms in upland stream beds in South Otago, New Zealand. <i>Marine and Freshwater Research</i> , 2009 , 60, 619	2.2	9
108	Water quality and the effects of different pastoral animals. <i>New Zealand Veterinary Journal</i> , 2008 , 56, 289-96	1.7	62
107	Potential waterway contamination associated with wintering deer on pastures and forage crops. <i>New Zealand Journal of Agricultural Research</i> , 2008 , 51, 287-290	1.9	1
106	Phosphorus in humped and hollowed soils of the Inchbonnie catchment, West Coast, New Zealand: I. Variation with age and distribution. <i>New Zealand Journal of Agricultural Research</i> , 2008 , 51, 299-306	1.9	6
105	Phosphorus in humped and hollowed soils of the Inchbonnie catchment, West Coast, New Zealand: II. Accounting for losses by different pathways. <i>New Zealand Journal of Agricultural Research</i> , 2008 , 51, 307-316	1.9	9
104	Water quality of a stream recently fenced-off from deer. <i>New Zealand Journal of Agricultural Research</i> , 2008 , 51, 291-298	1.9	15
103	Treatment of drainage water with industrial by-products to prevent phosphorus loss from tile-drained land. <i>Journal of Environmental Quality</i> , 2008 , 37, 1575-82	3.4	51
102	The fate of phosphorus under contrasting border-check irrigation regimes. <i>Soil Research</i> , 2008 , 46, 309	1.8	15
101	A comparison of phosphorus speciation and potential bioavailability in feed and feces of different dairy herds using ³¹ P nuclear magnetic resonance spectroscopy. <i>Journal of Environmental Quality</i> , 2008 , 37, 741-52	3.4	36

100	An examination of potential extraction methods to assess plant-available organic phosphorus in soil. <i>Biology and Fertility of Soils</i> , 2008 , 44, 707-715	6.1	24
99	Phosphorus movement and speciation in a sandy soil profile after long-term animal manure applications. <i>Journal of Environmental Quality</i> , 2007 , 36, 305-15	3.4	84
98	Sources of sediment and phosphorus in stream flow of a highly productive dairy farmed catchment. <i>Journal of Environmental Quality</i> , 2007 , 36, 540-8	3.4	33
97	Water quality in headwater catchments with deer wallows. <i>Journal of Environmental Quality</i> , 2007 , 36, 1377-82	3.4	19
96	Sources of phosphorus lost from a grazed pasture receiving simulated rainfall. <i>Journal of Environmental Quality</i> , 2007 , 36, 1281-8	3.4	58
95	Modelling to analyse the impacts of animal treading effects on soil infiltration. <i>Hydrological Processes</i> , 2007 , 21, 1106-1114	3.3	7
94	Organic phosphorus speciation and pedogenesis: analysis by solution ³¹ P nuclear magnetic resonance spectroscopy. <i>European Journal of Soil Science</i> , 2007 , 58, 1348-1357	3.4	73
93	Influence of aggregate size on phosphorus changes in a soil cultivated intermittently: analysis by ³¹ P nuclear magnetic resonance. <i>Biology and Fertility of Soils</i> , 2007 , 43, 409-415	6.1	12
92	Nutrient management in New Zealand pastures—recent developments and future issues. <i>New Zealand Journal of Agricultural Research</i> , 2007 , 50, 181-201	1.9	111
91	SOLID-STATE FOURIER TRANSFORM INFRARED AND ³¹ P NUCLEAR MAGNETIC RESONANCE SPECTRAL FEATURES OF PHOSPHATE COMPOUNDS. <i>Soil Science</i> , 2007 , 172, 501-515	0.9	70
90	Hydrological approaches to the delineation of critical-source areas of runoff. <i>New Zealand Journal of Agricultural Research</i> , 2007 , 50, 249-265	1.9	16
89	Assessment of a technique to remove phosphorus from streamflow. <i>New Zealand Journal of Agricultural Research</i> , 2007 , 50, 503-510	1.9	20
88	Surface Water 2007 , 1196-1199		
87	Assessing the bioavailability of dissolved organic phosphorus in pasture and cultivated soils treated with different rates of nitrogen fertiliser. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 61-70	7.5	33
86	Nutrient, Sediment, and Bacterial Losses in Overland Flow from Pasture and Cropping Soils Following Cattle Dung Deposition. <i>Communications in Soil Science and Plant Analysis</i> , 2006 , 37, 93-108	1.5	26
85	The phosphorus composition of contrasting soils in pastoral, native and forest management in Otago, New Zealand: Sequential extraction and ³¹ P NMR. <i>Geoderma</i> , 2006 , 130, 176-189	6.7	88
84	An examination of spin-lattice relaxation times for analysis of soil and manure extracts by liquid state phosphorus-31 nuclear magnetic resonance spectroscopy. <i>Journal of Environmental Quality</i> , 2006 , 35, 293-302	3.4	84
83	Phosphorus and sediment loss in a catchment with winter forage grazing of cropland by dairy cattle. <i>Journal of Environmental Quality</i> , 2006 , 35, 575-83	3.4	24

82	Influence of long-term irrigation on the distribution and availability of soil phosphorus under permanent pasture. <i>Soil Research</i> , 2006 , 44, 127	1.8	15
81	Effect of plot scale and an upslope phosphorus source on phosphorus loss in overland flow. <i>Soil Use and Management</i> , 2006 , 18, 112-119	3.1	15
80	Effects of deer grazing and fence-line pacing on water and soil quality. <i>Soil Use and Management</i> , 2006 , 20, 302-307	3.1	4
79	Influence of aggregate size on phosphorus loss and ryegrass yield in a soil cultivated intermittently. <i>Soil Use and Management</i> , 2006 , 22, 224-226	3.1	4
78	Effects of shelter belts on fence-line pacing of deer and associated impacts on water and soil quality. <i>Soil Use and Management</i> , 2006 , 22, 158-164	3.1	7
77	Contaminant Losses in Overland Flow from Cattle, Deer and Sheep Dung. <i>Water, Air, and Soil Pollution</i> , 2006 , 174, 211-222	2.6	27
76	Modelling phosphorus losses from pastoral farming systems in New Zealand. <i>New Zealand Journal of Agricultural Research</i> , 2005 , 48, 131-141	1.9	32
75	An improved technique for the determination of organic phosphorus in sediments and soils by ³¹ P nuclear magnetic resonance spectroscopy. <i>Chemistry and Ecology</i> , 2005 , 21, 11-22	2.3	33
74	The effectiveness of coal fly-ash to decrease phosphorus loss from grassland soils. <i>Soil Research</i> , 2005 , 43, 853	1.8	14
73	Restricting the grazing time of cattle to decrease phosphorus, sediment and E. coli losses in overland flow from cropland. <i>Soil Research</i> , 2005 , 43, 61	1.8	29
72	Alternative fertilisers and management to decrease incidental phosphorus loss. <i>Environmental Chemistry Letters</i> , 2005 , 2, 169-174	13.3	34
71	Chemical Nature and Diversity of Phosphorus in New Zealand Pasture Soils Using ³¹ P Nuclear Magnetic Resonance Spectroscopy and Sequential Fractionation. <i>Nutrient Cycling in Agroecosystems</i> , 2005 , 72, 241-254	3.3	43
70	Phosphorus in fresh and dry dung of grazing dairy cattle, deer, and sheep: sequential fraction and phosphorus-31 nuclear magnetic resonance analyses. <i>Journal of Environmental Quality</i> , 2005 , 34, 598-607	3.4	63
69	Comments on Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manure. <i>Soil Science Society of America Journal</i> , 2005 , 69, 1353-1354	2.5	5
68	Response to Comments on Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manure. <i>Soil Science Society of America Journal</i> , 2005 , 69, 1355-1355	2.5	0
67	Peak assignments for phosphorus-31 nuclear magnetic resonance spectroscopy in pH range 5-8 and their application in environmental samples. <i>Chemistry and Ecology</i> , 2005 , 21, 211-226	2.3	41
66	Particulate phosphorus transport within stream flow of an agricultural catchment. <i>Journal of Environmental Quality</i> , 2004 , 33, 2111-21	3.4	43
65	Connecting phosphorus loss from agricultural landscapes to surface water quality. <i>Chemistry and Ecology</i> , 2004 , 20, 1-40	2.3	108

64	Variation of phosphorus leached from Pennsylvanian soils amended with manures, composts or inorganic fertilizer. <i>Agriculture, Ecosystems and Environment</i> , 2004 , 102, 17-27	5.7	66
63	Estimating phosphorus loss from New Zealand grassland soils. <i>New Zealand Journal of Agricultural Research</i> , 2004 , 47, 137-145	1.9	91
62	The effectiveness of industrial by-products to stop phosphorous loss from a Pallic soil. <i>Soil Research</i> , 2004 , 42, 755	1.8	10
61	Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manure. <i>Soil Science Society of America Journal</i> , 2004 , 68, 2048-2057	2.5	175
60	Effects of deer grazing and fence-line pacing on water and soil quality. <i>Soil Use and Management</i> , 2004 , 20, 302-307	3.1	14
59	Analysis of Phosphorus in Sequentially Extracted Grassland Soils Using Solid State NMR. <i>Communications in Soil Science and Plant Analysis</i> , 2003 , 34, 1623-1636	1.5	14
58	The effects of soil carbon on phosphorus and sediment loss from soil trays by overland flow. <i>Journal of Environmental Quality</i> , 2003 , 32, 207-14	3.4	29
57	Influence of soil treading on sediment and phosphorus losses in overland flow. <i>Soil Research</i> , 2003 , 41, 949	1.8	55
56	Using Soil Phosphorus Profile Data to Assess Phosphorus Leaching Potential in Manured Soils. <i>Soil Science Society of America Journal</i> , 2003 , 67, 215-224	2.5	43
55	Uptake and release of phosphorus from overland flow in a stream environment. <i>Journal of Environmental Quality</i> , 2003 , 32, 937-48	3.4	42
54	Sediment Phosphorus Chemistry and Microbial Biomass along a Lowland New Zealand Stream. <i>Aquatic Geochemistry</i> , 2003 , 9, 19-40	1.7	17
53	Modification of phosphorus export from an eastern USA catchment by fluvial sediment and phosphorus inputs. <i>Agriculture, Ecosystems and Environment</i> , 2003 , 99, 187-199	5.7	44
52	Potential phosphorus losses in overland flow from pastoral soils receiving long-term applications of either superphosphate or reactive phosphate rock. <i>New Zealand Journal of Agricultural Research</i> , 2003 , 46, 329-337	1.9	45
51	Phosphorus solubility and release kinetics as a function of soil test P concentration. <i>Geoderma</i> , 2003 , 112, 143-154	6.7	108
50	Mechanisms of phosphorus solubilisation in a limed soil as a function of pH. <i>Chemosphere</i> , 2003 , 51, 685-94	3.4	36
49	Identification of Phosphorus Species in Extracts of Soils with Contrasting Management Histories. <i>Communications in Soil Science and Plant Analysis</i> , 2003 , 34, 1083-1095	1.5	18
48	Soil phosphorus concentrations to minimise potential P loss to surface waters in Southland. <i>New Zealand Journal of Agricultural Research</i> , 2003 , 46, 239-253	1.9	50
47	The Effects of Soil Carbon on Phosphorus and Sediment Loss from Soil Trays by Overland Flow. <i>Journal of Environmental Quality</i> , 2003 , 32, 207		13

46	Uptake and Release of Phosphorus from Overland Flow in a Stream Environment 2003 , 32, 937		18
45	Using Soil Phosphorus Profile Data to Assess Phosphorus Leaching Potential in Manured Soils 2003 , 67, 215		16
44	Cattle treading and phosphorus and sediment loss in overland flow from grazed cropland. <i>Soil Research</i> , 2003 , 41, 1521	1.8	44
43	Analysis of Potentially Mobile Phosphorus in Arable Soils Using Solid State Nuclear Magnetic Resonance. <i>Journal of Environmental Quality</i> , 2002 , 31, 450	3.4	21
42	Analysis of Potentially Mobile Phosphorus in Arable Soils Using Solid State Nuclear Magnetic Resonance. <i>Journal of Environmental Quality</i> , 2002 , 31, 450-456	3.4	27
41	Phosphorus Transport in Overland Flow in Response to Position of Manure Application. <i>Journal of Environmental Quality</i> , 2002 , 31, 217-227	3.4	44
40	The effect of antecedent moisture conditions on sediment and phosphorus loss during overland flow: Mahantango Creek catchment, Pennsylvania, USA. <i>Hydrological Processes</i> , 2002 , 16, 3037-3050	3.3	51
39	Land use and flow regime effects on phosphorus chemical dynamics in the fluvial sediment of the Winooski River, Vermont. <i>Ecological Engineering</i> , 2002 , 18, 477-487	3.9	46
38	INTEGRATING PHOSPHORUS AND NITROGEN DECISION MANAGEMENT AT WATERSHED SCALES1. <i>Journal of the American Water Resources Association</i> , 2002 , 38, 479-491	2.1	20
37	Availability of residual phosphorus in high phosphorus soils. <i>Communications in Soil Science and Plant Analysis</i> , 2002 , 33, 1235-1246	1.5	15
36	The effect of soil acidity on potentially mobile phosphorus in a grassland soil. <i>Journal of Agricultural Science</i> , 2002 , 139, 27-36	1	33
35	Indicator to predict the movement of phosphorus from soil to subsurface flow. <i>Environmental Science & Technology</i> , 2002 , 36, 1505-9	10.3	38
34	The potential for phosphorus loss in relation to nitrogen fertiliser application and cultivation. <i>New Zealand Journal of Agricultural Research</i> , 2002 , 45, 245-253	1.9	18
33	Soil phosphorus quantity-intensity relationships to predict increased soil phosphorus loss to overland and subsurface flow. <i>Chemosphere</i> , 2002 , 48, 679-87	8.4	48
32	Phosphorus Transport in Overland Flow in Response to Position of Manure Application 2002 , 31, 217		13
31	Phosphorus transport in overland flow in response to position of manure application. <i>Journal of Environmental Quality</i> , 2002 , 31, 217-27	3.4	2
30	Analysis of potentially mobile phosphorus in arable soils using solid state nuclear magnetic resonance. <i>Journal of Environmental Quality</i> , 2002 , 31, 450-6	3.4	2
29	Assessing site vulnerability to phosphorus loss in an agricultural watershed. <i>Journal of Environmental Quality</i> , 2001 , 30, 2026-36	3.4	121

28	THE USE OF ISOTOPIC EXCHANGE KINETICS TO ASSESS PHOSPHORUS AVAILABILITY IN OVERLAND FLOW AND SUBSURFACE DRAINAGE WATERS. <i>Soil Science</i> , 2001 , 166, 365-373	0.9	26
27	Processes controlling soil phosphorus release to runoff and implications for agricultural management. <i>Nutrient Cycling in Agroecosystems</i> , 2001 , 59, 269-284	3.3	129
26	A Comparison of Fluvial Sediment Phosphorus (P) Chemistry in Relation to Location and Potential to Influence Stream P Concentrations. <i>Aquatic Geochemistry</i> , 2001 , 7, 255-265	1.7	57
25	Phosphorus loss from land to water: integrating agricultural and environmental management. <i>Plant and Soil</i> , 2001 , 237, 287-307	4.2	262
24	Soil phosphorus fractions in solution: influence of fertiliser and manure, filtration and method of determination. <i>Chemosphere</i> , 2001 , 45, 737-48	8.4	48
23	Phosphorus losses in subsurface flow before and after manure application to intensively farmed land. <i>Science of the Total Environment</i> , 2001 , 278, 113-25	10.2	104
22	INNOVATIVE MANAGEMENT OF AGRICULTURAL PHOSPHORUS TO PROTECT SOIL AND WATER RESOURCES. <i>Communications in Soil Science and Plant Analysis</i> , 2001 , 32, 1071-1100	1.5	43
21	Influence of soil constituents on soil phosphorus sorption and desorption. <i>Communications in Soil Science and Plant Analysis</i> , 2001 , 32, 2531-2547	1.5	47
20	Approximating phosphorus release from soils to surface runoff and subsurface drainage. <i>Journal of Environmental Quality</i> , 2001 , 30, 508-20	3.4	332
19	Phosphorus export from an agricultural watershed: linking source and transport mechanisms. <i>Journal of Environmental Quality</i> , 2001 , 30, 1587-95	3.4	117
18	RELATIONSHIP BETWEEN SOIL TEST PHOSPHORUS AND PHOSPHORUS RELEASE TO SOLUTION. <i>Soil Science</i> , 2001 , 166, 137-149	0.9	101
17	Variation of phosphorus loss from a small Catchment in south Devon, UK. <i>Agriculture, Ecosystems and Environment</i> , 2000 , 79, 143-157	5.7	38
16	Chemical nature and potential mobility of phosphorus in fertilized grassland soils. <i>Nutrient Cycling in Agroecosystems</i> , 2000 , 57, 225-233	3.3	46
15	Significance of analog instrumentation-design philosophy of replacement dump arrest unit at Pickering Station Candu reactor. <i>IEEE Transactions on Nuclear Science</i> , 1997 , 44, 1081-1083	1.7	2
14	Dissipation of imazapyr, flumetsulam and thifensulfuron in soil. <i>Weed Research</i> , 1997 , 37, 381-389	1.9	27
13	Fatal hemorrhage caused by varicose veins. <i>American Journal of Forensic Medicine and Pathology</i> , 1994 , 15, 100-4	1	21
12	Placental transfer of 2,3,5-triiodobenzoic acid in the rat. <i>Journal of Pharmaceutical Sciences</i> , 1971 , 60, 695-9	3.9	1
11	Nitrogen fertilization effects on soil phosphorus dynamics under a grass-pasture system. <i>Nutrient Cycling in Agroecosystems</i> , 1	3.3	1

10	OVERSEER nutrient budgets - moving towards on-farm resource accounting. <i>Proceedings of the New Zealand Grassland Association</i> ,191-194	46
9	Water and soil quality in an Otago deer farm. <i>Proceedings of the New Zealand Grassland Association</i> ,187-193	6
8	Monitoring the impact of farm practices on water quality in the Otago and Southland deer focus farms. <i>Proceedings of the New Zealand Grassland Association</i> ,183-188	11
7	Phosphorus, nitrogen and sediment losses from irrigated cropland and pasture grazed by cattle and sheep. <i>Proceedings of the New Zealand Grassland Association</i> ,77-83	7
6	Potential water quality impact and agronomic effectiveness of different phosphorus fertilisers under grazed dairying in Southland. <i>Proceedings of the New Zealand Grassland Association</i> ,225-229	2
5	Using nitrogen fertiliser to decrease phosphorus loss from high phosphorus soils. <i>Proceedings of the New Zealand Grassland Association</i> ,121-125	4
4	Deer and environment: Overseer upgrade. <i>Proceedings of the New Zealand Grassland Association</i> ,95-99	2
3	The impact of cattle grazing and treading on soil properties and the transport of phosphorus, sediment and E. coli in surface runoff from grazed pasture. <i>New Zealand Journal of Agricultural Research</i> ,1-18	1.9 0
2	The potential for phosphorus loss to groundwater from soils irrigated with dairy factory wastewater. <i>New Zealand Journal of Agricultural Research</i> ,1-19	1.9
1	Sediment and water-column phosphorus chemistry in streams at baseflow across varying catchment geologies. <i>Inland Waters</i> ,1-65	2.4