Mike J Kirkby

List of Publications by Citations

87 papers	3,993 citations	35 h-index	63 g-index
107 ext. papers	4,494 ext. citations	5 avg, IF	5.33 L-index

#	Paper	IF	Citations
87	Testing a physically-based flood forecasting model (TOPMODEL) for three U.K. catchments. *Journal of Hydrology*, **1984**, 69, 119-143	6	342
86	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. *Hydrological Sciences Journal*, **2019**, 64, 1141-1158	3.5	259
85	A cellular model of Holocene upland river basin and alluvial fan evolution. *Earth Surface Processes and Landforms*, **2002**, 27, 269-288	3.7	238
84	Environmental change in moorland landscapes. *Earth-Science Reviews*, **2007**, 82, 75-100	10.2	201
83	Sediment supply and climate change: implications for basin stratigraphy. *Basin Research*, **1998**, 10, 7-18	3.2	166
82	The PESERA coarse scale erosion model for Europe. I. – Model rationale and implementation. *European Journal of Soil Science*, **2008**, 59, 1293-1306	3.4	162
81	Hillslope runoff processes and models. *Journal of Hydrology*, **1988**, 100, 315-339	6	137
80	Sediment slugs: large-scale fluctuations in fluvial sediment transport rates and storage volumes. *Progress in Physical Geography*, **1995**, 19, 500-519	3.5	132
79	Indicators for pan-European assessment and monitoring of soil erosion by water. *Environmental Science and Policy*, **2004**, 7, 25-38	6.2	128
78	Gully processes and modelling. *Progress in Physical Geography*, **1997**, 21, 354-374	3.5	127
77	A network-index-based version of TOPMODEL for use with high-resolution digital topographic data. *Hydrological Processes*, **2004**, 18, 191-201	3.3	125
76	Gully processes and gully dynamics. *Earth Surface Processes and Landforms*, **2009**, 34, 1841-1851	3.7	109
75	The influence of land use, soils and topography on the delivery of hillslope runoff to channels in SE Spain. *Earth Surface Processes and Landforms*, **2002**, 27, 1459-1473	3.7	107
74	The impact of rainstorms on floods in ephemeral channels in southeast Spain. *Catena*, **2000**, 38, 191-209	5.8	84
73	A climatic index for soil erosion potential (CSEP) including seasonal and vegetation factors. *Catena*, **1995**, 25, 333-352	5.8	73
72	Farming Systems and Political Growth in Ancient Oaxaca: Physiographic features and water-control techniques contributed to the rise of Zapotec Indian civilization. *Science*, **1967**, 158, 445-54	33.3	73
71	Reconstructing flash flood magnitudes using 'Structure-from-Motion': A rapid assessment tool. *Journal of Hydrology*, **2014**, 519, 1914-1927	6	72

70	The future of the uplands. *Land Use Policy*, **2009**, 26, S204-S216	5.6	68
69	Quantifying the rate and depth dependence of bioturbation based on optically-stimulated luminescence (OSL) dates and meteoric 10Be. *Earth Surface Processes and Landforms*, **2014**, 39, 1188-1196	3.7	67
68	Overland flow velocity and roughness properties in peatlands. *Water Resources Research*, **2008**, 44,	5.4	67
67	Modelling the interactions between soil surface properties and water erosion. *Catena*, **2002**, 46, 89-102	5.8	65
66	MEDALUS soil erosion models for global change. *Geomorphology*, **1998**, 24, 35-49	4.3	63
65	Comparison of scale and scaling issues in integrated land-use models for policy support. *Agriculture, Ecosystems and Environment*, **2011**, 142, 18-28	5.7	62
64	Anticipating and Managing Future Trade-offs and Complementarities between Ecosystem Services. *Ecology and Society*, **2013**, 18,	4.1	59
63	The importance of surface controls on overland flow connectivity in semi-arid environments: results from a numerical experimental approach. *Hydrological Processes*, **2014**, 28, 2116-2128	3.3	55
62	TOPMODEL: A personal view. *Hydrological Processes*, **1997**, 11, 1087-1097	3.3	53
61	Towards sustainable management of Mediterranean river basins: policy recommendations on management aspects of temporary streams. *Water Policy*, **2013**, 15, 830-849	1.6	52
60	Modelling the links between vegetation and landforms. *Geomorphology*, **1995**, 13, 319-335	4.3	52
59	Observed and modelled distributions of channel and gully heads with examples from SE Spain and Belgium. *Catena*, **2003**, 50, 415-434	5.8	49
58	Causal processes of soil salinization in Tunisia, Spain and Hungary. *Land Degradation and Development*, **2001**, 12, 163-181	4.4	49
57	The development of land quality indicators for soil degradation by water erosion. *Agriculture, Ecosystems and Environment*, **2000**, 81, 125-135	5.7	49
56	Differences in hillslope runoff and sediment transport rates within two semi-arid catchments in southeast Spain. *Geomorphology*, **2005**, 68, 183-200	4.3	48
55	The influence of rainfall distribution and morphological factors on runoff delivery from dryland catchments in SE Spain. *Catena*, **2005**, 62, 136-156	5.8	48
54	Mitigating land degradation caused by wildfire: Application of the PESERA model to fire-affected sites in central Portugal. *Geoderma*, **2012**, 191, 40-50	6.7	46
53	Some factors controlling gully growth in fine-grained sediments: a model applied in southeast Spain. *Catena*, **2000**, 40, 127-146	5.8	41

52	Hillslope erosion by rainstorms—a magnitude-frequency analysis. *Earth Surface Processes and Landforms*, **1991**, 16, 399-409	3.7	34
51	The impact of land-cover change on flood peaks in peatland basins. *Water Resources Research*, **2016**, 52, 3477-3492	5.4	31
50	Distance, time and scale in soil erosion processes. *Earth Surface Processes and Landforms*, **2010**, 35, 1621-1623	3.7	28
49	An evaluation of the pesera soil erosion model and its application to a case study in Zakynthos, Greece. *Soil Use and Management*, **2005**, 21, 377-385	3.1	27
48	Evaluation of the PESERA model in two contrasting environments. *Earth Surface Processes and Landforms*, **2009**, 34, 629-640	3.7	25
47	Classifying low flow hydrological regimes at a regional scale. *Hydrology and Earth System Sciences*, **2011**, 15, 3741-3750	5.5	24
46	A Process Based Model of Faecal Bacterial Levels in Upland Catchments. *Water Science and Technology*, **1984**, 16, 453-462	2.2	21
45	Communicating geomorphology: global challenges for the twenty-first century. *Earth Surface Processes and Landforms*, **2014**, 39, 476-486	3.7	19
44	A model to estimate the impact of climatic change on hillslope and regolith form. *Catena*, **1989**, 16, 321-341	3.1	19
43	The hurst effect and its implications for extrapolating process rates. *Earth Surface Processes and Landforms*, **1987**, 12, 57-67	3.7	19
42	A Runoff Simulation Model Based on Hillslope Topography. *Water Science and Technology Library*, **1986**, 39-56	0.3	18
41	Spatial and temporal evaluation of soil erosion in Turkey under climate change scenarios using the Pan-European Soil Erosion Risk Assessment (PESERA) model. *Environmental Monitoring and Assessment*, **2020**, 192, 491	3.1	17
40	Modelling Across Scales: The Medalus Family of Models **1998**, 161-173		16
39	A distributed TOPMODEL for modelling impacts of land-cover change on river flow in upland peatland catchments. *Hydrological Processes*, **2015**, 29, 2867-2879	3.3	15
38	A history of TOPMODEL. *Hydrology and Earth System Sciences*, **2021**, 25, 527-549	5.5	14
37	Modelling impacts of agricultural practice on flood peaks in upland catchments: An application of the distributed TOPMODEL. *Hydrological Processes*, **2017**, 31, 4206-4216	3.3	12
36	MEDRUSH and the Catsop basin—the lessons learned. *Catena*, **1999**, 37, 495-506	5.8	12
35	The effect of interactions between rainfall patterns and land-cover change on flood peaks in upland peatlands. *Journal of Hydrology*, **2018**, 567, 546-559	6	12

34	Do not only connect: a model of infiltration-excess overland flow based on simulation. *Earth Surface Processes and Landforms*, **2014**, 39, 952-963	3.7	11
33	Ion-exchange resin samplers for the in situ measurement of major cations in soilwater solute flux. *Journal of Hydrology*, **1985**, 80, 325-335	6	9
32	A conceptual model for physical and chemical soil profile evolution. *Geoderma*, **2018**, 331, 121-130	6.7	8
31	A Model for Variations in Gelifluction Rates with Temperature and Topography: Implications for Global Change. *Geografiska Annaler, Series A: Physical Geography*, **1995**, 77, 269-278	1.1	8
30	Seasonal vegetation and management influence overland flow velocity and roughness in upland grasslands. *Hydrological Processes*, **2020**, 34, 3777-3791	3.3	5
29	Modelling the growth of cyanobacteria (GrowSCUM). *Hydrological Processes*, **1995**, 9, 809-820	3.3	5
28	Water in the critical zone: soil, water and life from profile to planet. *Soil*, **2016**, 2, 631-645	5.8	5
27	The use of simulation models in teaching geomorphology and hydrology. *Journal of Geography in Higher Education*, **1988**, 12, 31-49	1.6	4
26	Modelling the links between vegetation and landforms **1995**, 319-335		4
25	The PESERA-DESMICE Modeling Framework for Spatial Assessment of the Physical Impact and Economic Viability of Land Degradation Mitigation Technologies. *Frontiers in Environmental Science*, **2016**, 4,	4.8	4
24	Hillslope Form and Process: History 1960–2000+. *Geological Society Memoir*,M58-2021-8	0.4	4
23	World Soil Day and earth surface processes. *Earth Surface Processes and Landforms*, **2015**, 40, 138-139	3.7	3
22	Insights into biogeochemical cycling from a soil evolution model and long-term chronosequences. *Biogeosciences*, **2014**, 11, 6873-6894	4.6	3
21	Organization and Process **2005**,		3
20	John Thornes and desertification research in Europe317-326		3
19	Desertification and development: Some broader contexts. *Journal of Arid Environments*, **2021**, 193, 104575	2.5	3
18	Evaluation of Plot Runoff and Erosion Forecasts Using the CSEP and MEDRUSH Models **1998**, 33-42		2
17	Pan-European Soil Erosion Assessment and Maps **2006**, 659-674		1

16	Editorial report. *Earth Surface Processes and Landforms*, **1991**, 16, 687-687	3.7	1
15	The continuity equation slope model and basal boundary conditions: A further comment. *Earth Surface Processes and Landforms*, **1983**, 8, 287-288	3.7	1
14	The impact of semi-natural broadleaf woodland and pasture on soil properties and flood discharge. *Hydrological Processes*, **2022**, 36, e14453	3.3	1
13	Insights into biogeochemical cycling from a soil evolution model and long-term chronosequences		1
12	Following the curve? Reviewing the physical basis of the SCS curve number method for estimating storm runoff. *Hydrological Processes*, **2021**, 35, e14404	3.3	0
11	Some examples of spurious correlation in the literature. *Hydrological Processes*, **2021**, 35, e14348	3.3	0
10	Upland grassland management influences organo-mineral soil properties and their hydrological function. *Ecohydrology*,e2336	2.5	0
9	HP Volume to honor Keith Beven. *Hydrological Processes*, **2017**, 31, 3762-3764	3.3	
8	Editorial report for 1998 **1998**, 23, 1055-1056		
7	Impacts of Environmental Changes on Soil Erosion Across Europe **2006**, 729-742		
6	Editorial Report for 2001. *Earth Surface Processes and Landforms*, **2001**, 26, 1365-1366	3.7	
5	Editorial Report for 2000. *Earth Surface Processes and Landforms*, **2000**, 25, 1385-1386	3.7	
4	Editorial report for 1999. *Earth Surface Processes and Landforms*, **1999**, 24, 1171-1172	3.7	
3	Editorial report. *Earth Surface Processes and Landforms*, **1994**, 19, 679-680	3.7	
2	Editorial report. *Earth Surface Processes and Landforms*, **1992**, 17, 737-738	3.7	
1	Editorial report. *Earth Surface Processes and Landforms*, **1990**, 15, 685-686	3.7	