Rich McDowell

List of Publications by Year
in descending order

252 papers	10,079 citations	38742 50 h-index	49909 87 g-index
256 all docs	256 docs citations	256 times ranked	7932 citing authors

#	Article	IF	Citations
1	The potential for phosphorus loss to groundwater from soils irrigated with dairy factory wastewater. New Zealand Journal of Agricultural Research, 2023, 66, 189-207.	1.6	1
2	Effects of longâ€term phosphorus fertilizer inputs and seasonal conditions on organic soil phosphorus cycling under grazed pasture. Soil Use and Management, 2023, 39, 385-401.	4.9	4
3	Total soil cadmium concentrations in the Winchmore long-term phosphorus fertiliser trial are still increasing. New Zealand Journal of Agricultural Research, 2022, 65, 103-110.	1.6	6
4	The impact of cattle grazing and treading on soil properties and the transport of phosphorus, sediment and <i>E. coli</i> in surface runoff from grazed pasture. New Zealand Journal of Agricultural Research, 2022, 65, 445-462.	1.6	4
5	Do soil cadmium concentrations decline after phosphate fertiliser application is stopped: A comparison of long-term pasture trials in New Zealand?. Science of the Total Environment, 2022, 804, 150047.	8.0	13
6	Amending soils of different pH to decrease phosphorus losses. Soil Research, 2022, 60, 114-123.	1.1	5
7	Assessing the leaching of cadmium in an irrigated and grazed pasture soil. Environmental Pollution, 2022, 292, 118430.	7.5	12
8	Nitrogen fertilization effects on soil phosphorus dynamics under a grass-pasture system. Nutrient Cycling in Agroecosystems, 2022, 124, 227-246.	2.2	8
9	Sediment and water-column phosphorus chemistry in streams at baseflow across varying catchment geologies. Inland Waters, 2022, 12, 510-525.	2.2	0
10	Towards implementation of robust monitoring technologies alongside freshwater improvement policy in Aotearoa New Zealand. Environmental Science and Policy, 2022, 132, 1-12.	4.9	7
11	A Proposed New Approach to Identify Limiting Factors in Assessing Land Suitability for Sustainable Land Management. Communications in Soil Science and Plant Analysis, 2022, 53, 2558-2573.	1.4	6
12	Minimizing phosphorus leaching from a sandy clay loam caused by phosphorus fertilizers. Environmental Monitoring and Assessment, 2022, 194, .	2.7	1
13	Global database of diffuse riverine nitrogen and phosphorus loads and yields. Geoscience Data Journal, 2021, 8, 132-143.	4.4	9
14	Phosphorus transport in subsurface flow from a stony soil under irrigated and non-irrigated lucerne. New Zealand Journal of Agricultural Research, 2021, 64, 429-443.	1.6	3
15	Evidence for the leaching of dissolved organic phosphorus to depth. Science of the Total Environment, 2021, 755, 142392.	8.0	19
16	Quantifying contaminant losses to water from pastoral land uses in New Zealand III. What could be achieved by 2035?. New Zealand Journal of Agricultural Research, 2021, 64, 390-410.	1.6	13
17	Plant Species Rather than Elevated Atmospheric CO2 Impact Rhizosphere Properties and Phosphorus Fractions in a Phosphorus-Deficient Soil. Journal of Soil Science and Plant Nutrition, 2021, 21, 622-636.	3.4	4
18	Seventy years of data from the worldâ€™s longest grazed and irrigated pasture trials. Scientific Data, 2021, 8, 53.	5.3	5

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19	Reflecting on the journey of environmental farm planning in New Zealand. New Zealand Journal of Agricultural Research, 2021, 64, 463-470.	1.6	8
20	Sediment phosphorus buffering in streams at baseflow: A metaâ€analysis. Journal of Environmental Quality, 2021, 50, 287-311.	2.0	24
21	National-scale implementation of mandatory freshwater farm plans: a mechanism to deliver water quality improvement in productive catchments in New Zealand?. Nutrient Cycling in Agroecosystems, 2021, 120, 121.	2.2	4
22	Land use and water quality. New Zealand Journal of Agricultural Research, 2021, 64, 269-270.	1.6	1
23	Quantifying contaminant losses to water from pastoral landuses in New Zealand I. Development of a spatial framework for assessing losses at a farm scale. New Zealand Journal of Agricultural Research, 2021, 64, 344-364.	1.6	7
24	Reductive dissolution of phosphorus associated with ironâ€oxides during saturation in agricultural soil profiles. Journal of Environmental Quality, 2021, 50, 1207-1219.	2.0	8
25	The implications of lag times between nitrate leaching losses and riverine loads for water quality policy. Scientific Reports, 2021, 11, 16450.	3.3	14
26	Potential phosphorus losses from grassland soils irrigated with dairy factory wastewater. Nutrient Cycling in Agroecosystems, 2021, 121, 69-84.	2.2	3
27	Developing an indicator of productive potential to assess land use suitability in New Zealand. Environmental and Sustainability Indicators, 2021, 11, 100128.	3.3	3
28	Estimating and modelling the risk of redox-sensitive phosphorus loss from saturated soils using different soil tests. Geoderma, 2021, 398, 115094.	5.1	9
29	Quantifying contaminant losses to water from pastoral landuses in New Zealand II. The effects of some farm mitigation actions over the past two decades. New Zealand Journal of Agricultural Research, 2021, 64, 365-389.	1.6	20
30	Microbiome innovations for a sustainable future. Nature Microbiology, 2021, 6, 138-142.	13.3	53
31	Implications of water quality policy on land use: a case study of the approach in New Zealand. Marine and Freshwater Research, 2021, 72, 451.	1.3	6
32	The mitigation of phosphorus losses from a water-repellent soil used for grazed dairy farming. Geoderma, 2020, 362, 114125.	5.1	6
33	Long-term atmospheric carbon dioxide enrichment decreases soil phosphorus availability in a grazed temperate pasture. Geoderma, 2020, 378, 114621.	5.1	8
34	The biotic contribution to the benthic stream sediment phosphorus buffer. Biogeochemistry, 2020, 151, 63-79.	3.5	7
35	Changes in soil cadmium concentrations with time following cessation of phosphorus fertilizer inputs. Journal of Environmental Quality, 2020, 49, 1054-1061.	2.0	7
36	Likely controls on dissolved reactive phosphorus concentrations in baseflow of an agricultural stream. Journal of Soils and Sediments, 2020, 20, 3254-3265.	3.0	12

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37	Global mapping of freshwater nutrient enrichment and periphyton growth potential. Scientific Reports, 2020, 10, 3568.	3.3	49
38	Dynamics of phosphorus exchange between sediment and water in a gravel-bed river. New Zealand Journal of Marine and Freshwater Research, 2020, 54, 658-678.	2.0	6
39	Mitigation of phosphorus, sediment and Escherichia coli losses in runoff from a dairy farm roadway. Irish Journal of Agricultural and Food Research, 2020, 59, .	0.4	3
40	The Ability to Reduce Soil Legacy Phosphorus at a Country Scale. Frontiers in Environmental Science, 2020, 8, .	3.3	34
41	Role of Organic Anions and Phosphatase Enzymes in Phosphorus Acquisition in the Rhizospheres of Legumes and Grasses Grown in a Low Phosphorus Pasture Soil. Plants, 2020, 9, 1185.	3.5	26
42	The influence of a flood event on the potential sediment control of baseflow phosphorus concentrations in an intensive agricultural catchment. Journal of Soils and Sediments, 2019, 19, 429-438.	3.0	9
43	The potential for potassium chloride fertiliser applications to leach cadmium from a grazed pasture soil. Geoderma, 2019, 353, 293-296.	5.1	7
44	Quantifying the Extent of Anthropogenic Eutrophication of Lakes at a National Scale in New Zealand. Environmental Science & Technology, 2019, 53, 9439-9452.	10.0	30
45	Why are median phosphorus concentrations improving in New Zealand streams and rivers?. Journal of the Royal Society of New Zealand, 2019, 49, 143-170.	1.9	22
46	A Global Perspective on Phosphorus Management Decision Support in Agriculture: Lessons Learned and Future Directions. Journal of Environmental Quality, 2019, 48, 1218-1233.	2.0	22
47	The efficacy of good practice to prevent long-term leaching losses of phosphorus from an irrigated dairy farm. Agriculture, Ecosystems and Environment, 2019, 273, 86-94.	5.3	19
48	Development of a model using matter element, AHP and GIS techniques to assess the suitability of land for agriculture. Geoderma, 2019, 352, 80-95.	5.1	110
49	Direct Exports of Phosphorus from Fertilizers Applied to Grazed Pastures. Journal of Environmental Quality, 2019, 48, 1380-1396.	2.0	18
50	Transforming soil phosphorus fertility management strategies to support the delivery of multiple ecosystem services from agricultural systems. Science of the Total Environment, 2019, 649, 90-98.	8.0	48
51	Integration of ANP and Fuzzy set techniques for land suitability assessment based on remote sensing and GIS for irrigated maize cultivation. Archives of Agronomy and Soil Science, 2019, 65, 1063-1079.	2.6	34
52	Transforming phosphorus use on the island of Ireland: A model for a sustainable system. Science of the Total Environment, 2019, 656, 852-861.	8.0	8
53	The error in stream sediment phosphorus fractionation and sorption properties effected by drying pretreatments. Journal of Soils and Sediments, 2019, 19, 1587-1597.	3.0	18
54	The land use suitability concept: Introduction and an application of the concept to inform sustainable productivity within environmental constraints. Ecological Indicators, 2018, 91, 212-219.	6.3	48

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55	A review of regulations and guidelines related to winter manure application. Ambio, 2018, 47, 657-670.	5.5	45
56	Anthropogenic increases of catchment nitrogen and phosphorus loads in New Zealand. New Zealand Journal of Marine and Freshwater Research, 2018, 52, 336-361.	2.0	40
57	Impacts of long-term plant biomass management on soil phosphorus under temperate grassland. Plant and Soil, 2018, 427, 163-174.	3.7	21
58	Managing Diffuse Phosphorus at the Source versus at the Sink. Environmental Science & Technology, 2018, 52, 11995-12009.	10.0	78
59	A strategy for optimizing catchment management actions to stressorâ€"response relationships in freshwaters. Ecosphere, 2018, 9, e02482.	2.2	16
60	When experts disagree: the need to rethink indicator selection for assessing sustainability of agriculture. Environment, Development and Sustainability, 2017, 19, 1327-1342.	5.0	82
61	The effect of soil moisture extremes on the pathways and forms of phosphorus lost in runoff from two contrasting soil types. Soil Research, 2017, 55, 19.	1.1	13
62	Estimation of Catchment Nutrient Loads in New Zealand Using Monthly Water Quality Monitoring Data. Journal of the American Water Resources Association, 2017, 53, 158-178.	2.4	20
63	Does variable rate irrigation decrease nutrient leaching losses from grazed dairy farming?. Soil Use and Management, 2017, 33, 530-537.	4.9	19
64	Temperature and Nitrogen Effects on Phosphorus Uptake by Agricultural Streamâ€Bed Sediments. Journal of Environmental Quality, 2017, 46, 295-301.	2.0	15
65	Assessing the Yield and Load of Contaminants with Stream Order: Would Policy Requiring Livestock to Be Fenced Out of Highâ€Order Streams Decrease Catchment Contaminant Loads?. Journal of Environmental Quality, 2017, 46, 1038-1047.	2.0	17
66	Effects of Lime and Organic Amendments Derived from Varied Source Materials on Cadmium Uptake by Potato. Journal of Environmental Quality, 2017, 46, 836-844.	2.0	21
67	Balancing water-quality threats from nutrients and production in Australian and New Zealand dairy farms under low profit margins. Animal Production Science, 2017, 57, 1419.	1.3	16
68	An Assessment of MitAgator: A Farm-Scale Tool to Estimate and Manage the Loss of Contaminants from Land to Water. Transactions of the ASABE, 2016, 59, 537-543.	1.1	2
69	Using the Provenance of Sediment and Bioavailable Phosphorus to Help Mitigate Water Quality Impact in an Agricultural Catchment. Journal of Environmental Quality, 2016, 45, 1276-1285.	2.0	13
70	Guiding phosphorus stewardship for multiple ecosystem services. Ecosystem Health and Sustainability, 2016, 2, .	3.1	30
71	A review of the policies and implementation of practices to decrease water quality impairment by phosphorus in New Zealand, the UK, and the US. Nutrient Cycling in Agroecosystems, 2016, 104, 289-305.	2.2	73
72	The effect of irrigation and urine application on phosphorus losses to subsurface flow from a stony soil. Agriculture, Ecosystems and Environment, 2016, 233, 425-431.	5.3	13

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73	Can phosphorus fertilizers sparingly soluble in water decrease phosphorus leaching loss from an acid peat soil?. Soil Use and Management, 2016, 32, 322-328.	4.9	3
74	The use of alum to decrease phosphorus loss from dairy farm laneways in southern New Zealand. Soil Use and Management, 2016, 32, 69-71.	4.9	4
75	Optimizing land use for the delivery of catchment ecosystem services. Frontiers in Ecology and the Environment, 2016, 14, 325-332.	4.0	57
76	Variation in environmentally- and agronomically-significant soil phosphorus concentrations with time since stopping the application of phosphorus fertilisers. Geoderma, 2016, 280, 67-72.	5.1	29
77	Cadmium losses from a New Zealand organic soil. New Zealand Journal of Agricultural Research, 2016, 59, 185-193.	1.6	6
78	Global change pressures on soils from land use and management. Global Change Biology, 2016, 22, 1008-1028.	9.5	605
79	Cadmium accumulation by forage species used in New Zealand livestock grazing systems. Geoderma Regional, 2016, 7, 11-18.	2.1	17
80	Selection of a legume to use in a low phosphorus loss pasture. New Zealand Journal of Agricultural Research, 2016, 59, 106-112.	1.6	2
81	Municipal composts reduce the transfer of Cd from soil to vegetables. Environmental Pollution, 2016, 213, 8-15.	7.5	62
82	Integrating legacy soil phosphorus into sustainable nutrient management strategies for future food, bioenergy and water security. Nutrient Cycling in Agroecosystems, 2016, 104, 393-412.	2.2	199
83	The Environmental Impact of Fertiliser Nutrients on Freshwater. Issues in Environmental Science and Technology, 2016, , 20-44.	0.4	2
84	Extreme Phosphorus Losses in Drainage from Grazed Dairy Pastures on Marginal Land. Journal of Environmental Quality, 2015, 44, 545-551.	2.0	24
85	Relationship between Sediment Chemistry, Equilibrium Phosphorus Concentrations, and Phosphorus Concentrations at Baseflow in Rivers of the New Zealand National River Water Quality Network. Journal of Environmental Quality, 2015, 44, 921-929.	2.0	34
86	A National Assessment of the Potential Linkage between Soil, and Surface and Groundwater Concentrations of Phosphorus. Journal of the American Water Resources Association, 2015, 51, 992-1002.	2.4	45
87	Biogeochemical cycles and biodiversity as key drivers of ecosystem services provided by soils. Soil, 2015, 1, 665-685.	4.9	249
88	Transport of phosphorus in an alluvial gravel aquifer. New Zealand Journal of Agricultural Research, 2015, 58, 490-501.	1.6	5
89	Potential phosphorus losses from organic and podzol soils: prediction and the influence of soil physico-chemical properties and management. New Zealand Journal of Agricultural Research, 2015, 58, 170-180.	1.6	13
90	Treatment of pasture topsoil with alum to decrease phosphorus losses in subsurface drainage. Agriculture, Ecosystems and Environment, 2015, 207, 178-182.	5.3	8

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91	Speciation and distribution of organic phosphorus in river sediments: a national survey. Journal of Soils and Sediments, 2015, 15, 2369-2379.	3.0	17
92	Effects of cultivation on soil and soil water under different fertiliser regimes. Soil and Tillage Research, 2015, 145, 37-46.	5.6	10
93	Can the application of rare earth elements improve yield and decrease the uptake of cadmium in ryegrass-dominated pastures?. Soil Research, 2015, 53, 826.	1.1	2
94	Bayesian Network for Point and Diffuse Source Phosphorus Transfer from Dairy Pastures in South Otago, New Zealand. Journal of Environmental Quality, 2014, 43, 1370-1380.	2.0	4
95	A Cost-Effective Management Practice to Decrease Phosphorus Loss from Dairy Farms. Journal of Environmental Quality, 2014, 43, 2044-2052.	2.0	12
96	Water: Water Quality and Challenges from Agriculture. , 2014, , 425-436.		3
97	The Use of Alum to Decrease Phosphorus Losses in Runoff from Grassland Soils. Journal of Environmental Quality, 2014, 43, 1635-1643.	2.0	11
98	Using organic phosphorus to sustain pasture productivity: A perspective. Geoderma, 2014, 221-222, 11-19.	5.1	111
99	Is tillage an effective method to decrease phosphorus loss from phosphorus enriched pastoral soils?. Soil and Tillage Research, 2014, 135, 1-8.	5.6	19
100	Contrasting the spatial management of nitrogen and phosphorus for improved water quality: Modelling studies in New Zealand and France. European Journal of Agronomy, 2014, 57, 52-61.	4.1	18
101	Estimating the mitigation of anthropogenic loss of phosphorus in New Zealand grassland catchments. Science of the Total Environment, 2014, 468-469, 1178-1186.	8.0	19
102	Manipulation of fertiliser regimes in phosphorus enriched soils can reduce phosphorus loss to leachate through an increase in pasture and microbial biomass production. Agriculture, Ecosystems and Environment, 2014, 185, 65-76.	5.3	25
103	Phosphorus dynamics in sediments of a eutrophic lake derived from 31P nuclear magnetic resonance spectroscopy. Marine and Freshwater Research, 2014, 65, 70.	1.3	17
104	Natural background and anthropogenic contributions of cadmium to New Zealand soils. Agriculture, Ecosystems and Environment, 2013, 165, 80-87.	5.3	45
105	Managing pollutant inputs from pastoral dairy farming to maintain water quality of a lake in a high-rainfall catchment. Marine and Freshwater Research, 2013, 64, 447.	1.3	12
106	Changes in soil phosphorus availability and potential phosphorus loss following cessation of phosphorus fertiliser inputs. Soil Research, 2013, 51, 427.	1.1	18
107	Nutrients and eutrophication: introduction. Marine and Freshwater Research, 2013, 64, iii.	1.3	19
108	Assessment, modelling and management of land use and water quality in the upper Taieri River catchment. New Zealand Journal of Agricultural Research, 2013, 56, 261-278.	1.6	5

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109	Nitrate and phosphorus leaching in New Zealand: a national perspective. New Zealand Journal of Agricultural Research, 2013, 56, 49-59.	1.6	50
110	Establishment of reference or baseline conditions of chemical indicators in New Zealand streams and rivers relative to present conditions. Marine and Freshwater Research, 2013, 64, 387.	1.3	45
111	Phosphorus and the Winchmore trials: review and lessons learnt. New Zealand Journal of Agricultural Research, 2012, 55, 119-132.	1.6	36
112	Bibliography of research from the Winchmore Irrigation Research Station, Canterbury, New Zealand: 1951 to 2011. New Zealand Journal of Agricultural Research, 2012, 55, 181-206.	1.6	2
113	The rate of accumulation of cadmium and uranium in a long-term grazed pasture: implications for soil quality. New Zealand Journal of Agricultural Research, 2012, 55, 133-146.	1.6	27
114	Phosphorus source areas in a dairy catchment in Otago, New Zealand. Soil Research, 2012, 50, 145.	1.1	11
115	The Winchmore Trials. New Zealand Journal of Agricultural Research, 2012, 55, 89-91.	1.6	9
116	Minimising phosphorus losses from the soil matrix. Current Opinion in Biotechnology, 2012, 23, 860-865.	6.6	26
117	A Review of the Cost-Effectiveness and Suitability of Mitigation Strategies to Prevent Phosphorus Loss from Dairy Farms in New Zealand and Australia. Journal of Environmental Quality, 2012, 41, 680-693.	2.0	76
118	Predicting the changes in environmentally and agronomically significant phosphorus forms following the cessation of phosphorus fertilizer applications to grassland. Soil Use and Management, 2012, 28, 135-147.	4.9	58
119	Dissolved Organic Matter. Advances in Agronomy, 2011, 110, 1-75.	5.2	405
120	Nutrient losses associated with irrigation, intensification and management of land use: A study of large scale irrigation in North Otago, New Zealand. Agricultural Water Management, 2011, 98, 877-885.	5.6	25
121	Soil controls of phosphorus in runoff: Management barriers and opportunities. Canadian Journal of Soil Science, 2011, 91, 329-338.	1.2	154
122	Is mechanical soil aeration a strategy to alleviate soil compaction and decrease phosphorus and suspended sediment losses from irrigated and rainâ€fed cattleâ€grazed pastures?. Soil Use and Management, 2011, 27, 376-384.	4.9	8
123	Effects of cattle, sheep and deer grazing on soil physical quality and losses of phosphorus and suspended sediment losses in surface runoff. Agriculture, Ecosystems and Environment, 2011, 140, 264-272.	5.3	69
124	State and potential management to improve water quality in an agricultural catchment relative to a natural baseline. Agriculture, Ecosystems and Environment, 2011, 144, 188-200.	5.3	16
125	Phosphorus in pasture plants: potential implications for phosphorus loss in surface runoff. Plant and Soil, 2011, 345, 23-35.	3.7	17
126	Managing agricultural phosphorus for water quality protection: principles for progress. Plant and Soil, 2011, 349, 169-182.	3.7	226

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127	Land Application of Manure Can Influence Earthworm Activity and Soil Phosphorus Distribution. Communications in Soil Science and Plant Analysis, 2011, 42, 194-207.	1.4	12
128	Do aggregation, treading, and dung deposition affect phosphorus and suspended sediment losses in surface runoff?. Soil Research, 2010, 48, 705.	1.1	11
129	Is Cadmium Loss in Surface Runoff Significant for Soil and Surface Water Quality: A Study of Flood-Irrigated Pastures?. Water, Air, and Soil Pollution, 2010, 209, 133-142.	2.4	36
130	Identifying and linking source areas of flow and P transport in dairyâ€grazed headwater catchments, North Island, New Zealand. Hydrological Processes, 2010, 24, 3689-3705.	2.6	13
131	Potential phosphorus and sediment loads from sources within a dairy farmed catchment. Soil Use and Management, 2010, 26, 44-52.	4.9	16
132	Phosphorus fertilizer form affects phosphorus loss to waterways: a paired catchment study. Soil Use and Management, 2010, 26, 365-373.	4.9	26
133	Effects of cattle treading and soil moisture on phosphorus and sediment losses in surface runoff from pasture. New Zealand Journal of Agricultural Research, 2010, 53, 365-376.	1.6	10
134	Evaluation of two management options to improve the water quality of Lake Brunner, New Zealand. New Zealand Journal of Agricultural Research, 2010, 53, 59-69.	1.6	11
135	Comments on â€œTreatment of Drainage Water with Industrial Byâ€Products to Prevent Phosphorus Loss from Tileâ€Drained Land,â€•by R.W. McDowell, A.N. Sharpley, and W. Bourke in the <i>Journal of Environmental Quality</i> 2008 37:1575â€“1582. Journal of Environmental Quality, 2009, 38, 379-380.	2.0	0
136	Approaches for Quantifying and Managing Diffuse Phosphorus Exports at the Farm/Small Catchment Scale. Journal of Environmental Quality, 2009, 38, 1968-1980.	2.0	34
137	Nitrogen and phosphorus in New Zealand streams and rivers: Control and impact of eutrophication and the influence of land management. New Zealand Journal of Marine and Freshwater Research, 2009, 43, 985-995.	2.0	74
138	Maintaining good water and soil quality in catchments containing deer farms. International Journal of River Basin Management, 2009, 7, 187-195.	2.7	7
139	Identifying critical source areas for water quality: 1. Mapping and validating transport areas in three headwater catchments in Otago, New Zealand. Journal of Hydrology, 2009, 379, 54-67.	5.4	42
140	Identifying critical source areas for water quality: 2. Validating the approach for phosphorus and sediment losses in grazed headwater catchments. Journal of Hydrology, 2009, 379, 68-80.	5.4	45
141	Management options to decrease phosphorus and sediment losses from irrigated cropland grazed by cattle and sheep. Soil Use and Management, 2009, 25, 224-233.	4.9	30
142	Atmospheric deposition contributes little nutrient and sediment to stream flow from an agricultural watershed. Agriculture, Ecosystems and Environment, 2009, 134, 19-23.	5.3	6
143	The use of safe wallows to improve water quality in deer farmed catchments. New Zealand Journal of Agricultural Research, 2009, 52, 81-90.	1.6	10
144	Irrigation and soil physical quality: An investigation at a longâ€term irrigation site. New Zealand Journal of Agricultural Research, 2009, 52, 113-121.	1.6	17

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145	Effect of land use and moisture on phosphorus forms in upland stream beds in South Otago, New Zealand. Marine and Freshwater Research, 2009, 60, 619.	1.3	11
146	An examination of potential extraction methods to assess plant-available organic phosphorus in soil. Biology and Fertility of Soils, 2008, 44, 707-715.	4.3	28
147	Water quality and the effects of different pastoral animals. New Zealand Veterinary Journal, 2008, 56, 289-296.	0.9	76
148	Potential waterway contamination associated with wintering deer on pastures and forage crops. New Zealand Journal of Agricultural Research, 2008, 51, 287-290.	1.6	3
149	Phosphorus in humped and hollowed soils of the Inchbonnie catchment, West Coast, New Zealand: I. Variation with age and distribution. New Zealand Journal of Agricultural Research, 2008, 51, 299-306.	1.6	6
150	Phosphorus in humped and hollowed soils of the Inchbonnie catchment, West Coast, New Zealand: II. Accounting for losses by different pathways. New Zealand Journal of Agricultural Research, 2008, 51, 307-316.	1.6	10
151	Water quality of a stream recently fencedâ€off from deer. New Zealand Journal of Agricultural Research, 2008, 51, 291-298.	1.6	18
152	Treatment of Drainage Water with Industrial Byâ€Products to Prevent Phosphorus Loss from Tileâ€Drained Land. Journal of Environmental Quality, 2008, 37, 1575-1582.	2.0	61
153	The fate of phosphorus under contrasting border-check irrigation regimes. Soil Research, 2008, 46, 309.	1.1	15
154	A Comparison of Phosphorus Speciation and Potential Bioavailability in Feed and Feces of Different Dairy Herds Using ³¹P Nuclear Magnetic Resonance Spectroscopy. Journal of Environmental Quality, 2008, 37, 741-752.	2.0	41
155	Nutrient management in New Zealand pasturesâ€" recent developments and future issues. New Zealand Journal of Agricultural Research, 2007, 50, 181-201.	1.6	130
156	SOLID-STATE FOURIER TRANSFORM INFRARED AND 31P NUCLEAR MAGNETIC RESONANCE SPECTRAL FEATURES OF PHOSPHATE COMPOUNDS. Soil Science, 2007, 172, 501-515.	0.9	82
157	Hydrological approaches to the delineation of criticalâ€source areas of runoff. New Zealand Journal of Agricultural Research, 2007, 50, 249-265.	1.6	19
158	Assessment of a technique to remove phosphorus from streamflow. New Zealand Journal of Agricultural Research, 2007, 50, 503-510.	1.6	23
159	Phosphorus Movement and Speciation in a Sandy Soil Profile after Long-Term Animal Manure Applications. Journal of Environmental Quality, 2007, 36, 305-315.	2.0	101
160	Sources of Sediment and Phosphorus in Stream Flow of a Highly Productive Dairy Farmed Catchment. Journal of Environmental Quality, 2007, 36, 540-548.	2.0	36
161	Water Quality in Headwater Catchments with Deer Wallows. Journal of Environmental Quality, 2007, 36, 1377-1382.	2.0	25
162	Sources of Phosphorus Lost from a Grazed Pasture Receiving Simulated Rainfall. Journal of Environmental Quality, 2007, 36, 1281-1288.	2.0	66

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163	Modelling to analyse the impacts of animal treading effects on soil infiltration. Hydrological Processes, 2007, 21, 1106-1114.	2.6	8
164	Organic phosphorus speciation and pedogenesis: analysis by solution ³¹P nuclear magnetic resonance spectroscopy. European Journal of Soil Science, 2007, 58, 1348-1357.	3.9	84
165	Influence of aggregate size on phosphorus changes in a soil cultivated intermittently: analysis by 31P nuclear magnetic resonance. Biology and Fertility of Soils, 2007, 43, 409-415.	4.3	14
166	Surface Water. , 2007, , 1196-1199.		0
167	Nutrient, Sediment, and Bacterial Losses in Overland Flow from Pasture and Cropping Soils Following Cattle Dung Deposition. Communications in Soil Science and Plant Analysis, 2006, 37, 93-108.	1.4	30
168	The phosphorus composition of contrasting soils in pastoral, native and forest management in Otago, New Zealand: Sequential extraction and 31P NMR. Geoderma, 2006, 130, 176-189.	5.1	102
169	An Examination of Spin-Lattice Relaxation Times for Analysis of Soil and Manure Extracts by Liquid State Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy. Journal of Environmental Quality, 2006, 35, 293-302.	2.0	101
170	Phosphorus and Sediment Loss in a Catchment with Winter Forage Grazing of Cropland by Dairy Cattle. Journal of Environmental Quality, 2006, 35, 575-583.	2.0	26
171	Influence of long-term irrigation on the distribution and availability of soil phosphorus under permanent pasture. Soil Research, 2006, 44, 127.	1.1	16
172	Influence of aggregate size on phosphorus loss and ryegrass yield in a soil cultivated intermittently. Soil Use and Management, 2006, 22, 224-226.	4.9	4
173	Effects of shelter belts on fence-line pacing of deer and associated impacts on water and soil quality. Soil Use and Management, 2006, 22, 158-164.	4.9	8
174	Contaminant Losses in Overland Flow from Cattle, Deer and Sheep Dung. Water, Air, and Soil Pollution, 2006, 174, 211-222.	2.4	31
175	Assessing the bioavailability of dissolved organic phosphorus in pasture and cultivated soils treated with different rates of nitrogen fertiliser. Soil Biology and Biochemistry, 2006, 38, 61-70.	8.8	40
176	The effectiveness of coal fly-ash to decrease phosphorus loss from grassland soils. Soil Research, 2005, 43, 853.	1.1	15
177	Restricting the grazing time of cattle to decrease phosphorus, sediment and E. coli losses in overland flow from cropland. Soil Research, 2005, 43, 61.	1.1	34
178	Alternative fertilisers and management to decrease incidental phosphorus loss. Environmental Chemistry Letters, 2005, 2, 169-174.	16.2	41
179	Chemical Nature and Diversity of Phosphorus in New Zealand Pasture Soils Using 31P Nuclear Magnetic Resonance Spectroscopy and Sequential Fractionation. Nutrient Cycling in Agroecosystems, 2005, 72, 241-254.	2.2	49
180	Phosphorus in Fresh and Dry Dung of Grazing Dairy Cattle, Deer, and Sheep. Journal of Environmental Quality, 2005, 34, 598-607.	2.0	74

#	Article	IF	Citations
181	Comments on â€œAmounts, Forms, and Solubility of Phosphorus in Soils Receiving Manureâ€ Soil Science Society of America Journal, 2005, 69, 1353-1354.	2.2	6
182	Response to â€œComments on â€˜Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manureâ€™â€ Soil Science Society of America Journal, 2005, 69, 1355-1355.	2.2	2
183	Peak assignments for phosphorus-31 nuclear magnetic resonance spectroscopy in pH range 5â€“13 and their application in environmental samples. Chemistry and Ecology, 2005, 21, 211-226.	1.6	46
184	Modelling phosphorus losses from pastoral farming systems in New Zealand. New Zealand Journal of Agricultural Research, 2005, 48, 131-141.	1.6	35
185	An improved technique for the determination of organic phosphorus in sediments and soils by31P nuclear magnetic resonance spectroscopy. Chemistry and Ecology, 2005, 21, 11-22.	1.6	35
186	Particulate Phosphorus Transport within Stream Flow of an Agricultural Catchment. Journal of Environmental Quality, 2004, 33, 2111-2121.	2.0	52
187	Connecting phosphorus loss from agricultural landscapes to surface water quality. Chemistry and Ecology, 2004, 20, 1-40.	1.6	138
188	Variation of phosphorus leached from Pennsylvanian soils amended with manures, composts or inorganic fertilizer. Agriculture, Ecosystems and Environment, 2004, 102, 17-27.	5.3	81
189	Estimating phosphorus loss from New Zealand grassland soils. New Zealand Journal of Agricultural Research, 2004, 47, 137-145.	1.6	106
190	The effectiveness of industrial by-products to stop phosphorous loss from a Pallic soil. Soil Research, 2004, 42, 755.	1.1	11
191	Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manure. Soil Science Society of America Journal, 2004, 68, 2048-2057.	2.2	223
192	Effects of deer grazing and fenceâ€line pacing on water and soil quality. Soil Use and Management, 2004, 20, 302-307.	4.9	10
193	Effects of deer grazing and fence-line pacing on water and soil quality. Soil Use and Management, 2004, 20, 302-307.	4.9	14
194	Sediment Phosphorus Chemistry and Microbial Biomass along a Lowland New Zealand Stream. Aquatic Geochemistry, 2003, 9, 19-40.	1.3	18
195	Modification of phosphorus export from an eastern USA catchment by fluvial sediment and phosphorus inputs. Agriculture, Ecosystems and Environment, 2003, 99, 187-199.	5.3	50
196	Potential phosphorus losses in overland flow from pastoral soils receiving longâ€term applications of either superphosphate or reactive phosphate rock. New Zealand Journal of Agricultural Research, 2003, 46, 329-337.	1.6	52
197	Phosphorus solubility and release kinetics as a function of soil test P concentration. Geoderma, 2003, 112, 143-154.	5.1	124
198	Mechanisms of phosphorus solubilisation in a limed soil as a function of pH. Chemosphere, 2003, 51, 685-692.	8.2	46

#	Article	IF	Citations
199	Identification of Phosphorus Species in Extracts of Soils with Contrasting Management Histories. Communications in Soil Science and Plant Analysis, 2003, 34, 1083-1095.	1.4	20
200	Soil phosphorus concentrations to minimise potential P loss to surface waters in Southland. New Zealand Journal of Agricultural Research, 2003, 46, 239-253.	1.6	51
201	Analysis of Phosphorus in Sequentially Extracted Grassland Soils Using Solid State NMR. Communications in Soil Science and Plant Analysis, 2003, 34, 1623-1636.	1.4	15
202	The Effects of Soil Carbon on Phosphorus and Sediment Loss from Soil Trays by Overland Flow. Journal of Environmental Quality, 2003, 32, 207-214.	2.0	35
203	Influence of soil treading on sediment and phosphorus losses in overland flow. Soil Research, 2003, 41, 949.	1.1	57
204	Using Soil Phosphorus Profile Data to Assess Phosphorus Leaching Potential in Manured Soils. Soil Science Society of America Journal, 2003, 67, 215-224.	2.2	59
205	Uptake and Release of Phosphorus from Overland Flow in a Stream Environment. Journal of Environmental Quality, 2003, 32, 937-948.	2.0	52
206	Cattle treading and phosphorus and sediment loss in overland flow from grazed cropland. Soil Research, 2003, 41, 1521.	1.1	52
207	The Effects of Soil Carbon on Phosphorus and Sediment Loss from Soil Trays by Overland Flow. Journal of Environmental Quality, 2003, 32, 207.	2.0	15
208	Uptake and Release of Phosphorus from Overland Flow in a Stream Environment. Journal of Environmental Quality, 2003, 32, 937.	2.0	18
209	Using Soil Phosphorus Profile Data to Assess Phosphorus Leaching Potential in Manured Soils. Soil Science Society of America Journal, 2003, 67, 215.	2.2	18
210	Availability of residual phosphorus in high phosphorus soils. Communications in Soil Science and Plant Analysis, 2002, 33, 1235-1246.	1.4	20
211	The effect of soil acidity on potentially mobile phosphorus in a grassland soil. Journal of Agricultural Science, 2002, 139, 27-36.	1.3	38
212	Indicator To Predict the Movement of Phosphorus from Soil to Subsurface Flow. Environmental Science & Technology, 2002, 36, 1505-1509.	10.0	43
213	The potential for phosphorus loss in relation to nitrogen fertiliser application and cultivation. New Zealand Journal of Agricultural Research, 2002, 45, 245-253.	1.6	24
214	Soil phosphorus quantityâ€"intensity relationships to predict increased soil phosphorus loss to overland and subsurface flow. Chemosphere, 2002, 48, 679-687.	8.2	53
215	Analysis of Potentially Mobile Phosphorus in Arable Soils Using Solid State Nuclear Magnetic Resonance. Journal of Environmental Quality, 2002, 31, 450.	2.0	22
216	Analysis of Potentially Mobile Phosphorus in Arable Soils Using Solid State Nuclear Magnetic Resonance. Journal of Environmental Quality, 2002, 31, 450-456.	2.0	33

#	Article	IF	Citations
217	Phosphorus Transport in Overland Flow in Response to Position of Manure Application. Journal of Environmental Quality, 2002, 31, 217-227.	2.0	61
218	The effect of antecedent moisture conditions on sediment and phosphorus loss during overland flow: Mahantango Creek catchment, Pennsylvania, USA. Hydrological Processes, 2002, 16, 3037-3050.	2.6	57
219	Land use and flow regime effects on phosphorus chemical dynamics in the fluvial sediment of the Winooski River, Vermont. Ecological Engineering, 2002, 18, 477-487.	3.6	55
220	INTEGRATING PHOSPHORUS AND NITROGEN DECISION MANAGEMENT AT WATERSHED SCALES. Journal of the American Water Resources Association, 2002, 38, 479-491.	2.4	22
221	Effect of plot scale and an upslope phosphorus source on phosphorus loss in overland flow. Soil Use and Management, 2002, 18, 112-119.	4.9	17
222	Phosphorus Transport in Overland Flow in Response to Position of Manure Application. Journal of Environmental Quality, 2002, 31, 217.	2.0	14
223	Phosphorus transport in overland flow in response to position of manure application. Journal of Environmental Quality, 2002, 31, 217-27.	2.0	5
224	Analysis of potentially mobile phosphorus in arable soils using solid state nuclear magnetic resonance. Journal of Environmental Quality, 2002, 31, 450-6.	2.0	2
225	Soil phosphorus fractions in solution: influence of fertiliser and manure, filtration and method of determination. Chemosphere, 2001, 45, 737-748.	8.2	60
226	Phosphorus losses in subsurface flow before and after manure application to intensively farmed land. Science of the Total Environment, 2001, 278, 113-125.	8.0	123
227	INNOVATIVE MANAGEMENT OF AGRICULTURAL PHOSPHORUS TO PROTECT SOIL AND WATER RESOURCES. Communications in Soil Science and Plant Analysis, 2001, 32, 1071-1100.	1.4	54
228	Influence of soil constituents on soil phosphorus sorption and desorption. Communications in Soil Science and Plant Analysis, 2001, 32, 2531-2547.	1.4	56
229	Approximating Phosphorus Release from Soils to Surface Runoff and Subsurface Drainage. Journal of Environmental Quality, 2001, 30, 508-520.	2.0	408
230	Phosphorus Export from an Agricultural Watershed: Linking Source and Transport Mechanisms. Journal of Environmental Quality, 2001, 30, 1587-1595.	2.0	146
231	RELATIONSHIP BETWEEN SOIL TEST PHOSPHORUS AND PHOSPHORUS RELEASE TO SOLUTION. Soil Science, 2001, 166, 137-149.	0.9	119
232	Assessing Site Vulnerability to Phosphorus Loss in an Agricultural Watershed. Journal of Environmental Quality, 2001, 30, 2026-2036.	2.0	148
233	THE USE OF ISOTOPIC EXCHANGE KINETICS TO ASSESS PHOSPHORUS AVAILABILITY IN OVERLAND FLOW AND SUBSURFACE DRAINAGE WATERS. Soil Science, 2001, 166, 365-373.	0.9	29
234	Title is missing!. Nutrient Cycling in Agroecosystems, 2001, 59, 269-284.	2.2	160

#	Article	IF	Citations
235	Title is missing!. Aquatic Geochemistry, 2001, 7, 255-265.	1.3	68
236	Phosphorus loss from land to water: integrating agricultural and environmental management. Plant and Soil, 2001, 237, 287-307.	3.7	327
237	Variation of phosphorus loss from a small Catchment in south Devon, UK. Agriculture, Ecosystems and Environment, 2000, 79, 143-157.	5.3	42
238	Chemical nature and potential mobility of phosphorus in fertilized grassland soils. Nutrient Cycling in Agroecosystems, 2000, 57, 225-233.	2.2	56
239	Significance of analog instrumentation-design philosophy of replacement dump arrest unit at Pickering Station Candu reactor. IEEE Transactions on Nuclear Science, 1997, 44, 1081-1083.	2.0	2
240	Dissipation of imazapyr, flumetsulam and thifensulfuron in soil. Weed Research, 1997, 37, 381-389.	1.7	29
241	Fatal Hemorrhage Caused by Varicose Veins. American Journal of Forensic Medicine and Pathology, 1994, 15, 100-104.	0.8	23
242	Placental Transfer of 2,3,5-Triiodobenzoic Acid in the Rat. Journal of Pharmaceutical Sciences, 1971, 60, 695-699.	3.3	1
243	Chemistry, Cycling, and Potential Movement of Inorganic Phosphorus in Soils. Agronomy, 0, , 51-86.	0.2	36
244	OVERSEERÂ® nutrient budgets - moving towards on-farm resource accounting. Proceedings of the New Zealand Grassland Association, 0, , 191-194.	0.0	54
245	Water and soil quality in an Otago deer farm. Proceedings of the New Zealand Grassland Association, 0, , 187-193.	0.0	8
246	Monitoring the impact of farm practices on water quality in the Otago and Southland deer focus farms. Proceedings of the New Zealand Grassland Association, 0, , 183-188.	0.0	14
247	Phosphorus, nitrogen and sediment losses from irrigated cropland and pasture grazed by cattle and sheep. Proceedings of the New Zealand Grassland Association, 0, , 77-83.	0.0	9
248	Potential water quality impact and agronomic effectiveness of different phosphorus fertilisers under grazed dairying in Southland. Proceedings of the New Zealand Grassland Association, 0, , 225-229.	0.0	3
249	Opportunities to decrease the water quality impact of spring forage crops on dairy farms. Proceedings of the New Zealand Grassland Association, 0, , 45-50.	0.0	2
250	Using nitrogen fertiliser to decrease phosphorus loss from high phosphorus soils. Proceedings of the New Zealand Grassland Association, 0, , 121-125.	0.0	4
251	Deer and environment: OverseerÂ® upgrade. Proceedings of the New Zealand Grassland Association, 0, , 95-99.	0.0	3
252	Persistence of acetolactate synthase inhibiting herbicides in a Canterbury soil. New Zealand Plant Protection, 0, 49, 198-201.	0.3	1