Adrian Collins

List of Publications by Year
in descending order

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219 papers	10,716 citations	28274 55 h-index	40979 93 g-index
226 all docs	226 docs citations	226 times ranked	7432 citing authors

#	Article	IF	Citations
1	(Un)willingness to contribute financially towards advice surrounding diffuse water pollution: the perspectives of farmers and advisors. Journal of Agricultural Education and Extension, 2023, 29, 327-350.	2.2	3
2	Distribution of rare earth elements in soils of contrasting geological and pedological settings to support human health assessment and environmental policies. Environmental Geochemistry and Health, 2022, 44, 861-872.	3.4	8
3	Sediment detachment by raindrop impact on grassland and arable fields: an investigation of controls. Journal of Soils and Sediments, 2022, 22, 692-703.	3.0	1
4	Quantifying the provenance of dune sediments in the Taklimakan Desert using machine learning, multidimensional scaling and sediment source fingerprinting. Catena, 2022, 210, 105902.	5.0	21
5	HighÂfrequency un-mixing of soil samples using a submerged spectrophotometer in a laboratory settingâ€"implications for sediment fingerprinting. Journal of Soils and Sediments, 2022, 22, 348-364.	3.0	13
6	Natural and anthropogenic impacts on the geochemical composition and metal speciation of fine sediment in a glacier-fed Canadian river basin. Journal of Soils and Sediments, 2022, 22, 365-380.	3.0	2
7	Tackling unintended consequences of grazing livestock farming: Multi-scale assessment of co-benefits and trade-offs for water pollution mitigation scenarios. Journal of Cleaner Production, 2022, 336, 130449.	9.3	8
8	The efficiency of elemental geochemistry and weathering indices as tracers in aeolian sediment provenance fingerprinting. Catena, 2022, 210, 105932.	5.0	3
9	Diffuse water pollution during recent extreme wet-weather in the UK: Environmental damage costs and insight into the future?. Journal of Cleaner Production, 2022, 338, 130633.	9.3	8
10	Coupled steroid and phosphorus leaching from cattle slurry at lysimeter scale. Journal of Contaminant Hydrology, 2022, 247, 103979.	3.3	1
11	Prolonged heavy rainfall and land use drive catchment sediment source dynamics: Appraisal using multiple biotracers. Water Research, 2022, 216, 118348.	11.3	13
12	Exploring the effects of land management change on productivity, carbon and nutrient balance: Application of an Ensemble Modelling Approach to the upper River Taw observatory, UK. Science of the Total Environment, 2022, 824, 153824.	8.0	5
13	A rapid and inexpensive colour-based sediment tracing method incorporating hydrogen peroxide sample treatment as an alternative to quantitative source fingerprinting for catchment management. Journal of Environmental Management, 2022, 311, 114780.	7.8	10
14	Soil methane (CH₄) fluxes in cropland with permanent pasture and riparian buffer strips with different vegetation[#]. Journal of Plant Nutrition and Soil Science, 2022, 185, 132-144.	1.9	5
15	Soil N2O and CH4 emissions from fodder maize production with and without riparian buffer strips of differing vegetation. Plant and Soil, 2022, 477, 297-318.	3.7	5
16	Riparian buffer strips influence nitrogen losses as nitrous oxide and leached N from upslope permanent pasture. Agriculture, Ecosystems and Environment, 2022, 336, 108031.	5.3	3
17	Separating natural from human enhanced methane emissions in headwater streams. Nature Communications, 2022, 13, .	12.8	6
18	Assessing catchment scale water quality of agri-food systems and the scope for reducing unintended consequences using spatial life cycle assessment (LCA). Journal of Environmental Management, 2022, 318, 115563.	7.8	4

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19	Soil loss on the arable lands of the forest-steppe and steppe zones of European Russia and Siberia during the period of intensive agriculture. Geoderma, 2021, 381, 114678.	5.1	28
20	Hillslope and groundwater contributions to streamflow in a Rocky Mountain watershed underlain by glacial till and fractured sedimentary bedrock. Hydrology and Earth System Sciences, 2021, 25, 237-255.	4.9	7
21	Current advisory interventions for grazing ruminant farming cannot close exceedance of modern background sediment loss â€“ Assessment using an instrumented farm platform and modelled scaling out. Environmental Science and Policy, 2021, 116, 114-127.	4.9	15
22	Using the Boruta algorithm and deep learning models for mapping land susceptibility to atmospheric dust emissions in Iran. Aeolian Research, 2021, 50, 100682.	2.7	37
23	Does cattle and sheep grazing under best management significantly elevate sediment losses? Evidence from the North Wyke Farm Platform, UK. Journal of Soils and Sediments, 2021, 21, 1875-1889.	3.0	6
24	Spatial modelling of soil salinity: deep or shallow learning models?. Environmental Science and Pollution Research, 2021, 28, 39432-39450.	5.3	17
25	Predicting land susceptibility to atmospheric dust emissions in central Iran by combining integrated data mining and a regional climate model. Atmospheric Pollution Research, 2021, 12, 172-187.	3.8	18
26	Using different size fractions to source fingerprint fine-grained channel bed sediment in a large drainage basin in Iran. Catena, 2021, 200, 105173.	5.0	5
27	Assessment of the interpretability of data mining for the spatial modelling of water erosion using game theory. Catena, 2021, 200, 105178.	5.0	37
28	Accumulation of trace metals in freshwater macroinvertebrates across metal contamination gradients. Environmental Pollution, 2021, 276, 116721.	7.5	7
29	An exploratory study on the use of different composite magnetic and colour fingerprints in aeolian sediment provenance fingerprinting. Catena, 2021, 200, 105182.	5.0	15
30	Elucidating intra-storm variations in suspended sediment sources using a Bayesian fingerprinting approach. Journal of Hydrology, 2021, 596, 126115.	5.4	16
31	Dynamics of fluvial hydro-sedimentological, nutrient, particulate organic matter and effective particle size responses during the U.K. extreme wet winter of 2019â€“2020. Science of the Total Environment, 2021, 774, 145722.	8.0	5
32	Sediment source apportionment using optical property composite signatures in a rural catchment, Brazil. Catena, 2021, 202, 105208.	5.0	11
33	Insights into bulk stable isotope alteration during sediment redistribution to edge-of-field: impact on sediment source apportionment. Biogeochemistry, 2021, 155, 263-281.	3.5	2
34	Deposition and erosion behaviour of cohesive sediments in the upper River Taw observatory, southwest UK: Implications for management and modelling. Journal of Hydrology, 2021, 598, 126145.	5.4	3
35	Novel approaches to investigating spatial variability in channel bank total phosphorus at the catchment scale. Catena, 2021, 202, 105223.	5.0	10
36	A New Framework for Modelling Fine Sediment Transport in Rivers Includes Flocculation to Inform Reservoir Management in Wildfire Impacted Watersheds. Water (Switzerland), 2021, 13, 2319.	2.7	10

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37	Can agri-environment initiatives control sediment loss in the context of extreme winter rainfall?. Journal of Cleaner Production, 2021, 311, 127593.	9.3	11
38	Elucidating suspended sediment dynamics in a glacierized catchment after an exceptional erosion event: The Djankuat catchment, Caucasus Mountains, Russia. Catena, 2021, 203, 105285.	5.0	10
39	Integrated modelling for mapping spatial sources of dust in central Asia - An important dust source in the global atmospheric system. Atmospheric Pollution Research, 2021, 12, 101173.	3.8	31
40	The potential for colour to provide a robust alternative to high-cost sediment source fingerprinting: Assessment using eight catchments in England. Science of the Total Environment, 2021, 792, 148416.	8.0	11
41	The scope for a system-based approach to determine fine sediment targets for chalk streams. Catena, 2021, 206, 105541.	5.0	7
42	Desertification of Iran in the early twenty-first century: assessment using climate and vegetation indices. Scientific Reports, 2021, 11, 20548.	3.3	20
43	Anthropogenic and Climate-Exacerbated Landscape Disturbances Converge to Alter Phosphorus Bioavailability in an Oligotrophic River. Water (Switzerland), 2021, 13, 3151.	2.7	4
44	Spatial mapping of the provenance of storm dust: Application of data mining and ensemble modelling. Atmospheric Research, 2020, 233, 104716.	4.1	76
45	Using the Budyko hypothesis for detecting and attributing changes in runoff to climate and vegetation change in the soft sandstone area of the middle Yellow River basin, China. Science of the Total Environment, 2020, 703, 135588.	8.0	44
46	Sediment loss in response to scheduled pasture ploughing and reseeding: The importance of soil moisture content in controlling risk. Soil and Tillage Research, 2020, 204, 104746.	5.6	14
47	Comparing Extraction Methods for Biomarker Steroid Characterisation from Soil and Slurry. Water, Air, and Soil Pollution, 2020, 231, 524.	2.4	5
48	Using catchment characteristics to model seasonality of dissolved organic carbon fluxes in semi-arid mountainous headwaters. Environmental Monitoring and Assessment, 2020, 192, 674.	2.7	0
49	Mapping wind erosion hazard with regression-based machine learning algorithms. Scientific Reports, 2020, 10, 20494.	3.3	35
50	A new integrated data mining model to map spatial variation in the susceptibility of land to act as a source of aeolian dust. Environmental Science and Pollution Research, 2020, 27, 42022-42039.	5.3	26
51	Source fingerprinting loess deposits in Central Asia using elemental geochemistry with Bayesian and GLUE models. Catena, 2020, 194, 104808.	5.0	39
52	Sediment sources, soil loss rates and sediment yields in a Karst plateau catchment in Southwest China. Agriculture, Ecosystems and Environment, 2020, 304, 107114.	5.3	22
53	Sediment source fingerprinting: benchmarking recent outputs, remaining challenges and emerging themes. Journal of Soils and Sediments, 2020, 20, 4160-4193.	3.0	124
54	A comparison of machine learning models for the mapping of groundwater spring potential. Environmental Earth Sciences, 2020, 79, 1.	2.7	29

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55	Mapping the spatial sources of atmospheric dust using GLUE and Monte Carlo simulation. Science of the Total Environment, 2020, 723, 138090.	8.0	44
56	Storm dust source fingerprinting for different particle size fractions using colour and magnetic susceptibility and a Bayesian un-mixing model. Environmental Science and Pollution Research, 2020, 27, 31578-31594.	5.3	11
57	Gully erosion spatial modelling: Role of machine learning algorithms in selection of the best controlling factors and modelling process. Geoscience Frontiers, 2020, 11, 2207-2219.	8.4	76
58	Experimental Investigation of Erosion Characteristics of Fine-Grained Cohesive Sediments. Water (Switzerland), 2020, 12, 1511.	2.7	7
59	The representation of sediment source group tracer distributions in Monte Carlo uncertainty routines for fingerprinting: An analysis of accuracy and precision using data for four contrasting catchments. Hydrological Processes, 2020, 34, 2381-2400.	2.6	5
60	Optimizing farmyard manure and cattle slurry applications for intensively managed grasslands based on UK-DNDC model simulations. Science of the Total Environment, 2020, 714, 136672.	8.0	17
61	Sensitivity of source apportionment predicted by a Bayesian tracer mixing model to the inclusion of a sediment connectivity index as an informative prior: Illustration using the Kharka catchment (Nepal). Science of the Total Environment, 2020, 713, 136703.	8.0	20
62	Dry cropland changes in China's Three Gorges Reservoir Region during the period 1990 to 2015. Journal of Mountain Science, 2020, 17, 516-527.	2.0	3
63	A novel ensemble computational intelligence approach for the spatial prediction of land subsidence susceptibility. Science of the Total Environment, 2020, 726, 138595.	8.0	71
64	Catchment-wide variations and biogeochemical time lags in soil fatty acid carbon isotope composition for different land uses: Implications for sediment source classification. Organic Geochemistry, 2020, 146, 104048.	1.8	11
65	Field scale temporal and spatial variability of Î´13C, Î´15N, TC and TN soil properties: Implications for sediment source tracing. Geoderma, 2019, 333, 108-122.	5.1	29
66	Fingerprinting sub-basin spatial suspended sediment sources by combining geochemical tracers and weathering indices. Environmental Science and Pollution Research, 2019, 26, 28401-28414.	5.3	18
67	A palaeoenvironmental study of particle sizeâ€specific connectivityâ€"New insights and implications from the West Sussex Rother Catchment, United Kingdom. River Research and Applications, 2019, 35, 1192-1202.	1.7	8
68	Fingerprinting sub-basin spatial sediment sources in a large Iranian catchment under dry-land cultivation and rangeland farming: Combining geochemical tracers and weathering indices. Journal of Hydrology: Regional Studies, 2019, 24, 100613.	2.4	6
69	Fingerprinting the sources of water-mobilized sediment threatening agricultural and water resource sustainability: Progress, challenges and prospects in China. Science China Earth Sciences, 2019, 62, 2017-2030.	5.2	22
70	Thorium content in soil, water and sediment samples and fluvial sediment-associated transport in a catchment system with a semiarid-coastal interface, Brazil. Environmental Science and Pollution Research, 2019, 26, 33532-33540.	5.3	8
71	A soil quality index for evaluation of degradation under land use and soil erosion categories in a small mountainous catchment, Iran. Journal of Mountain Science, 2019, 16, 2577-2590.	2.0	33
72	Field-based determination of controls on runoff and fine sediment generation from lowland grazing livestock fields. Journal of Environmental Management, 2019, 249, 109365.	7.8	25

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73	A Generic Approach for Live Prediction of the Risk of Agricultural Field Runoff and Delivery to Watercourses: Linking Parsimonious Soil-Water-Connectivity Models With Live Weather Data Apis in Decision Tools. Frontiers in Sustainable Food Systems, 2019, 3, .	3.9	1
74	Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	474
75	Monte Carlo fingerprinting of the terrestrial sources of different particle size fractions of coastal sediment deposits using geochemical tracers: some lessons for the user community. Environmental Science and Pollution Research, 2019, 26, 13560-13579.	5.3	26
76	Fingerprinting the contribution of quarrying to fineâ€grained bed sediment in a mountainous catchment, Iran. River Research and Applications, 2019, 35, 290-300.	1.7	14
77	Investigating the importance of recreational roads as a sediment source in a mountainous catchment using a fingerprinting procedure with different multivariate statistical techniques and a Bayesian un-mixing model. Journal of Hydrology, 2019, 569, 506-518.	5.4	28
78	The sources and dynamics of fine-grained sediment degrading the Freshwater Pearl Mussel (Margaritifera margaritifera) beds of the River Torridge, Devon, UK. Science of the Total Environment, 2019, 657, 420-434.	8.0	12
79	Determining the sources of nutrient flux to water in headwater catchments: Examining the speciation balance to inform the targeting of mitigation measures. Science of the Total Environment, 2019, 648, 1179-1200.	8.0	31
80	Decision support framework to identify lakes that are likely to meet water quality targets if external inputs of phosphorus from agriculture are reduced. , 2019, 38, 489-501.		2
81	An analysis of potential controls on long-term 137Cs accumulation in the sediments of UK lakes. Journal of Paleolimnology, 2018, 60, 1-30.	1.6	8
82	The stable oxygen isotope ratio of resin extractable phosphate derived from fresh cattle faeces. Rapid Communications in Mass Spectrometry, 2018, 32, 703-710.	1.5	6
83	Roles of instrumented farm-scale trials in trade-off assessments of pasture-based ruminant production systems. Animal, 2018, 12, 1766-1776.	3.3	33
84	Sedimentary chronology reinterpreted from Changshou Lake of the Three Gorges Reservoir Area reveals natural and anthropogenic controls on sediment production. Environmental Science and Pollution Research, 2018, 25, 17620-17633.	5.3	7
85	Particle size differentiation explains flow regulation controls on sediment sorting in the water-level fluctuation zone of the Three Gorges Reservoir, China. Science of the Total Environment, 2018, 633, 1114-1125.	8.0	48
86	The challenges of modelling phosphorus in a headwater catchment: Applying a â€˜limits of acceptabilityâ€™ uncertainty framework to a water quality model. Journal of Hydrology, 2018, 558, 607-624.	5.4	41
87	Assessing the potential impacts of a revised set of on-farm nutrient and sediment â€˜basicâ€™ control measures for reducing agricultural diffuse pollution across England. Science of the Total Environment, 2018, 621, 1499-1511.	8.0	38
88	Variability in the mineral magnetic properties of soils and sediments within a single field in the Cape Fold mountains, South Africa: Implications for sediment source tracing. Catena, 2018, 163, 172-183.	5.0	12
89	Fingerprinting sub-basin spatial sediment sources using different multivariate statistical techniques and the Modified MixSIR model. Catena, 2018, 164, 32-43.	5.0	48
90	An exploration of individual, social and material factors influencing water pollution mitigation behaviours within the farming community. Land Use Policy, 2018, 70, 16-26.	5.6	67

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91	Colour as reliable tracer to identify the sources of historically deposited flood bench sediment in the Transkei, South Africa: A comparison with mineral magnetic tracers before and after hydrogen peroxide pre-treatment. Catena, 2018, 160, 242-251.	5.0	16
92	The Impact of Metal-Rich Sediments Derived from Mining on Freshwater Stream Life. Reviews of Environmental Contamination and Toxicology, 2018, 248, 111-189.	1.3	2
93	Bed and suspended sediment-associated rare earth element concentrations and fluxes in a polluted Brazilian river system. Environmental Science and Pollution Research, 2018, 25, 34426-34437.	5.3	24
94	Tracing sediment sources in a mountainous forest catchment under road construction in northern Iran: comparison of Bayesian and frequentist approaches. Environmental Science and Pollution Research, 2018, 25, 30979-30997.	5.3	16
95	Subsurface sources contribute substantially to fineâ€grained suspended sediment transported in a tropical <scp>W</scp>est <scp>A</scp>frican watershed in <scp>B</scp>urkina <scp>F</scp>aso. Land Degradation and Development, 2018, 29, 4092-4105.	3.9	7
96	The environmental costs and benefits of high-yield farming. Nature Sustainability, 2018, 1, 477-485.	23.7	193
97	A method for uncertainty constraint of catchment discharge and phosphorus load estimates. Hydrological Processes, 2018, 32, 2779-2787.	2.6	15
98	The Importance of Sustained Grassland and Environmental Research: A Case Study From North Wyke Research Station, UK, 1982â€“2017. Advances in Agronomy, 2018, , 161-235.	5.2	1
99	Small Water Bodies in Great Britain and Ireland: Ecosystem function, human-generated degradation, and options for restorative action. Science of the Total Environment, 2018, 645, 1598-1616.	8.0	87
100	Tracing catchment fine sediment sources using the new SIFT (SedIment Fingerprinting Tool) open source software. Science of the Total Environment, 2018, 635, 838-858.	8.0	66
101	Developing a sustainable strategy to conserve reservoir marginal landscapes. National Science Review, 2018, 5, 10-14.	9.5	13
102	The environmental costs and benefits of high-yield farming. Nature Sustainability, 2018, 1, 477-485.	23.7	36
103	The impact of catchment source group classification on the accuracy of sediment fingerprinting outputs. Journal of Environmental Management, 2017, 194, 16-26.	7.8	56
104	Projected impacts of increased uptake of source control mitigation measures on agricultural diffuse pollution emissions to water and air. Land Use Policy, 2017, 62, 185-201.	5.6	21
105	Sediment source fingerprinting for informing catchment management: Methodological approaches, problems and uncertainty. Journal of Environmental Management, 2017, 194, 1-3.	7.8	14
106	Analysis of fundamental physical factors influencing channel bank erosion: results for contrasting catchments in England and Wales. Environmental Earth Sciences, 2017, 76, 1.	2.7	18
107	Sediment transfer at different spatial and temporal scales in the Sichuan Hilly Basin, China: Synthesizing data from multiple approaches and preliminary interpretation in the context of climatic and anthropogenic drivers. Science of the Total Environment, 2017, 598, 319-329.	8.0	16
108	The oxygen isotopic composition of phosphate in river water and its potential sources in the Upper River Taw catchment, UK. Science of the Total Environment, 2017, 574, 680-690.	8.0	50

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109	The magnitude and significance of sediment oxygen demand in gravel spawning beds for the incubation of salmonid embryos. River Research and Applications, 2017, 33, 1642-1654.	1.7	16
110	Can macroinvertebrate biological traits indicate fineâ€grained sediment conditions in streams?. River Research and Applications, 2017, 33, 1606-1617.	1.7	34
111	Are source groups always appropriate when sediment fingerprinting? The direct comparison of source and sediment samples as a methodological step. River Research and Applications, 2017, 33, 1553-1563.	1.7	14
112	Reducing soil phosphorus fertility brings potential long-term environmental gains: A UK analysis. Environmental Research Letters, 2017, 12, 063001.	5.2	52
113	The potential benefits of on-farm mitigation scenarios for reducing multiple pollutant loadings in prioritised agri-environment areas across England. Environmental Science and Policy, 2017, 73, 100-114.	4.9	21
114	Major agricultural changes required to mitigate phosphorus losses under climate change. Nature Communications, 2017, 8, 161.	12.8	121
115	Sedimentâ€associated organic matter sources and sediment oxygen demand in a Special Area of Conservation (SAC): A case study of the River Axe, UK. River Research and Applications, 2017, 33, 1539-1552.	1.7	11
116	A comparison of conventional and 137 Cs-based estimates of soil erosion rates on arable and grassland across lowland England and Wales. Earth-Science Reviews, 2017, 173, 49-64.	9.1	55
117	Fingerprinting source contributions to bed sedimentâ€associated organic matter in the headwater subcatchments of the River Itchen SAC, Hampshire, UK. River Research and Applications, 2017, 33, 1515-1526.	1.7	12
118	Sediment source fingerprinting as an aid to catchment management: A review of the current state of knowledge and a methodological decision-tree for end-users. Journal of Environmental Management, 2017, 194, 86-108.	7.8	201
119	Use of sediment source fingerprinting to assess the role of subsurface erosion in the supply of fine sediment in a degraded catchment in the Eastern Cape, South Africa. Journal of Environmental Management, 2017, 194, 27-41.	7.8	34
120	The fine sediment conundrum; quantifying, mitigating and managing the issues. River Research and Applications, 2017, 33, 1509-1514.	1.7	11
121	The scale problem in tackling diffuse water pollution from agriculture: Insights from the <scp>A</scp>von <scp>D</scp>emonstration <scp>T</scp>est <scp>C</scp>atchment programme in <scp>E</scp>ngland. River Research and Applications, 2017, 33, 1527-1538.	1.7	20
122	Prediction of storm transfers and annual loads with data-based mechanistic models using high-frequency data. Hydrology and Earth System Sciences, 2017, 21, 6425-6444.	4.9	9
123	Determining the Effect of Drying Time on Phosphorus Solubilization from Three Agricultural Soils under Climate Change Scenarios. Journal of Environmental Quality, 2017, 46, 1131-1136.	2.0	13
124	Hydrological controls on DOCâ€‰â€¯:â€‰â€¯nitrate resource stoichiometry in a lowland, agricultural catchment, southern UK. Hydrology and Earth System Sciences, 2017, 21, 4785-4802.	4.9	25
125	Technical Note: Testing an improved index for analysing storm dischargeâ€“concentration hysteresis. Hydrology and Earth System Sciences, 2016, 20, 625-632.	4.9	108
126	The comparative effects of intermittent versus continuous energy restriction on postprandial glucose-lipid metabolism following 5 % weight-loss: interim analysis of an ongoing study. Proceedings of the Nutrition Society, 2016, 75, .	1.0	0

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127	Extent, frequency and rate of water erosion of arable land in Britain â€“ benefits and challenges for modelling. Soil Use and Management, 2016, 32, 149-161.	4.9	37
128	Use of farm survey returns from the Demonstration Test Catchments to update modelled predictions of sediment and total phosphorus loadings from subsurface drains across England and Wales. Soil Use and Management, 2016, 32, 127-137.	4.9	6
129	Sedimentâ€phosphorus dynamics can shift aquatic ecology and cause downstream legacy effects after wildfire in large river systems. Global Change Biology, 2016, 22, 1168-1184.	9.5	83
130	The contribution of farm-scale experiments to the understanding of soil processes and implications for ecosystem services. European Journal of Soil Science, 2016, 67, 359-359.	3.9	3
131	Flow regulation manipulates contemporary seasonal sedimentary dynamics in the reservoir fluctuation zone of the Three Gorges Reservoir, China. Science of the Total Environment, 2016, 548-549, 410-420.	8.0	89
132	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
133	The <scp>N</scp>orth <scp>W</scp>yke <scp>F</scp>arm <scp>P</scp>latform: effect of temperate grassland farming systems on soil moisture contents, runoff and associated water quality dynamics. European Journal of Soil Science, 2016, 67, 374-385.	3.9	81
134	Lattice Boltzmann method for the fractional advection-diffusion equation. Physical Review E, 2016, 93, 043310.	2.1	13
135	Mapping the combined risk of agricultural fine sediment input and accumulation for riverine ecosystems across England and Wales. Ecological Indicators, 2016, 70, 209-221.	6.3	9
136	Interpreting sedimentation dynamics at Longxi catchment in the Three Gorges Area, China, using Cs-137 activity, particle size and rainfall erosivity. Journal of Mountain Science, 2016, 13, 857-869.	2.0	5
137	Exceedance of modern â€˜backgroundâ€™ fine-grained sediment delivery to rivers due to current agricultural land use and uptake of water pollution mitigation options across England and Wales. Environmental Science and Policy, 2016, 61, 61-73.	4.9	38
138	The changing trend in nitrate concentrations in major aquifers due to historical nitrate loading from agricultural land across England and Wales from 1925 to 2150. Science of the Total Environment, 2016, 542, 694-705.	8.0	95
139	Understanding the controls on deposited fine sediment in the streams of agricultural catchments. Science of the Total Environment, 2016, 547, 366-381.	8.0	83
140	Changing climate and nutrient transfers: Evidence from high temporal resolution concentration-flow dynamics in headwater catchments. Science of the Total Environment, 2016, 548-549, 325-339.	8.0	102
141	Using hysteresis analysis of high-resolution water quality monitoring data, including uncertainty, to infer controls on nutrient and sediment transfer in catchments. Science of the Total Environment, 2016, 543, 388-404.	8.0	221
142	Discharge and nutrient uncertainty: implications for nutrient flux estimation in small streams. Hydrological Processes, 2016, 30, 135-152.	2.6	48
143	Tackling agricultural diffuse pollution: What might uptake of farmer-preferred measures deliver for emissions to water and air?. Science of the Total Environment, 2016, 547, 269-281.	8.0	54
144	Does fine sediment source as well as quantity affect salmonid embryo mortality and development?. Science of the Total Environment, 2016, 541, 957-968.	8.0	44

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145	Development of a biotic index using stream macroinvertebrates to assess stress from deposited fine sediment. Freshwater Biology, 2015, 60, 2019-2036.	2.4	53
146	Resolving clinical diagnoses for syndromic cleft lip and/or palate phenotypes using wholeâ€exome sequencing. Clinical Genetics, 2015, 88, 441-449.	2.0	14
147	Source identification of fine-grained suspended sediment in the Kharaa River basin, northern Mongolia. Science of the Total Environment, 2015, 526, 77-87.	8.0	30
148	Assessment of a rapid method for quantitative reach-scale estimates of deposited fine sediment in rivers. Geomorphology, 2015, 230, 37-50.	2.6	47
149	High-frequency monitoring of nitrogen and phosphorus response in three rural catchments to the end of the 2011â€“2012 drought in England. Hydrology and Earth System Sciences, 2014, 18, 3429-3448.	4.9	103
150	Identifying priorities for nutrient mitigation using river concentrationâ€“flow relationships: The Thames basin, UK. Journal of Hydrology, 2014, 517, 1-12.	5.4	68
151	The use of composite fingerprints to quantify sediment sources in a wildfire impacted landscape, Alberta, Canada. Science of the Total Environment, 2014, 473-474, 642-650.	8.0	46
152	Distributed and dynamic modelling of hydrology, phosphorus and ecology in the Hampshire Avon and Blashford Lakes: Evaluating alternative strategies to meet WFD standards. Science of the Total Environment, 2014, 481, 157-166.	8.0	17
153	Groundwater conceptual models: implications for evaluating diffuse pollution mitigation measures. Quarterly Journal of Engineering Geology and Hydrogeology, 2014, 47, 65-80.	1.4	25
154	Mitigating diffuse pollution from agriculture: International approaches and experience. Science of the Total Environment, 2014, 468-469, 1173-1177.	8.0	21
155	Developing Demonstration Test Catchments as a platform for transdisciplinary land management research in England and Wales. Environmental Sciences: Processes and Impacts, 2014, 16, 1618-1628.	3.5	58
156	Sources of sediment-bound organic matter infiltrating spawning gravels during the incubation and emergence life stages of salmonids. Agriculture, Ecosystems and Environment, 2014, 196, 76-93.	5.3	37
157	Methods for detecting change in hydrochemical time series in response to targeted pollutant mitigation in river catchments. Journal of Hydrology, 2014, 514, 297-312.	5.4	49
158	Modelling the cost-effectiveness of mitigation methods for multiple pollutants at farm scale. Science of the Total Environment, 2014, 468-469, 1198-1209.	8.0	58
159	Cross sector contributions to river pollution in England and Wales: Updating waterbody scale information to support policy delivery for the Water Framework Directive. Environmental Science and Policy, 2014, 42, 16-32.	4.9	53
160	Interactions between diatoms and fine sediment. Hydrological Processes, 2014, 28, 1226-1237.	2.6	73
161	Factors controlling the temporal variability in dissolved oxygen regime of salmon spawning gravels. Hydrological Processes, 2014, 28, 86-103.	2.6	31
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