

Andrew N Sharpley

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289
papers

22,665
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144
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303
ext. papers

24,476
ext. citations

3.3
avg, IF

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L-index

#	Paper	IF	Citations
289	NONPOINT POLLUTION OF SURFACE WATERS WITH PHOSPHORUS AND NITROGEN 1998 , 8, 559-568		3425
288	Managing Agricultural Phosphorus for Protection of Surface Waters: Issues and Options. <i>Journal of Environmental Quality</i> , 1994 , 23, 437-451	3.4	971
287	Phosphorus legacy: overcoming the effects of past management practices to mitigate future water quality impairment. <i>Journal of Environmental Quality</i> , 2013 , 42, 1308-26	3.4	543
286	Relating Extractable Soil Phosphorus to Phosphorus Losses in Runoff. <i>Soil Science Society of America Journal</i> , 1996 , 60, 855-859	2.5	461
285	Agricultural Phosphorus and Eutrophication: A Symposium Overview. <i>Journal of Environmental Quality</i> , 1998 , 27, 251-257	3.4	420
284	Phosphorus Forms in Manure and Compost and Their Release during Simulated Rainfall. <i>Journal of Environmental Quality</i> , 2000 , 29, 1462-1469	3.4	408
283	Sources of nutrient pollution to coastal waters in the United States: Implications for achieving coastal water quality goals. <i>Estuaries and Coasts</i> , 2002 , 25, 656-676		388
282	Dependence of Runoff Phosphorus on Extractable Soil Phosphorus. <i>Journal of Environmental Quality</i> , 1995 , 24, 920-926	3.4	373
281	Approximating phosphorus release from soils to surface runoff and subsurface drainage. <i>Journal of Environmental Quality</i> , 2001 , 30, 508-20	3.4	332
280	Agriculture. Sustainable biofuels redux. <i>Science</i> , 2008 , 322, 49-50	33.3	322
279	Relationship between Phosphorus Levels in Three Ultisols and Phosphorus Concentrations in Runoff. <i>Journal of Environmental Quality</i> , 1999 , 28, 170-175	3.4	307
278	Practical and Innovative Measures for the Control of Agricultural Phosphorus Losses to Water: An Overview. <i>Journal of Environmental Quality</i> , 2000 , 29, 1-9	3.4	289
277	Hydrologic Controls on Phosphorus Loss from Upland Agricultural Watersheds. <i>Journal of Environmental Quality</i> , 1998 , 27, 267-277	3.4	274
276	Phosphorus Management at the Watershed Scale: A Modification of the Phosphorus Index. <i>Journal of Environmental Quality</i> , 2000 , 29, 130-144	3.4	265
275	Phosphorus loss from land to water: integrating agricultural and environmental management. <i>Plant and Soil</i> , 2001 , 237, 287-307	4.2	262
274	The Transport of Bioavailable Phosphorus in Agricultural Runoff. <i>Journal of Environmental Quality</i> , 1992 , 21, 30-35	3.4	234
273	Effect of mineral and manure phosphorus sources on runoff phosphorus. <i>Journal of Environmental Quality</i> , 2002 , 31, 2026-33	3.4	214

272	Critical source area controls on water quality in an agricultural watershed located in the Chesapeake Basin. <i>Ecological Engineering</i> , 2000 , 14, 325-335	3.9	209
271	Phosphorus mitigation to control river eutrophication: murky waters, inconvenient truths, and "postnormal" science. <i>Journal of Environmental Quality</i> , 2013 , 42, 295-304	3.4	207
270	Depth of Surface Soil-runoff Interaction as Affected by Rainfall, Soil Slope, and Management. <i>Soil Science Society of America Journal</i> , 1985 , 49, 1010-1015	2.5	193
269	Terminology for Phosphorus Transfer. <i>Journal of Environmental Quality</i> , 2000 , 29, 10-15	3.4	192
268	Long-term accumulation and transport of anthropogenic phosphorus in three river basins. <i>Nature Geoscience</i> , 2016 , 9, 353-356	18.3	188
267	Surface runoff and tile drainage transport of phosphorus in the midwestern United States. <i>Journal of Environmental Quality</i> , 2015 , 44, 495-502	3.4	185
266	A Conceptual Approach for Integrating Phosphorus and Nitrogen Management at Watershed Scales. <i>Journal of Environmental Quality</i> , 2000 , 29, 158-166	3.4	185
265	Water quality remediation faces unprecedented challenges from "legacy phosphorus". <i>Environmental Science & Technology</i> , 2013 , 47, 8997-8	10.3	179
264	The Selection Erosion of Plant Nutrients in Runoff. <i>Soil Science Society of America Journal</i> , 1985 , 49, 1527-1534	2.5	177
263	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
262	Managing agricultural phosphorus for water quality protection: principles for progress. <i>Plant and Soil</i> , 2011 , 349, 169-182	4.2	174
261	Relating soil phosphorus to dissolved phosphorus in runoff: a single extraction coefficient for water quality modeling. <i>Journal of Environmental Quality</i> , 2005 , 34, 572-80	3.4	170
260	Phosphorus Movement in the Landscape. <i>Journal of Production Agriculture</i> , 1993 , 6, 492-500		165
259	Future agriculture with minimized phosphorus losses to waters: Research needs and direction. <i>Ambio</i> , 2015 , 44 Suppl 2, S163-79	6.5	162
258	Increased Soluble Phosphorus Loads to Lake Erie: Unintended Consequences of Conservation Practices?. <i>Journal of Environmental Quality</i> , 2017 , 46, 123-132	3.4	157
257	Phosphorus Research Strategies to Meet Agricultural and Environmental Challenges of the 21st Century. <i>Journal of Environmental Quality</i> , 2000 , 29, 176-181	3.4	157
256	Interlaboratory Comparison of a Standardized Phosphorus Adsorption Procedure. <i>Journal of Environmental Quality</i> , 1984 , 13, 591-595	3.4	155
255	Effect of broadcast manure on runoff phosphorus concentrations over successive rainfall events. <i>Journal of Environmental Quality</i> , 2003 , 32, 1072-81	3.4	147

254	Nitrogen and Phosphorus Fate from Long-Term Poultry Litter Applications to Oklahoma Soils. <i>Soil Science Society of America Journal</i> , 1993 , 57, 1131-1137	2.5	146
253	Measuring Water-Extractable Phosphorus in Manure as an Indicator of Phosphorus in Runoff. <i>Soil Science Society of America Journal</i> , 2002 , 66, 2009-2015	2.5	143
252	Flow and nutrient export patterns for an agricultural hill-land watershed. <i>Water Resources Research</i> , 1996 , 32, 1795-1804	5.4	141
251	Integrating legacy soil phosphorus into sustainable nutrient management strategies for future food, bioenergy and water security. <i>Nutrient Cycling in Agroecosystems</i> , 2016 , 104, 393-412	3.3	140
250	A Simplified Soil and Plant Phosphorus Model: I. Documentation. <i>Soil Science Society of America Journal</i> , 1984 , 48, 800-805	2.5	134
249	The Enrichment of Soil Phosphorus in Runoff Sediments. <i>Journal of Environmental Quality</i> , 1980 , 9, 521-526	3.4	134
248	Implementing agricultural phosphorus science and management to combat eutrophication. <i>Ambio</i> , 2015 , 44 Suppl 2, S297-310	6.5	133
247	Soil mixing to decrease surface stratification of phosphorus in manured soils. <i>Journal of Environmental Quality</i> , 2003 , 32, 1375-84	3.4	132
246	Freeze-thaw effects on phosphorus loss in runoff from manured and catch-cropped soils. <i>Journal of Environmental Quality</i> , 2005 , 34, 2301-9	3.4	131
245	An Innovative Approach to Estimate Bioavailable Phosphorus in Agricultural Runoff Using Iron Oxide-Impregnated Paper. <i>Journal of Environmental Quality</i> , 1993 , 22, 597-601	3.4	131
244	The depth of rainfall-runoff-soil interaction as determined by ³² P. <i>Water Resources Research</i> , 1981 , 17, 969-974	5.4	129
243	Role of rainfall intensity and hydrology in nutrient transport via surface runoff. <i>Journal of Environmental Quality</i> , 2006 , 35, 1248-59	3.4	128
242	Sustainable phosphorus management and the need for a long-term perspective: the legacy hypothesis. <i>Environmental Science & Technology</i> , 2014 , 48, 8417-9	10.3	126
241	Soil controls of phosphorus in runoff: Management barriers and opportunities. <i>Canadian Journal of Soil Science</i> , 2011 , 91, 329-338	1.4	126
240	Phosphorus Cycling in Unfertilized and Fertilized Agricultural Soils. <i>Soil Science Society of America Journal</i> , 1985 , 49, 905-911	2.5	126
239	Rainfall Frequency and Nitrogen and Phosphorus Runoff from Soil Amended with Poultry Litter. <i>Journal of Environmental Quality</i> , 1997 , 26, 1127-1132	3.4	122
238	Assessing site vulnerability to phosphorus loss in an agricultural watershed. <i>Journal of Environmental Quality</i> , 2001 , 30, 2026-36	3.4	121
237	Phosphorus loss from an agricultural watershed as a function of storm size. <i>Journal of Environmental Quality</i> , 2008 , 37, 362-8	3.4	118

236	Phosphorus export from an agricultural watershed: linking source and transport mechanisms. <i>Journal of Environmental Quality</i> , 2001 , 30, 1587-95	3.4	117
235	Forms of Phosphorus in Soil Receiving Cattle Feedlot Waste. <i>Journal of Environmental Quality</i> , 1984 , 13, 211-215	3.4	117
234	The environmentally-sound management of agricultural phosphorus. <i>Fertilizer Research</i> , 1994 , 39, 133-146		115
233	Identifying Sites Vulnerable to Phosphorus Loss in Agricultural Runoff. <i>Journal of Environmental Quality</i> , 1995 , 24, 947-951	3.4	114
232	Wheat tillage and water quality in the Southern plains. <i>Soil and Tillage Research</i> , 1994 , 30, 33-48	6.5	114
231	The new gold rush: fueling ethanol production while protecting water quality. <i>Journal of Environmental Quality</i> , 2008 , 37, 318-24	3.4	109
230	Connecting phosphorus loss from agricultural landscapes to surface water quality. <i>Chemistry and Ecology</i> , 2004 , 20, 1-40	2.3	108
229	Application of manure to no-till soils: phosphorus losses by sub-surface and surface pathways. <i>Nutrient Cycling in Agroecosystems</i> , 2009 , 84, 215-227	3.3	105
228	Effect of rainfall simulator and plot scale on overland flow and phosphorus transport. <i>Journal of Environmental Quality</i> , 2003 , 32, 2172-9	3.4	104
227	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
226	Survey of Water-Extractable Phosphorus in Livestock Manures. <i>Soil Science Society of America Journal</i> , 2005 , 69, 701-708	2.5	101
225	A PORTABLE RAINFALL SIMULATOR FOR PLOT-SCALE RUNOFF STUDIES. <i>Applied Engineering in Agriculture</i> , 2002 , 18,	0.8	101
224	RELATIONSHIP BETWEEN SOIL TEST PHOSPHORUS AND PHOSPHORUS RELEASE TO SOLUTION. <i>Soil Science</i> , 2001 , 166, 137-149	0.9	101
223	Development of a phosphorus index for pastures fertilized with poultry litter--factors affecting phosphorus runoff. <i>Journal of Environmental Quality</i> , 2004 , 33, 2183-91	3.4	100
222	The Measurement of Bioavailable Phosphorus in Agricultural Runoff. <i>Journal of Environmental Quality</i> , 1991 , 20, 235-238	3.4	99
221	The Pivotal Role of Phosphorus in a Resilient Water-Energy-Food Security Nexus. <i>Journal of Environmental Quality</i> , 2015 , 44, 1049-62	3.4	95
220	Evaluating the success of phosphorus management from field to watershed. <i>Journal of Environmental Quality</i> , 2009 , 38, 1981-8	3.4	95
219	A Simplified Soil and Plant Phosphorus Model: II. Prediction of Labile, Organic, and Sorbed Phosphorus. <i>Soil Science Society of America Journal</i> , 1984 , 48, 805-809	2.5	93

218	Estimating soil phosphorus sorption saturation from Mehlich-3 data. <i>Communications in Soil Science and Plant Analysis</i> , 2002 , 33, 1825-1839	1.5	92
217	Rainfall intensity and phosphorus source effects on phosphorus transport in surface runoff from soil trays. <i>Science of the Total Environment</i> , 2007 , 373, 334-43	10.2	87
216	Reducing Soil Phosphorus Solubility with Coal Combustion By-Products. <i>Journal of Environmental Quality</i> , 1998 , 27, 111-118	3.4	87
215	Sources of phosphorus exported from an agricultural watershed in Pennsylvania. <i>Agricultural Water Management</i> , 1999 , 41, 77-89	5.9	83
214	Evaluation of phosphorus transport in surface runoff from packed soil boxes. <i>Journal of Environmental Quality</i> , 2004 , 33, 1413-23	3.4	81
213	Availability of Residual Phosphorus in Manured Soils. <i>Soil Science Society of America Journal</i> , 1996 , 60, 1459-1466	2.5	81
212	Within-river phosphorus retention: accounting for a missing piece in the watershed phosphorus puzzle. <i>Environmental Science & Technology</i> , 2012 , 46, 13284-92	10.3	80
211	Field Measurement of Denitrification: III. Rates During Irrigation Cycles. <i>Soil Science Society of America Journal</i> , 1982 , 46, 289-296	2.5	80
210	Conservation practice effectiveness and adoption: unintended consequences and implications for sustainable phosphorus management. <i>Nutrient Cycling in Agroecosystems</i> , 2016 , 104, 373-392	3.3	79
209	The Sorption of Soluble Phosphorus by Soil Material during Transport in Runoff from Cropped and Grassed Watersheds. <i>Journal of Environmental Quality</i> , 1981 , 10, 211-215	3.4	78
208	Environmental impact of agricultural nitrogen and phosphorus use. <i>Journal of Agricultural and Food Chemistry</i> , 1987 , 35, 812-817	5.7	76
207	Selection of a water-extractable phosphorus test for manures and biosolids as an indicator of runoff loss potential. <i>Journal of Environmental Quality</i> , 2007 , 36, 1357-67	3.4	74
206	Soil Phosphorus Forms Extracted by Soil Tests as a Function of Pedogenesis. <i>Soil Science Society of America Journal</i> , 1987 , 51, 362	2.5	73
205	A model for phosphorus transformation and runoff loss for surface-applied manures. <i>Journal of Environmental Quality</i> , 2007 , 36, 324-32	3.4	71
204	The Contribution of Phosphorus Leached from Crop Canopy to Losses in Surface Runoff. <i>Journal of Environmental Quality</i> , 1981 , 10, 160-165	3.4	71
203	Phosphorus Speciation and Sorption-Desorption Characteristics in Heavily Manured Soils. <i>Soil Science Society of America Journal</i> , 2009 , 73, 93-101	2.5	71
202	Critical source area management of agricultural phosphorus: experiences, challenges and opportunities. <i>Water Science and Technology</i> , 2011 , 64, 945-52	2.2	70
201	Prediction of Soluble Phosphorus Transport in Agricultural Runoff. <i>Journal of Environmental Quality</i> , 1989 , 18, 313-316	3.4	70

200	Effect of Soil Properties on the Kinetics of Phosphorus Desorption. <i>Soil Science Society of America Journal</i> , 1983 , 47, 462-467	2.5	68
199	The Release of Soil Phosphorus to Runoff in Relation to the Kinetics of Desorption. <i>Journal of Environmental Quality</i> , 1981 , 10, 386-391	3.4	67
198	Effectiveness of Coal Combustion By-Products in Controlling Phosphorus Export from Soils. <i>Journal of Environmental Quality</i> , 2000 , 29, 1239-1244	3.4	66
197	Managing agricultural phosphorus to minimize water quality impacts. <i>Scientia Agricola</i> , 2016 , 73, 1-8	2.5	65
196	Managing agricultural phosphorus for water quality: lessons from the USA and China. <i>Journal of Environmental Sciences</i> , 2014 , 26, 1770-82	6.4	63
195	A Simple Method to Predict Dissolved Phosphorus in Runoff from Surface-Applied Manures. <i>Journal of Environmental Quality</i> , 2004 , 33, 749-756	3.4	63
194	Soil Phosphorus Extracted By Iron-Aluminum-Oxide-Impregnated Filter Paper. <i>Soil Science Society of America Journal</i> , 1991 , 55, 1038-1041	2.5	63
193	USING SOIL PHOSPHORUS BEHAVIOR TO IDENTIFY ENVIRONMENTAL THRESHOLDS. <i>Soil Science</i> , 2000 , 165, 943-950	0.9	63
192	Fractionation of Inorganic and Organic Phosphorus in Virgin and Cultivated Soils. <i>Soil Science Society of America Journal</i> , 1985 , 49, 127-130	2.5	61
191	Surface Runoff along Two Agricultural Hillslopes with Contrasting Soils. <i>Soil Science Society of America Journal</i> , 2004 , 68, 914-923	2.5	60
190	Relationship Between Soil Potassium Forms and Mineralogy. <i>Soil Science Society of America Journal</i> , 1989 , 53, 1023-1028	2.5	60
189	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	60
188	Phosphorus indices: why we need to take stock of how we are doing. <i>Journal of Environmental Quality</i> , 2012 , 41, 1711-9	3.4	58
187	Mineralization and Leaching of Phosphorus from Soil Incubated with Surface-Applied and Incorporated Crop Residue. <i>Journal of Environmental Quality</i> , 1989 , 18, 101-105	3.4	58
186	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
185	Assessing phosphorus bioavailability in agricultural soils and runoff. <i>Fertilizer Research</i> , 1993 , 36, 259-272		57
184	Soil Nitrogen Mineralization in the Presence of Surface and Incorporated Crop Residues. <i>Agronomy Journal</i> , 1990 , 82, 112-116	2.2	57
183	Evaluation of the phosphorus source component in the phosphorus index for pastures. <i>Journal of Environmental Quality</i> , 2004 , 33, 2192-200	3.4	54

182	Animal-based agriculture, phosphorus management and water quality in Brazil: options for the future. <i>Scientia Agricola</i> , 2006 , 63, 194-209	2.5	53
181	ASSESSING THE EFFICACY OF ALTERNATIVE PHOSPHORUS SORBING SOIL AMENDMENTS. <i>Soil Science</i> , 2002 , 167, 539-547	0.9	52
180	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
179	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
178	Modeling Soil and Plant Phosphorus Dynamics in Calcareous and Highly Weathered Soils. <i>Soil Science Society of America Journal</i> , 1989 , 53, 153-158	2.5	51
177	COMPARISON OF MEASURED AND SIMULATED PHOSPHORUS LOSSES WITH INDEXED SITE VULNERABILITY. <i>Transactions of the American Society of Agricultural Engineers</i> , 2005 , 48, 557-565		50
176	The conceptual basis for a decision support framework to assess the risk of phosphorus loss at the field scale across Europe. <i>Journal of Plant Nutrition and Soil Science</i> , 2003 , 166, 447-458	2.3	47
175	Response of Stream Macroinvertebrates to Agricultural Land Cover in a Small Watershed. <i>Journal of Freshwater Ecology</i> , 2002 , 17, 109-119	1.4	46
174	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
173	Interlaboratory comparison of soil phosphorus extracted by various soil test methods. <i>Communications in Soil Science and Plant Analysis</i> , 2001 , 32, 2325-2345	1.5	44
172	Bioavailable phosphorus dynamics in agricultural soils and effects on water quality. <i>Geoderma</i> , 1995 , 67, 1-15	6.7	44
171	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
170	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
169	Water Quality Impacts Associated with Sorghum Culture in the Southern Plains. <i>Journal of Environmental Quality</i> , 1991 , 20, 239-244	3.4	43
168	Effect of Soil Slope and Rainfall Characteristics on Phosphorus in Runoff. <i>Journal of Environmental Quality</i> , 1982 , 11, 9-13	3.4	43
167	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
166	Water Quality Impacts Associated with Wheat Culture in the Southern Plains. <i>Journal of Environmental Quality</i> , 1991 , 20, 244-249	3.4	42
165	PHOSPHORUS LEACHING THROUGH INTACT SOIL COLUMNS BEFORE AND AFTER POULTRY MANURE APPLICATION. <i>Soil Science</i> , 2005 , 170, 153-166	0.9	41

164	Phosphorus retention and remobilization along hydrological pathways in karst terrain. <i>Environmental Science & Technology</i> , 2014 , 48, 4860-8	10.3	40
163	The effect of periphyton stoichiometry and light on biological phosphorus immobilization and release in streams. <i>Limnology</i> , 2012 , 13, 97-106	1.7	39
162	Identifying critical sources of phosphorus export from agricultural watersheds. <i>Nutrient Cycling in Agroecosystems</i> , 2001 , 59, 29-38	3.3	38
161	Indicator to predict the movement of phosphorus from soil to subsurface flow. <i>Environmental Science & Technology</i> , 2002 , 36, 1505-9	10.3	38
160	Hypoxia in the Northern Gulf of Mexico 2010 ,		38
159	Development of a Water-Extractable Phosphorus Test for Manure. <i>Soil Science Society of America Journal</i> , 2005 , 69, 695-700	2.5	37
158	Use of Laboratory Extraction Data to Predict Losses of Dissolved Inorganic Phosphate in Surface Runoff and Tile Drainage. <i>Journal of Environmental Quality</i> , 1977 , 6, 33-36	3.4	35
157	Distribution of Phosphorus Forms in Virgin and Cultivated Soils and Potential Erosion Losses. <i>Soil Science Society of America Journal</i> , 1983 , 47, 581-586	2.5	34
156	Modeling Phosphorus Transfer between Labile and Nonlabile Soil Pools. <i>Soil Science Society of America Journal</i> , 2006 , 70, 736-743	2.5	33
155	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
154	Differential Availability of Manure and Inorganic Sources of Phosphorus in Soil. <i>Soil Science Society of America Journal</i> , 1997 , 61, 1503-1508	2.5	32
153	Effect of amending high phosphorus soils with flue-gas desulfurization gypsum on plant uptake and soil fractions of phosphorus. <i>Nutrient Cycling in Agroecosystems</i> , 2003 , 67, 21-29	3.3	32
152	Ion-Sink Phosphorus Extraction Methods Applied on 24 Soils from the Continental USA. <i>Soil Science Society of America Journal</i> , 2005 , 69, 511-521	2.5	32
151	Reducing phosphorus export from croplands with FBC fly ash and FGD gypsum. <i>Fuel</i> , 1999 , 78, 175-178	7.1	32
150	Release of Nitrogen and Phosphorus from Poultry Litter. <i>Journal of Environmental Quality</i> , 1995 , 24, 62-67	3.4	32
149	Reaction in Soil of Phosphorus Released from Poultry Litter. <i>Soil Science Society of America Journal</i> , 1996 , 60, 1583-1588	2.5	32
148	Agricultural Chemical Discharge in Surface Water Runoff. <i>Journal of Environmental Quality</i> , 1993 , 22, 474-480	3.4	32
147	Engineering solutions for food-energy-water systems: it is more than engineering. <i>Journal of Environmental Studies and Sciences</i> , 2016 , 6, 172-182	0.9	32

146	Hydrology of small field plots used to study phosphorus runoff under simulated rainfall. <i>Journal of Environmental Quality</i> , 2007 , 36, 1833-42	3.4	31
145	Estimating Dissolved Phosphorus Concentrations in Runoff from Three Physiographic Regions of Virginia. <i>Soil Science Society of America Journal</i> , 2006 , 70, 1967-1974	2.5	31
144	Source-related transport of phosphorus in surface runoff. <i>Journal of Environmental Quality</i> , 2006 , 35, 2229-35	3.4	31
143	Celebrating the 350th Anniversary of Phosphorus Discovery: A Conundrum of Deficiency and Excess. <i>Journal of Environmental Quality</i> , 2018 , 47, 774-777	3.4	31
142	A review of regulations and guidelines related to winter manure application. <i>Ambio</i> , 2018 , 47, 657-670	6.5	30
141	Production and feeding strategies for phosphorus management on dairy farms. <i>Journal of Dairy Science</i> , 2002 , 85, 3142-53	4	30
140	Integrating contributing areas and indexing phosphorus loss from agricultural watersheds. <i>Journal of Environmental Quality</i> , 2008 , 37, 1488-96	3.4	29
139	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
138	Understanding and managing the re-eutrophication of Lake Erie: Knowledge gaps and research priorities. <i>Freshwater Science</i> , 2019 , 38, 675-691	2	28
137	Evaluation of Phosphorus Site Assessment Tools: Lessons from the USA. <i>Journal of Environmental Quality</i> , 2017 , 46, 1250-1256	3.4	28
136	Estimating Phosphorus in Agricultural Runoff Available to Several Algae Using Iron-Oxide Paper Strips. <i>Journal of Environmental Quality</i> , 1993 , 22, 678-680	3.4	28
135	Effect of soil pH on cation and anion solubility. <i>Communications in Soil Science and Plant Analysis</i> , 1991 , 22, 827-841	1.5	28
134	An Improved Soil-Sampling Procedure for the Prediction of Dissolved Inorganic Phosphate Concentrations in Surface Runoff from Pasture. <i>Journal of Environmental Quality</i> , 1978 , 7, 455-456	3.4	28
133	A coupled model system to optimize the best management practices for nonpoint source pollution control. <i>Journal of Cleaner Production</i> , 2019 , 220, 581-592	10.3	28
132	Estimating source coefficients for phosphorus site indices. <i>Journal of Environmental Quality</i> , 2006 , 35, 2195-201	3.4	27
131	Runoff transport of faecal coliforms and phosphorus released from manure in grass buffer conditions. <i>Letters in Applied Microbiology</i> , 2005 , 41, 230-4	2.9	27
130	Effect of Extractable Soil Surface Phosphorus on Runoff Water Quality. <i>Transactions of the American Society of Agricultural Engineers</i> , 1993 , 36, 1079-1085		27
129	Change point analysis of phosphorus trends in the Illinois River (Oklahoma) demonstrates the effects of watershed management. <i>Journal of Environmental Quality</i> , 2011 , 40, 1249-56	3.4	26

128	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
127	Prediction of Phosphorus Losses in Runoff from Southern Plains Watersheds. <i>Journal of Environmental Quality</i> , 1982 , 11, 247-251	3.4	26
126	Prediction of Water-Extractable Phosphorus Content of Soil Following a Phosphorus Addition. <i>Journal of Environmental Quality</i> , 1982 , 11, 166-170	3.4	26
125	Quantifying phosphorus retention and release in rivers and watersheds using extended end-member mixing analysis (E-EMMA). <i>Journal of Environmental Quality</i> , 2011 , 40, 492-504	3.4	25
124	Disposition of Fertilizer Phosphorus Applied to Winter Wheat. <i>Soil Science Society of America Journal</i> , 1986 , 50, 953-958	2.5	25
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