Sim M Reaney

List of Publications by Year
in descending order

31	2,153	361296	434063
papers	citations	20 h-index	31 g-index

33	33	33	3020
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Concepts of hydrological connectivity: Research approaches, pathways and future agendas. Earth-Science Reviews, 2013, 119, 17-34.	4.0	445
2	Integrated environmental modeling: A vision and roadmap for the future. Environmental Modelling and Software, 2013, 39, 3-23.	1.9	366
3	Representation of landscape hydrological connectivity using a topographically driven surface flow index. Water Resources Research, 2009, 45, .	1.7	145
4	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.	1.2	125
5	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.	3.9	102
6	Using the nutrient transfer continuum concept to evaluate the European Union Nitrates Directive National Action Programme. Environmental Science and Policy, 2011, 14, 664-674.	2.4	96
7	Use of the Connectivity of Runoff Model (CRUM) to investigate the influence of storm characteristics on runoff generation and connectivity in semi-arid areas. Hydrological Processes, 2007, 21, 894-906.	1.1	91
8	Climate change and health and social care: Defining future hazard, vulnerability and risk for infrastructure systems supporting older peopleâ€™s health care in England. Applied Geography, 2012, 33, 16-24.	1.7	72
9	The importance of surface controls on overland flow connectivity in semiâ€arid environments: results from a numerical experimental approach. Hydrological Processes, 2014, 28, 2116-2128.	1.1	70
10	Towards a unified thresholdâ€based hydrological theory: necessary components and recurring challenges. Hydrological Processes, 2013, 27, 313-318.	1.1	63
11	Benchmarking the predictive capability of hydrological models for river flow and flood peak predictions across over 1000Âcatchments in Great Britain. Hydrology and Earth System Sciences, 2019, 23, 4011-4032.	1.9	63
12	Risk-based modelling of diffuse land use impacts from rural landscapes upon salmonid fry abundance. Ecological Modelling, 2011, 222, 1016-1029.	1.2	57
13	Dominant mechanisms for the delivery of fine sediment and phosphorus to fluvial networks draining grassland dominated headwater catchments. Science of the Total Environment, 2015, 523, 178-190.	3.9	55
14	Predicting microbial water quality with models: Over-arching questions for managing risk in agricultural catchments. Science of the Total Environment, 2016, 544, 39-47.	3.9	54
15	Surveillant Science: Challenges for the Management of Rural Environments Emerging from the New Generation Diffuse Pollution Models. Journal of Agricultural Economics, 2006, 57, 239-257.	1.6	49
16	The role of tributary relative timing and sequencing in controlling large floods. Water Resources Research, 2014, 50, 5444-5458.	1.7	44
17	The use of agent based modelling techniques in hydrology: determining the spatial and temporal origin of channel flow in semiâ€arid catchments. Earth Surface Processes and Landforms, 2008, 33, 317-327.	1.2	32
18	A new framework for integrated, holistic, and transparent evaluation of inter-basin water transfer schemes. Science of the Total Environment, 2020, 721, 137646.	3.9	28

#	Article	IF	Citations
19	A Monte Carlo approach to the inverse problem of diffuse pollution risk in agricultural catchments. Science of the Total Environment, 2012, 433, 434-449.	3.9	26
20	A geospatial framework to support integrated biogeochemical modelling in the United Kingdom. Environmental Modelling and Software, 2015, 68, 219-232.	1.9	26
21	Identifying critical source areas using multiple methods for effective diffuse pollution mitigation. Journal of Environmental Management, 2019, 250, 109366.	3.8	26
22	Spatial targeting of natureâ€based solutions for flood risk management within river catchments. Journal of Flood Risk Management, 2022, 15, .	1.6	17
23	Use of spatially distributed time-integrated sediment sampling networks and distributed fine sediment modelling to inform catchment management. Journal of Environmental Management, 2017, 202, 469-478.	3.8	16
24	Strong and recurring seasonality revealed within stream diatom assemblages. Scientific Reports, 2019, 9, 3313.	1.6	16
25	High frequency variability of environmental drivers determining benthic community dynamics in headwater streams. Environmental Sciences: Processes and Impacts, 2014, 16, 1629-1636.	1.7	14
26	Predicting diffuse microbial pollution risk across catchments: The performance of SCIMAP and recommendations for future development. Science of the Total Environment, 2017, 609, 456-465.	3.9	12
27	A catchment-scale model to predict spatial and temporal burden of E. coli on pasture from grazing livestock. Science of the Total Environment, 2018, 616-617, 678-687.	3.9	12
28	The Role of Attenuation and Land Management in Small Catchments to Remove Sediment and Phosphorus: A Modelling Study of Mitigation Options and Impacts. Water (Switzerland), 2018, 10, 1227.	1.2	12
29	High resolution characterisation of E. coli proliferation profiles in livestock faeces. Waste Management, 2019, 87, 537-545.	3.7	8
30	Sustainable Catchment-Wide Flood Management: A Review of the Terminology and Application of Sustainable Catchment Flood Management Techniques in the UK. Water (Switzerland), 2022, 14, 1204.	1.2	6
31	Transmission loss estimation for ephemeral sand rivers in Southern Africa. Journal of Hydrology, 2021, 600, 126487.	2.3	4