

# William H Blake

## List of Publications by Year in descending order

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Version: 2024-02-01

105  
papers

4,017  
citations

136740

32  
h-index

128067

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. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71881-71896.	2.7	4
2	Evaluating spatio-temporal soil erosion dynamics in the Winam Gulf catchment, Kenya for enhanced decision making in the land-lake interface. <i>Science of the Total Environment</i> , 2022, 815, 151975.	3.9	10
3	Particle size effect on geochemical composition of experimental soil mixtures relevant for unmixing modelling. <i>Geomorphology</i> , 2022, 403, 108178.	1.1	9
4	Integrating land-water-people connectivity concepts across disciplines for co-design of soil erosion solutions. <i>Land Degradation and Development</i> , 2021, 32, 3415-3430.	1.8	16
5	Spatial distribution of sediment phosphorus in a Ramsar wetland. <i>Science of the Total Environment</i> , 2021, 765, 142749.	3.9	13
6	Sediment source apportionment following wildfire in an upland commercial forest catchment. <i>Journal of Soils and Sediments</i> , 2021, 21, 2432-2449.	1.5	4
7	Channel erosion dominates sediment sources in an agricultural catchment in the Upper Yangtze basin of China: Evidence from geochemical fingerprints. <i>Catena</i> , 2021, 199, 105111.	2.2	21
8	Drivers, Impacts and Mitigation of Increased Sedimentation in the Hydropower Reservoirs of East Africa. <i>Land</i> , 2021, 10, 638.	1.2	17
9	Accumulation and bioconcentration of heavy metals in two phases from agricultural soil to plants in Usangu agroecosystem-Tanzania. <i>Heliyon</i> , 2021, 7, e07514.	1.4	15
10	Reconstructing the Changes in Sedimentation and Source Provenance in East African Hydropower Reservoirs: A Case Study of Nyumba ya Mungu in Tanzania. <i>Earth</i> , 2021, 2, 485-514.	0.9	3
11	Soil fertility and land sustainability in Usangu Basin-Tanzania. <i>Heliyon</i> , 2021, 7, e07745.	1.4	11
12	Exploring Relationship between Perception Indicators and Mitigation Behaviors of Soil Erosion in Undergraduate Students in Sonora, Mexico. <i>Sustainability</i> , 2021, 13, 9282.	1.6	1
13	Assessment of arsenic status and distribution in Usangu agro-ecosystem-Tanzania. <i>Journal of Environmental Management</i> , 2021, 294, 113012.	3.8	2
14	Characterization of soil phosphate status, sorption and saturation in paddy wetlands in usangu basin-Tanzania. <i>Chemosphere</i> , 2021, 278, 130466.	4.2	8
15	Soil erosion and sediment transport in Tanzania: Part II " sedimentological evidence of phased land degradation. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 3112-3126.	1.2	7
16	Toxic metals in East African agro-ecosystems: Key risks for sustainable food production. <i>Journal of Environmental Management</i> , 2021, 294, 112973.	3.8	31
17	Soil erosion and sediment transport in Tanzania: Part I " sediment source tracing in three neighbouring river catchments. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 3096-3111.	1.2	10
18	Evaluating the effectiveness of soil conservation at the basin scale using floodplain sedimentary archives. <i>Science of the Total Environment</i> , 2021, 792, 148414.	3.9	3

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19	Land use patterns influence the distribution of potentially toxic elements in soils of the Usangu Basin, Tanzania. <i>Chemosphere</i> , 2021, 284, 131410.	4.2	0
20	Building Climate Change Adaptation and Resilience through Soil Organic Carbon Restoration in Sub-Saharan Rural Communities: Challenges and Opportunities. <i>Sustainability</i> , 2021, 13, 10966.	1.6	10
21	Evaluating Soil Carbon as a Proxy for Erosion Risk in the Spatio-Temporal Complex Hydropower Catchment in Upper Pangani, Northern Tanzania. <i>Earth</i> , 2021, 2, 764-780.	0.9	4
22	“Mind the Gap”™: Reconnecting Local Actions and Multi-Level Policies to Bridge the Governance Gap. An Example of Soil Erosion Action from East Africa. <i>Land</i> , 2020, 9, 352.	1.2	6
23	Protecting the commons: Predictors of willingness to mitigate communal land degradation among Maasai pastoralists. <i>Journal of Environmental Psychology</i> , 2020, 72, 101504.	2.3	12
24	Exploring the potential of using <sup>7</sup> Be measurements to estimate soil redistribution rates in semi-arid areas: results from Western Iran and Southern Italy. <i>Journal of Soils and Sediments</i> , 2020, 20, 3524-3536.	1.5	6
25	Determining tributary sources of increased sedimentation in East-African Rift Lakes. <i>Science of the Total Environment</i> , 2020, 717, 137266.	3.9	36
26	Dataset on the 6-year radiocesium transport in rivers near Fukushima Daiichi nuclear power plant. <i>Scientific Data</i> , 2020, 7, 433.	2.4	8
27	Assessing the performance of a physically based hydrological model using a proxy catchment approach in an agricultural environment. <i>Hydrological Processes</i> , 2019, 33, 3119-3137.	1.1	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. <i>Journal of Soils and Sediments</i> , 2019, 19, 3319-3331.	1.5	11
29	10,000 years of climate control over carbon accumulation in an Iberian bog (southwestern Europe). <i>Geoscience Frontiers</i> , 2019, 10, 1521-1533.	4.3	15
30	“We will change whether we want it or not” Soil erosion in Maasai land as a social dilemma and a challenge to community resilience. <i>Journal of Environmental Psychology</i> , 2019, 66, 101365.	2.3	13
31	Extreme levels of fallout radionuclides and other contaminants in glacial sediment (cryoconite) and implications for downstream aquatic ecosystems. <i>Scientific Reports</i> , 2019, 9, 12531.	1.6	34
32	Transport and Redistribution of Radiocesium in Fukushima Fallout through Rivers. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12339-12347.	4.6	90
33	Drivers of increased soil erosion in East Africa’s agro-pastoral systems: changing interactions between the social, economic and natural domains. <i>Regional Environmental Change</i> , 2019, 19, 1909-1921.	1.4	62
34	Testing the mid-Holocene relative sea-level highstand hypothesis in North Wales, UK. <i>Holocene</i> , 2019, 29, 1491-1502.	0.9	2
35	Fingerprinting changes of source apportionments from mixed land uses in stream sediments before and after an exceptional rainstorm event. <i>Geomorphology</i> , 2019, 341, 216-229.	1.1	47
36	Differentiating the geographical origin of Ethiopian coffee using XRF- and ICP-based multi-element and stable isotope profiling. <i>Food Chemistry</i> , 2019, 290, 295-307.	4.2	36

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37	Fingerprinting changes in source contribution for evaluating soil response during an exceptional rainfall in Spanish pre-pyrenees. <i>Journal of Environmental Management</i> , 2019, 240, 136-148.	3.8	30
38	Foraminiferal evidence of major environmental changes driven by the sun-climate coupling in the western Portuguese coast (14th century to present). <i>Estuarine, Coastal and Shelf Science</i> , 2019, 218, 106-118.	0.9	5
39	Testing the sensitivity of a multivariate mixing model using geochemical fingerprints with artificial mixtures. <i>Geoderma</i> , 2019, 337, 498-510.	2.3	57
40	Isotope mixing models require individual isotopic tracer content for correct quantification of sediment source contributions. <i>Hydrological Processes</i> , 2018, 32, 981-989.	1.1	21
41	Impact of soil hydrological properties on the $7\text{Be}$ depth distribution and the spatial variation of $7\text{Be}$ inventories across a small catchment. <i>Geoderma</i> , 2018, 318, 88-98.	2.3	3
42	Self-attenuation corrections for Pb-210 in gamma-ray spectrometry using well and coaxial HPGe detectors. <i>Applied Radiation and Isotopes</i> , 2018, 134, 151-156.	0.7	7
43	Rapid and irreversible sorption behavior of $7\text{Be}$ assessed to evaluate its use as a catchment sediment tracer. <i>Journal of Environmental Radioactivity</i> , 2018, 182, 108-116.	0.9	4
44	Soil erosion in East Africa: an interdisciplinary approach to realising pastoral land management change. <i>Environmental Research Letters</i> , 2018, 13, 124014.	2.2	58
45	A deconvolutional Bayesian mixing model approach for river basin sediment source apportionment. <i>Scientific Reports</i> , 2018, 8, 13073.	1.6	57
46	Community managed forests dominate the catchment sediment cascade in the mid-hills of Nepal: A compound-specific stable isotope analysis. <i>Science of the Total Environment</i> , 2018, 637-638, 306-317.	3.9	30
47	Pinpointing areas of increased soil erosion risk following land cover change in the Lake Manyara catchment, Tanzania. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 71, 1-8.	1.4	33
48	Bioaccessibility of U, Th and Pb in solid wastes and soils from an abandoned uranium mine. <i>Journal of Environmental Radioactivity</i> , 2017, 173, 85-96.	0.9	22
49	Methodological perspectives on the application of compound-specific stable isotope fingerprinting for sediment source apportionment. <i>Journal of Soils and Sediments</i> , 2017, 17, 1537-1553.	1.5	46
50	The challenges and opportunities of addressing particle size effects in sediment source fingerprinting: A review. <i>Earth-Science Reviews</i> , 2017, 169, 85-103.	4.0	194
51	Aeolian sediment fingerprinting using a Bayesian mixing model. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 2365-2376.	1.2	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. <i>Science of the Total Environment</i> , 2017, 580, 324-338.	3.9	12
53	Temporal Dynamics of Sediment Sources in an Urbanizing Mediterranean Catchment. <i>Land Degradation and Development</i> , 2017, 28, 2354-2369.	1.8	17
54	Fingerprinting and tracing the sources of soils and sediments: Earth and ocean science, geoarchaeological, forensic, and human health applications. <i>Earth-Science Reviews</i> , 2016, 162, 1-23.	4.0	174

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55	Combining catchment modelling and sediment fingerprinting to assess sediment dynamics in a Spanish Pyrenean river system. <i>Science of the Total Environment</i> , 2016, 569-570, 1136-1148.	3.9	28
56	Temporal variability of beryllium-7 fallout in southwest UK. <i>Journal of Environmental Radioactivity</i> , 2016, 160, 80-86.	0.9	17
57	Quantifying the spatial variation of <sup>7</sup> Be depth distributions towards improved erosion rate estimations. <i>Geoderma</i> , 2016, 269, 10-18.	2.3	12
58	Identifying sediment sources by applying a fingerprinting mixing model in a Pyrenean drainage catchment. <i>Journal of Soils and Sediments</i> , 2015, 15, 2067-2085.	1.5	31
59	Determining riverine sediment storage mechanisms of biologically reactive phosphorus in situ using DGT. <i>Environmental Science and Pollution Research</i> , 2015, 22, 9816-9828.	2.7	15
60	Drivers of Holocene peatland carbon accumulation across a climate gradient in northeastern North America. <i>Quaternary Science Reviews</i> , 2015, 121, 110-119.	1.4	58
61	The interception and wash-off fraction of <sup>7</sup> Be by bean plants in the context of its use as a soil radiotracer. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 306, 301-308.	0.7	4
62	Preface—Addressing challenges to advance sediment fingerprinting research. <i>Journal of Soils and Sediments</i> , 2015, 15, 2033-2037.	1.5	28
63	Comparing catchment sediment fingerprinting procedures using an auto-evaluation approach with virtual sample mixtures. <i>Science of the Total Environment</i> , 2015, 532, 456-466.	3.9	79
64	Estimating Be-7 association with soil particle size fractions for erosion and deposition modelling. <i>Journal of Soils and Sediments</i> , 2014, 14, 1886-1893.	1.5	20
65	Recent environmental change in an upland reservoir catchment: a palaeoecological perspective. <i>Journal of Paleolimnology</i> , 2014, 52, 229-244.	0.8	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. <i>Solid Earth</i> , 2014, 5, 963-978.	1.2	21
67	Preface: environmental radioactivity: implications for human and environmental health. <i>Journal of Environmental Radioactivity</i> , 2014, 133, 1-4.	0.9	0
68	A 700year record of combustion-derived pollution in northern Spain: Tools to identify the Holocene/Anthropocene transition in coastal environments. <i>Science of the Total Environment</i> , 2014, 470-471, 240-247.	3.9	63
69	Sediment fingerprinting in agricultural catchments: A critical re-examination of source discrimination and data corrections. <i>Geomorphology</i> , 2014, 204, 177-191.	1.1	199
70	Fallout <sup>210</sup> Pb as a soil and sediment tracer in catchment sediment budget investigations: A review. <i>Earth-Science Reviews</i> , 2014, 138, 335-351.	4.0	194
71	Anthropogenic disruptions of the sedimentary record in coastal marshes: Examples from the southern Bay of Biscay (N. Spain). <i>Continental Shelf Research</i> , 2014, 86, 132-140.	0.9	10
72	Modelling particle residence times in agricultural river basins using a sediment budget model and fallout radionuclide tracers. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1944-1959.	1.2	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. <i>Scientific Reports</i> , 2014, 4, 3714.	1.6	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. <i>Quaternary Geochronology</i> , 2013, 15, 11-19.	0.6	16
75	Fate of <sup>90</sup> Sr and U(VI) in Dounreay sediments following saline inundation and erosion. <i>Chemosphere</i> , 2013, 92, 911-917.	4.2	8
76	Assumptions and challenges in the use of fallout beryllium-7 as a soil and sediment tracer in river basins. <i>Earth-Science Reviews</i> , 2013, 126, 85-95.	4.0	64
77	Influence of sediment redox conditions on uranium mobilisation during saline intrusion. <i>Chemical Geology</i> , 2013, 357, 158-163.	1.4	9
78	Relative sea-level rise in the Basque coast (N Spain): Different environmental consequences on the coastal area. <i>Ocean and Coastal Management</i> , 2013, 77, 3-13.	2.0	27
79	Discriminating fine sediment sources and the application of sediment tracers in burned catchments: a review. <i>Hydrological Processes</i> , 2013, 27, 943-958.	1.1	40
80	Interactions between sediments and water: perspectives on the 12th International Association for Sediment Water Science Symposium. <i>Journal of Soils and Sediments</i> , 2012, 12, 1497-1500.	1.5	3
81	Mobilization of Technetium from Reduced Sediments under Seawater Inundation and Intrusion Scenarios. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11798-11803.	4.6	21
82	Optimisation of beryllium-7 gamma analysis following BCR sequential extraction. <i>Analytica Chimica Acta</i> , 2012, 720, 91-96.	2.6	6
83	Tracing crop-specific sediment sources in agricultural catchments. <i>Geomorphology</i> , 2012, 139-140, 322-329.	1.1	121
84	Determining the effects of wildfire on sediment sources using <sup>137</sup> Cs and unsupported <sup>210</sup> Pb: the role of landscape disturbances and driving forces. <i>Journal of Soils and Sediments</i> , 2012, 12, 982-994.	1.5	51
85	Wildfire impacts on hillslope sediment and phosphorus yields. <i>Journal of Soils and Sediments</i> , 2010, 10, 671-682.	1.5	43
86	Sediment aggregation and water quality in wildfire-affected river basins. <i>Marine and Freshwater Research</i> , 2009, 60, 653.	0.7	16
87	Tide-driven dune migration and sediment transport on an intertidal shoal in a shallow estuary in Devon, UK. <i>Marine Geology</i> , 2009, 262, 82-95.	0.9	23
88	Deriving hillslope sediment budgets in wildfire-affected forests using fallout radionuclide tracers. <i>Geomorphology</i> , 2009, 104, 105-116.	1.1	90
89	Fallout radionuclide tracers identify a switch in sediment sources and transport-limited sediment yield following wildfire in a eucalypt forest. <i>Geomorphology</i> , 2009, 110, 140-151.	1.1	88
90	Impacts of landscape remediation on the heavy metal pollution dynamics of a lake surrounded by non-ferrous smelter waste. <i>Environmental Pollution</i> , 2007, 148, 268-280.	3.7	18

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91	Distinctiveness of wildfire effects on soil erosion in south-east Australian eucalypt forests assessed in a global context. <i>Forest Ecology and Management</i> , 2007, 238, 347-364.	1.4	107
92	Structural characteristics and behavior of fire-modified soil aggregates. <i>Journal of Geophysical Research</i> , 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. <i>Water, Air, and Soil Pollution</i> , 2007, 181, 107-113.	1.1	5
94	Effects of differing wildfire severities on soil wettability and implications for hydrological response. <i>Journal of Hydrology</i> , 2006, 319, 295-311.	2.3	246
95	Quantifying Fine-Sediment Sources in Primary and Selectively Logged Rainforest Catchments Using Geochemical Tracers. <i>Water, Air and Soil Pollution</i> , 2006, 6, 615-623.	0.8	11
96	Changes in Sediment Sources following Wildfire in Mountainous Terrain: A Paired-Catchment Approach, British Columbia, Canada. <i>Water, Air and Soil Pollution</i> , 2006, 6, 637-645.	0.8	21
97	Magnetic enhancement in wildfire-affected soil and its potential for sediment-source ascription. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 249-264.	1.2	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. <i>International Journal of Wildland Fire</i> , 2004, 13, 157.	1.0	125
100	Heavy metal concentrations during storm events in a rehabilitated industrialized catchment. <i>Hydrological Processes</i> , 2003, 17, 1923-1939.	1.1	42
101	Fire Severity, Water Repellency Characteristics and Hydrogeomorphological Changes Following the Christmas 2001 Sydney Forest Fires. <i>Australian Geographer</i> , 2003, 34, 147-175.	1.0	68
102	Using cosmogenic beryllium-7 as a tracer in sediment budget investigations. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2002, 84, 89-102.	0.6	49
103	Fallout beryllium-7 as a tracer in soil erosion investigations. <i>Applied Radiation and Isotopes</i> , 1999, 51, 599-605.	0.7	108
104	Use of <sup>7</sup> Be and <sup>137</sup> Cs measurements to document short- and medium-term rates of water-induced soil erosion on agricultural land. <i>Water Resources Research</i> , 1999, 35, 3865-3874.	1.7	162
105	Title is missing!. <i>Journal of Paleolimnology</i> , 1998, 20, 1-14.	0.8	5