John Rowan

List of Publications by Year in descending order

49 papers	1,918 citations	236925 25 h-index	254184 43 g-index
49 all docs	49 docs citations	49 times ranked	2345 citing authors

#	Article	IF	Citations
1	Correlation of fluvial sequences in the Mediterranean basin over the last 200ka and their relationship to climate change. Quaternary Science Reviews, 2002, 21, 1633-1641.	3.0	201
2	Equifinality and uncertainty in physically based soil erosion models: application of the GLUE methodology to WEPP-the Water Erosion Prediction Project-for sites in the UK and USA. Earth Surface Processes and Landforms, 2000, 25, 825-845.	2.5	160
3	Economic Valuation of a Mangrove Ecosystem Threatened by Shrimp Aquaculture in Sri Lanka. Environmental Management, 2005, 36, 535-550.	2.7	110
4	Storm Event Suspended Sediment-Discharge Hysteresis and Controls in Agricultural Watersheds: Implications for Watershed Scale Sediment Management. Environmental Science & Technology, 2016, 50, 1769-1778.	10.0	108
5	Multi-parameter fingerprinting of sediment deposition in a small gullied catchment in SE Australia. Catena, 2003, 53, 327-348.	5.0	93
6	DHRAM: a method for classifying river flow regime alterations for the EC Water Framework Directive. Aquatic Conservation: Marine and Freshwater Ecosystems, 2005, 15, 427-446.	2.0	93
7	Uncertainty-based assessment of tracer selection, tracer non-conservativeness and multiple solutions in sediment fingerprinting using synthetic and field data. Journal of Soils and Sediments, 2015, 15, 2101-2116.	3.0	88
8	Evaluating wider benefits of natural flood management strategies: an ecosystem-based adaptation perspective. Hydrology Research, 2014, 45, 774-787.	2.7	77
9	A calcrete-based U/Th chronology for landform evolution in the Sorbas basin, southeast Spain. Quaternary Science Reviews, 2000, 19, 995-1010.	3.0	72
10	Geomorphology and pollution: the environmental impacts of lead mining, Leadhills, Scotland. Journal of Geochemical Exploration, 1995, 52, 57-65.	3.2	59
11	Development of a technique for Lake Habitat Survey (LHS) with applications for the European Union Water Framework Directive. Aquatic Conservation: Marine and Freshwater Ecosystems, 2006, 16, 637-657.	2.0	58
12	Calcrete profile development in Quaternary alluvial sequences, southeast Spain: implications for using calcretes as a basis for landform chronologies. Earth Surface Processes and Landforms, 2003, 28, 169-185.	2.5	53
13	Approaching the physical-biological interface in rivers: a review of methods for ecological evaluation of flow regimes. Progress in Physical Geography, 2005, 29, 506-531.	3.2	51
14	Investigating suspended sediment dynamics in contrasting agricultural catchments using ex situ turbidity-based suspended sediment monitoring. Hydrology and Earth System Sciences, 2015, 19, 3349-3363.	4.9	46
15	Microbial responses to the erosional redistribution of soil organic carbon in arable fields. Soil Biology and Biochemistry, 2013, 60, 195-201.	8.8	44
16	Implications of model uncertainty for the mapping of hillslope-scale soil erosion predictions. Earth Surface Processes and Landforms, 2001, 26, 1333-1352.	2.5	40
17	Use of multi-proxy flood records to improve estimates of flood risk: Lower River Tay, Scotland. Catena, 2006, 66, 107-119.	5.0	40
18	A Critical Review of Environmental Impact Statements in Sri Lanka with Particular Reference to Ecological Impact Assessment. Environmental Management, 2008, 41, 441-460.	2.7	38

#	Article	IF	Citations
19	Natural flood management, land use and climate change trade-offs: the case of Tarland catchment, Scotland. Hydrological Sciences Journal, 2017, 62, 1931-1948.	2.6	36
20	Using the NOAA Advanced Very High Resolution Radiometer to characterise temporal and spatial trends in water temperature of large European lakes. Remote Sensing of Environment, 2012, 126, 1-11.	11.0	33
21	Taking a bite out of Scotlandâ€™s dental carbon emissions in the transition to a low carbon future. Public Health, 2012, 126, 770-777.	2.9	32
22	Temporal variability in catchment sediment yield determined from repeated bathymetric surveys: Abbeystead Reservoir, U.K.. Physics and Chemistry of the Earth, 1995, 20, 199-206.	0.3	31
23	Fingerprinting of bed sediment in the Tay Estuary, Scotland: an environmental magnetism approach. Hydrology and Earth System Sciences, 2002, 6, 1007-1016.	4.9	30
24	Sediment fingerprinting as an environmental forensics tool explaining cyanobacteria blooms in lakes. Applied Geography, 2012, 32, 832-843.	3.7	29
25	Sediment fingerprinting as a tool to identify temporal and spatial variability of sediment sources and transport pathways in agricultural catchments. Agriculture, Ecosystems and Environment, 2018, 267, 188-200.	5.3	29
26	â€œMIRSEDâ€•towards an MIR approach to modelling hillslope soil erosion at the national scale. Catena, 2001, 42, 59-79.	5.0	25
27	Long-term sediment yield in Crombie Reservoir catchment, Angus; and its regional significance within the Midland Valley of Scotland. Hydrological Sciences Journal, 2003, 48, 619-635.	2.6	20
28	Development of a classification and decision-support tool for assessing lake hydromorphology. Environmental Modelling and Software, 2012, 36, 86-98.	4.5	19
29	Evaluating the spatial transferability and temporal repeatability of remote-sensing-based lake water quality retrieval algorithms at the European scale: a meta-analysis approach. International Journal of Remote Sensing, 2015, 36, 2995-3023.	2.9	19
30	Selection of a network of large lakes and reservoirs suitable for global environmental change analysis using Earth Observation. International Journal of Remote Sensing, 2016, 37, 3042-3060.	2.9	18
31	Understanding soil erosion impacts in temperate agroecosystems: bridging the gap between geomorphology and soil ecology using nematodes as a model organism. Biogeosciences, 2013, 10, 7133-7145.	3.3	17
32	Catchment-scale deposition and redistribution of chernobyl radiocaesium in upland Britain. Environment International, 1993, 19, 155-166.	10.0	16
33	Identifying robust response options to manage environmental change using an Ecosystem Approach: A stress-testing case study for the UK XXX. Environmental Science and Policy, 2015, 52, 74-88.	4.9	16
34	Assessing the utility of geospatial technologies to investigate environmental change within lake systems. Science of the Total Environment, 2016, 543, 791-806.	8.0	15
35	Assessing the significance of soil erosion for arable weed seedbank diversity in agro-ecosystems. Progress in Physical Geography, 2013, 37, 622-641.	3.2	13
36	A data-based mechanistic modelling (DBM) approach to understanding dynamic sediment transmission through Wyresdale Park Reservoir, Lancashire, UK. Hydrological Processes, 2000, 14, 63-78.	2.6	11

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37	Fluvial transport and redistribution of Chernobyl fallout radionuclides. Hydrobiologia, 1992, 235-236, 231-246.	2.0	9
38	A 2-D Reservoir Routing Model: Sedimentation History of Abbeystead Reservoir, U.K.. Water Resources Management, 2001, 15, 109-122.	3.9	9
39	Reconstructing historic reservoir sedimentation rates using data-based mechanistic modelling. Physics and Chemistry of the Earth, 2001, 26, 77-82.	0.3	8
40	Barrier Island Geomorphology, Hydrodynamic Modelling, and Historical Shoreline Changes: An Example from South Uist and Benbecula, Scottish Outer Hebrides. Journal of Coastal Research, 2012, 285, 1462-1476.	0.3	8
41	Climate change and standing freshwaters: informing adaptation strategies for conservation at multiple scales. Area, 2012, 44, 411-422.	1.6	8
42	Developing a standard approach for assessing the hydromorphology of lakes in Europe. Aquatic Conservation: Marine and Freshwater Ecosystems, 2019, 29, 655-669.	2.0	7
43	The transport and fluvial redistribution of Chernobyl-derived radiocaesium within the River Wye basin, UK. Science of the Total Environment, 1992, 121, 109-131.	8.0	6
44	Modelling reservoir sedimentation and estimating historical deposition rates using a data-based mechanistic (DBM) approach. Hydrological Sciences Journal, 2000, 45, 237-248.	2.6	6
45	Sediment routing through reservoirs, Wyresdale Park Reservoir, Lancashire, U.K.. Physics and Chemistry of the Earth, 1995, 20, 183-190.	0.3	4
46	Supporting better decisions across the nexus of water, energy and food through earth observation data: case of the Zambezi basin. Proceedings of the International Association of Hydrological Sciences, 0, 376, 15-23.	1.0	4
47	Impact of agricultural water management interventions on upstreamâ€“downstream tradeâ€offs in the upper Cauvery catchment, southern India: a modelling study*. Irrigation and Drainage, 2022, 71, 472-494.	1.7	4
48	Calcareous concretions yield the first U/Th date for the Late Devensian raised marine strata of eastern Scotland. Scottish Journal of Geology, 2001, 37, 73-78.	0.1	3
49	Fluvial Redistribution of Chernobyl Fallout: Reservoir Evidence in the Severn Basin. Water and Environment Journal, 1992, 6, 659-666.	2.2	2