William H Blake

List of Publications by Year
in descending order

105 papers	4,017 citations	136950 32 h-index	128289 60 g-index
105 all docs	105 docs citations	105 times ranked	3259 citing authors

#	Article	IF	Citations
1	Composition of deposited sediment and its temporal variation in a disturbed tropical catchment in the Kelantan river basin, Peninsular Malaysia. Environmental Science and Pollution Research, 2023, 30, 71881-71896.	5.3	4
2	Evaluating spatio-temporal soil erosion dynamics in the Winam Gulf catchment, Kenya for enhanced decision making in the land-lake interface. Science of the Total Environment, 2022, 815, 151975.	8.0	10
3	Particle size effect on geochemical composition of experimental soil mixtures relevant for unmixing modelling. Geomorphology, 2022, 403, 108178.	2.6	9
4	Integrating landâ€waterâ€people connectivity concepts across disciplines for coâ€design of soil erosion solutions. Land Degradation and Development, 2021, 32, 3415-3430.	3.9	16
5	Spatial distribution of sediment phosphorus in a Ramsar wetland. Science of the Total Environment, 2021, 765, 142749.	8.0	13
6	Sediment source apportionment following wildfire in an upland commercial forest catchment. Journal of Soils and Sediments, 2021, 21, 2432-2449.	3.0	4
7	Channel erosion dominates sediment sources in an agricultural catchment in the Upper Yangtze basin of China: Evidence from geochemical fingerprints. Catena, 2021, 199, 105111.	5.0	21
8	Drivers, Impacts and Mitigation of Increased Sedimentation in the Hydropower Reservoirs of East Africa. Land, 2021, 10, 638.	2.9	17
9	Accumulation and bioconcentration of heavy metals in two phases from agricultural soil to plants in Usangu agroecosystem-Tanzania. Heliyon, 2021, 7, e07514.	3.2	15
10	Reconstructing the Changes in Sedimentation and Source Provenance in East African Hydropower Reservoirs: A Case Study of Nyumba ya Mungu in Tanzania. Earth, 2021, 2, 485-514.	2.2	3
11	Soil fertility and land sustainability in Usangu Basin-Tanzania. Heliyon, 2021, 7, e07745.	3.2	11
12	Exploring Relationship between Perception Indicators and Mitigation Behaviors of Soil Erosion in Undergraduate Students in Sonora, Mexico. Sustainability, 2021, 13, 9282.	3.2	1
13	Assessment of arsenic status and distribution in Usangu agro-ecosystem-Tanzania. Journal of Environmental Management, 2021, 294, 113012.	7.8	2
14	Characterization of soil phosphate status, sorption and saturation in paddy wetlands in usangu basin-Tanzania. Chemosphere, 2021, 278, 130466.	8.2	8
15	Soil erosion and sediment transport in Tanzania: Part II â€“ sedimentological evidence of phased land degradation. Earth Surface Processes and Landforms, 2021, 46, 3112-3126.	2.5	7
16	Toxic metals in East African agro-ecosystems: Key risks for sustainable food production. Journal of Environmental Management, 2021, 294, 112973.	7.8	31
17	Soil erosion and sediment transport in Tanzania: Part I â€“ sediment source tracing in three neighbouring river catchments. Earth Surface Processes and Landforms, 2021, 46, 3096-3111.	2.5	10
18	Evaluating the effectiveness of soil conservation at the basin scale using floodplain sedimentary archives. Science of the Total Environment, 2021, 792, 148414.	8.0	3

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19	Land use patterns influence the distribution of potentially toxic elements in soils of the Usangu Basin, Tanzania. Chemosphere, 2021, 284, 131410.	8.2	0
20	Building Climate Change Adaptation and Resilience through Soil Organic Carbon Restoration in Sub-Saharan Rural Communities: Challenges and Opportunities. Sustainability, 2021, 13, 10966.	3.2	10
21	Evaluating Soil Carbon as a Proxy for Erosion Risk in the Spatio-Temporal Complex Hydropower Catchment in Upper Pangani, Northern Tanzania. Earth, 2021, 2, 764-780.	2.2	4
22	â€˜Mind the Gapâ€™: Reconnecting Local Actions and Multi-Level Policies to Bridge the Governance Gap. An Example of Soil Erosion Action from East Africa. Land, 2020, 9, 352.	2.9	6
23	Protecting the commons: Predictors of willingness to mitigate communal land degradation among Maasai pastoralists. Journal of Environmental Psychology, 2020, 72, 101504.	5.1	12
24	Exploring the potential of using 7Be measurements to estimate soil redistribution rates in semi-arid areas: results from Western Iran and Southern Italy. Journal of Soils and Sediments, 2020, 20, 3524-3536.	3.0	6
25	Determining tributary sources of increased sedimentation in East-African Rift Lakes. Science of the Total Environment, 2020, 717, 137266.	8.0	36
26	Dataset on the 6-year radiocesium transport in rivers near Fukushima Daiichi nuclear power plant. Scientific Data, 2020, 7, 433.	5.3	8
27	Assessing the performance of a physically based hydrological model using a proxyâ€catchment approach in an agricultural environment. Hydrological Processes, 2019, 33, 3119-3137.	2.6	4
28	Understanding the geomorphic consequences of enhanced overland flow in mixed agricultural systems: sediment fingerprinting demonstrates the need for integrated upstream and downstream thinking. Journal of Soils and Sediments, 2019, 19, 3319-3331.	3.0	11
29	10,000 years of climate control over carbon accumulation in an Iberian bog (southwestern Europe). Geoscience Frontiers, 2019, 10, 1521-1533.	8.4	15
30	â€œWe will change whether we want it or notâ€• Soil erosion in Maasai land as a social dilemma and a challenge to community resilience. Journal of Environmental Psychology, 2019, 66, 101365.	5.1	13
31	Extreme levels of fallout radionuclides and other contaminants in glacial sediment (cryoconite) and implications for downstream aquatic ecosystems. Scientific Reports, 2019, 9, 12531.	3.3	34
32	Transport and Redistribution of Radiocesium in Fukushima Fallout through Rivers. Environmental Science & Technology, 2019, 53, 12339-12347.	10.0	90
33	Drivers of increased soil erosion in East Africaâ€™s agro-pastoral systems: changing interactions between the social, economic and natural domains. Regional Environmental Change, 2019, 19, 1909-1921.	2.9	62
34	Testing the mid-Holocene relative sea-level highstand hypothesis in North Wales, UK. Holocene, 2019, 29, 1491-1502.	1.7	2
35	Fingerprinting changes of source apportionments from mixed land uses in stream sediments before and after an exceptional rainstorm event. Geomorphology, 2019, 341, 216-229.	2.6	47
36	Differentiating the geographical origin of Ethiopian coffee using XRF- and ICP-based multi-element and stable isotope profiling. Food Chemistry, 2019, 290, 295-307.	8.2	36

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37	Fingerprinting changes in source contribution for evaluating soil response during an exceptional rainfall in Spanish pre-pyrenees. Journal of Environmental Management, 2019, 240, 136-148.	7.8	30
38	Foraminiferal evidence of major environmental changes driven by the sun-climate coupling in the western Portuguese coast (14th century to present). Estuarine, Coastal and Shelf Science, 2019, 218, 106-118.	2.1	5
39	Testing the sensitivity of a multivariate mixing model using geochemical fingerprints with artificial mixtures. Geoderma, 2019, 337, 498-510.	5.1	57
40	Isotope mixing models require individual isotopic tracer content for correct quantification of sediment source contributions. Hydrological Processes, 2018, 32, 981-989.	2.6	21
41	Impact of soil hydrological properties on the 7Be depth distribution and the spatial variation of 7Be inventories across a small catchment. Geoderma, 2018, 318, 88-98.	5.1	3
42	Self-attenuation corrections for Pb-210 in gamma-ray spectrometry using well and coaxial HPGe detectors. Applied Radiation and Isotopes, 2018, 134, 151-156.	1.5	7
43	Rapid and irreversible sorption behavior of 7 Be assessed to evaluate its use as a catchment sediment tracer. Journal of Environmental Radioactivity, 2018, 182, 108-116.	1.7	4
44	Soil erosion in East Africa: an interdisciplinary approach to realising pastoral land management change. Environmental Research Letters, 2018, 13, 124014.	5.2	58
45	A deconvolutional Bayesian mixing model approach for river basin sediment source apportionment. Scientific Reports, 2018, 8, 13073.	3.3	57
46	Community managed forests dominate the catchment sediment cascade in the mid-hills of Nepal: A compound-specific stable isotope analysis. Science of the Total Environment, 2018, 637-638, 306-317.	8.0	30
47	Pinpointing areas of increased soil erosion risk following land cover change in the Lake Manyara catchment, Tanzania. International Journal of Applied Earth Observation and Geoinformation, 2018, 71, 1-8.	2.8	33
48	Bioaccessibility of U, Th and Pb in solid wastes and soils from an abandoned uranium mine. Journal of Environmental Radioactivity, 2017, 173, 85-96.	1.7	22
49	Methodological perspectives on the application of compound-specific stable isotope fingerprinting for sediment source apportionment. Journal of Soils and Sediments, 2017, 17, 1537-1553.	3.0	46
50	The challenges and opportunities of addressing particle size effects in sediment source fingerprinting: A review. Earth-Science Reviews, 2017, 169, 85-103.	9.1	194
51	Aeolian sediment fingerprinting using a Bayesian mixing model. Earth Surface Processes and Landforms, 2017, 42, 2365-2376.	2.5	47
52	Bromine soil/sediment enrichment in tidal salt marshes as a potential indicator of climate changes driven by solar activity: New insights from W coast Portuguese estuaries. Science of the Total Environment, 2017, 580, 324-338.	8.0	12
53	Temporal Dynamics of Sediment Sources in an Urbanizing Mediterranean Catchment. Land Degradation and Development, 2017, 28, 2354-2369.	3.9	17
54	Fingerprinting and tracing the sources of soils and sediments: Earth and ocean science, geoarchaeological, forensic, and human health applications. Earth-Science Reviews, 2016, 162, 1-23.	9.1	174

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55	Combining catchment modelling and sediment fingerprinting to assess sediment dynamics in a Spanish Pyrenean river system. Science of the Total Environment, 2016, 569-570, 1136-1148.	8.0	28
56	Temporal variability of beryllium-7 fallout in southwest UK. Journal of Environmental Radioactivity, 2016, 160, 80-86.	1.7	17
57	Quantifying the spatial variation of 7Be depth distributions towards improved erosion rate estimations. Geoderma, 2016, 269, 10-18.	5.1	12
58	Identifying sediment sources by applying a fingerprinting mixing model in a Pyrenean drainage catchment. Journal of Soils and Sediments, 2015, 15, 2067-2085.	3.0	31
59	Determining riverine sediment storage mechanisms of biologically reactive phosphorus in situ using DGT. Environmental Science and Pollution Research, 2015, 22, 9816-9828.	5.3	15
60	Drivers of Holocene peatland carbon accumulation across a climate gradient in northeastern North America. Quaternary Science Reviews, 2015, 121, 110-119.	3.0	58
61	The interception and wash-off fraction of 7Be by bean plants in the context of its use as a soil radiotracer. Journal of Radioanalytical and Nuclear Chemistry, 2015, 306, 301-308.	1.5	4
62	Prefaceâ€"Addressing challenges to advance sediment fingerprinting research. Journal of Soils and Sediments, 2015, 15, 2033-2037.	3.0	28
63	Comparing catchment sediment fingerprinting procedures using an auto-evaluation approach with virtual sample mixtures. Science of the Total Environment, 2015, 532, 456-466.	8.0	79
64	Estimating Be-7 association with soil particle size fractions for erosion and deposition modelling. Journal of Soils and Sediments, 2014, 14, 1886-1893.	3.0	20
65	Recent environmental change in an upland reservoir catchment: a palaeoecological perspective. Journal of Paleolimnology, 2014, 52, 229-244.	1.6	4
66	Evaluating the importance of surface soil contributions to reservoir sediment in alpine environments: a combined modelling and fingerprinting approach in the Posets-Maladeta Natural Park. Solid Earth, 2014, 5, 963-978.	2.8	21
67	Preface: environmental radioactivity: implications for human and environmental health. Journal of Environmental Radioactivity, 2014, 133, 1-4.	1.7	0
68	A 700year record of combustion-derived pollution in northern Spain: Tools to identify the Holocene/Anthropocene transition in coastal environments. Science of the Total Environment, 2014, 470-471, 240-247.	8.0	63
69	Sediment fingerprinting in agricultural catchments: A critical re-examination of source discrimination and data corrections. Geomorphology, 2014, 204, 177-191.	2.6	199
70	Fallout 210Pb as a soil and sediment tracer in catchment sediment budget investigations: A review. Earth-Science Reviews, 2014, 138, 335-351.	9.1	194
71	Anthropogenic disruptions of the sedimentary record in coastal marshes: Examples from the southern Bay of Biscay (N. Spain). Continental Shelf Research, 2014, 86, 132-140.	1.8	10
72	Modelling particle residence times in agricultural river basins using a sediment budget model and fallout radionuclide tracers. Earth Surface Processes and Landforms, 2014, 39, 1944-1959.	2.5	19

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73	Initial flux of sediment-associated radiocesium to the ocean from the largest river impacted by Fukushima Daiichi Nuclear Power Plant. Scientific Reports, 2014, 4, 3714.	3.3	124
74	Comparative dating of recent peat deposits using natural and anthropogenic fallout radionuclides and Spheroidal Carbonaceous Particles (SCPs) at a local and landscape scale. Quaternary Geochronology, 2013, 15, 11-19.	1.4	16
75	Fate of 90Sr and U(VI) in Dounreay sediments following saline inundation and erosion. Chemosphere, 2013, 92, 911-917.	8.2	8
76	Assumptions and challenges in the use of fallout beryllium-7 as a soil and sediment tracer in river basins. Earth-Science Reviews, 2013, 126, 85-95.	9.1	64
77	Influence of sediment redox conditions on uranium mobilisation during saline intrusion. Chemical Geology, 2013, 357, 158-163.	3.3	9
78	Relative sea-level rise in the Basque coast (N Spain): Different environmental consequences on the coastal area. Ocean and Coastal Management, 2013, 77, 3-13.	4.4	27
79	Discriminating fine sediment sources and the application of sediment tracers in burned catchments: a review. Hydrological Processes, 2013, 27, 943-958.	2.6	40
80	Interactions between sediments and water: perspectives on the 12th International Association for Sediment Water Science Symposium. Journal of Soils and Sediments, 2012, 12, 1497-1500.	3.0	3
81	Mobilization of Technetium from Reduced Sediments under Seawater Inundation and Intrusion Scenarios. Environmental Science & Technology, 2012, 46, 11798-11803.	10.0	21
82	Optimisation of beryllium-7 gamma analysis following BCR sequential extraction. Analytica Chimica Acta, 2012, 720, 91-96.	5.4	6
83	Tracing crop-specific sediment sources in agricultural catchments. Geomorphology, 2012, 139-140, 322-329.	2.6	121
84	Determining the effects of wildfire on sediment sources using 137Cs and unsupported 210Pb: the role of landscape disturbances and driving forces. Journal of Soils and Sediments, 2012, 12, 982-994.	3.0	51
85	Wildfire impacts on hillslope sediment and phosphorus yields. Journal of Soils and Sediments, 2010, 10, 671-682.	3.0	43
86	Sediment aggregation and water quality in wildfire-affected river basins. Marine and Freshwater Research, 2009, 60, 653.	1.3	16
87	Tide-driven dune migration and sediment transport on an intertidal shoal in a shallow estuary in Devon, UK. Marine Geology, 2009, 262, 82-95.	2.1	23
88	Deriving hillslope sediment budgets in wildfire-affected forests using fallout radionuclide tracers. Geomorphology, 2009, 104, 105-116.	2.6	90
89	Fallout radionuclide tracers identify a switch in sediment sources and transport-limited sediment yield following wildfire in a eucalypt forest. Geomorphology, 2009, 110, 140-151.	2.6	88
90	Impacts of landscape remediation on the heavy metal pollution dynamics of a lake surrounded by non-ferrous smelter waste. Environmental Pollution, 2007, 148, 268-280.	7.5	18

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91	Distinctiveness of wildfire effects on soil erosion in south-east Australian eucalypt forests assessed in a global context. Forest Ecology and Management, 2007, 238, 347-364.	3.2	107
92	Structural characteristics and behavior of fire-modified soil aggregates. Journal of Geophysical Research, 2007, 112, .	3.3	26
93	Downstream Changes in Bed-sediment and Streamwater Metal Concentrations along a Watercourse in a Rehabilitated Post-industrial Landscape in South Wales. Water, Air, and Soil Pollution, 2007, 181, 107-113.	2.4	5
94	Effects of differing wildfire severities on soil wettability and implications for hydrological response. Journal of Hydrology, 2006, 319, 295-311.	5.4	246
95	Quantifying Fine-Sediment Sources in Primary and Selectively Logged Rainforest Catchments Using Geochemical Tracers. Water, Air and Soil Pollution, 2006, 6, 615-623.	0.8	11
96	Changes in Sediment Sources following Wildfire in Mountainous Terrain: A Pairedâ€“Catchment Approach, British Columbia, Canada. Water, Air and Soil Pollution, 2006, 6, 637-645.	0.8	21
97	Magnetic enhancement in wildfire-affected soil and its potential for sediment-source ascription. Earth Surface Processes and Landforms, 2006, 31, 249-264.	2.5	70
98	Changes in Sediment Sources Following Wildfire in Mountainous Terrain: A Paired-Catchment Approach, British Columbia, Canada. , 2006, , 273-281.		4
99	Heating effects on water repellency in Australian eucalypt forest soils and their value in estimating wildfire soil temperatures. International Journal of Wildland Fire, 2004, 13, 157.	2.4	125
100	Heavy metal concentrations during storm events in a rehabilitated industrialized catchment. Hydrological Processes, 2003, 17, 1923-1939.	2.6	42
101	Fire Severity, Water Repellency Characteristics and Hydrogeomorphological Changes Following the Christmas 2001 Sydney Forest Fires. Australian Geographer, 2003, 34, 147-175.	1.7	68
102	Using cosmogenic beryllium-7 as a tracer in sediment budget investigations. Geografiska Annaler, Series A: Physical Geography, 2002, 84, 89-102.	1.5	49
103	Fallout beryllium-7 as a tracer in soil erosion investigations. Applied Radiation and Isotopes, 1999, 51, 599-605.	1.5	108
104	Use of7Be and137Cs measurements to document short- and medium-term rates of water-induced soil erosion on agricultural land. Water Resources Research, 1999, 35, 3865-3874.	4.2	162
105	Title is missing!. Journal of Paleolimnology, 1998, 20, 1-14.	1.6	5