

Barbara A Maher

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

8,496
citations

44
h-index

92
g-index

94
ext. papers

9,514
ext. citations

7.1
avg. IF

6.55
L-index

#	Paper	IF	Citations
89	Magnetic properties of some synthetic sub-micron magnetites. <i>Geophysical Journal International</i> , 1988 , 94, 83-96	2.6	569
88	Magnetic properties of modern soils and Quaternary loessic paleosols: paleoclimatic implications. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1998 , 137, 25-54	2.9	559
87	Magnetite pollution nanoparticles in the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10797-801	11.5	516
86	Frequency-dependent susceptibility measurements of environmental materials. <i>Geophysical Journal International</i> , 1996 , 124, 228-240	2.6	508
85	Formation of ultrafine-grained magnetite in soils. <i>Nature</i> , 1988 , 336, 368-370	50.4	462
84	Characterisation of soils by mineral magnetic measurements. <i>Physics of the Earth and Planetary Interiors</i> , 1986 , 42, 76-92	2.3	398
83	Global connections between aeolian dust, climate and ocean biogeochemistry at the present day and at the last glacial maximum. <i>Earth-Science Reviews</i> , 2010 , 99, 61-97	10.2	385
82	Paleorainfall Reconstructions from Pedogenic Magnetic Susceptibility Variations in the Chinese Loess and Paleosols. <i>Quaternary Research</i> , 1995 , 44, 383-391	1.9	342
81	Mineral magnetic record of the Chinese loess and paleosols. <i>Geology</i> , 1991 , 19, 3	5	323
80	Spatial and temporal reconstructions of changes in the Asian palaeomonsoon: A new mineral magnetic approach. <i>Earth and Planetary Science Letters</i> , 1994 , 125, 461-471	5.3	289
79	Early Pleistocene human occupation at the edge of the boreal zone in northwest Europe. <i>Nature</i> , 2010 , 466, 229-33	50.4	271
78	Paleoclimatic Significance of the Mineral Magnetic Record of the Chinese Loess and Paleosols. <i>Quaternary Research</i> , 1992 , 37, 155-170	1.9	253
77	Holocene variability of the East Asian summer monsoon from Chinese cave records: a re-assessment. <i>Holocene</i> , 2008 , 18, 861-866	2.6	179
76	The magnetic properties of Quaternary aeolian dusts and sediments, and their palaeoclimatic significance. <i>Aeolian Research</i> , 2011 , 3, 87-144	3.9	160
75	Magnetic mineralogy of soils across the Russian Steppe: climatic dependence of pedogenic magnetite formation. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003 , 201, 321-341	2.9	154
74	Palaeoclimatic records of the loess/palaeosol sequences of the Chinese Loess Plateau. <i>Quaternary Science Reviews</i> , 2016 , 154, 23-84	3.9	147
73	Oxygen isotopes from Chinese caves: records not of monsoon rainfall but of circulation regime. <i>Journal of Quaternary Science</i> , 2012 , 27, 615-624	2.3	145

72	Particulate matter deposited on leaf of five evergreen species in Beijing, China: Source identification and size distribution. <i>Atmospheric Environment</i> , 2015 , 105, 53-60	5.3	128
71	Particle-size related, mineral magnetic source sediment linkages in the Rhode River catchment, Maryland, USA. <i>Journal of the Geological Society</i> , 1985 , 142, 1035-1046	2.7	124
70	Quantifying grain size distribution of pedogenic magnetic particles in Chinese loess and its significance for pedogenesis. <i>Journal of Geophysical Research</i> , 2005 , 110,		117
69	Rates of particulate pollution deposition onto leaf surfaces: temporal and inter-species magnetic analyses. <i>Environmental Pollution</i> , 2010 , 158, 1472-8	9.3	114
68	A high-resolution record of Holocene rainfall variations from the western Chinese Loess Plateau: antiphase behaviour of the African/Indian and East Asian summer monsoons. <i>Holocene</i> , 2006 , 16, 309-319	3.6	113
67	Magnetite in soils: I. The synthesis of single-domain and superparamagnetic magnetite. <i>Clay Minerals</i> , 1986 , 22, 411-422	1.3	102
66	Quantitative extraction and analysis of carriers of magnetization in sediments. <i>Geophysical Journal International</i> , 1996 , 124, 57-74	2.6	93
65	Holocene loess accumulation and soil development at the western edge of the Chinese Loess Plateau: implications for magnetic proxies of palaeorainfall. <i>Quaternary Science Reviews</i> , 2003 , 22, 445-459	3.9	85
64	Magnetic monitoring of air- land- and water-pollution 1999 , 279-322		84
63	Fingerprinting upland sediment sources: particle size-specific magnetic linkages between soils, lake sediments and suspended sediments. <i>Earth Surface Processes and Landforms</i> , 2009 , 34, 1359-1373	3.7	83
62	The spatial-temporal characteristics and health impacts of ambient fine particulate matter in China. <i>Journal of Cleaner Production</i> , 2016 , 112, 1312-1318	10.3	73
61	Impact of roadside tree lines on indoor concentrations of traffic-derived particulate matter. <i>Environmental Science & Technology</i> , 2013 , 47, 13737-44	10.3	73
60	Airborne, Vehicle-Derived Fe-Bearing Nanoparticles in the Urban Environment: A Review. <i>Environmental Science & Technology</i> , 2019 , 53, 9970-9991	10.3	72
59	Magnetic and geochemical characteristics of Gobi Desert surface sediments: Implications for provenance of the Chinese Loess Plateau. <i>Geology</i> , 2009 , 37, 279-282	5	72
58	Holocene sediment-accumulation rates in the western Loess Plateau, China, and a 2500-year record of agricultural activity, revealed by OSL dating. <i>Holocene</i> , 2001 , 11, 477-483	2.6	72
57	Evidence against dust-mediated control of glacial-interglacial changes in atmospheric CO ₂ . <i>Nature</i> , 2001 , 411, 176-80	50.4	71
56	Mechanism of the magnetic susceptibility enhancements of the Chinese loess. <i>Journal of Geophysical Research</i> , 2004 , 109,		67
55	Combustion- and friction-derived magnetic air pollution nanoparticles in human hearts. <i>Environmental Research</i> , 2019 , 176, 108567	7.9	66

54	Sediment provenance in a tropical fluvial and marine context by magnetic fingerprinting of transportable sand fractions. <i>Sedimentology</i> , 2009 , 56, 841-861	3.3	62
53	Biomagnetic monitoring of industry-derived particulate pollution. <i>Environmental Pollution</i> , 2011 , 159, 1673-81	9.3	61
52	Biomagnetic Monitoring of Atmospheric Pollution: A Review of Magnetic Signatures from Biological Sensors. <i>Environmental Science & Technology</i> , 2017 , 51, 6648-6664	10.3	60
51	Environmental magnetism and climate change. <i>Contemporary Physics</i> , 2007 , 48, 247-274	3.3	56
50	Holocene environmental change from magnetic proxies in lake sediments 1999 , 231-278		51
49	Rain and Dust: Magnetic Records of Climate and Pollution. <i>Elements</i> , 2009 , 5, 229-234	3.8	49
48	Suspended sediment characterization and tracing using a magnetic fingerprinting technique: Bassenthwaite Lake, Cumbria, UK. <i>Holocene</i> , 2008 , 18, 105-115	2.6	46
47	Ocean circulation at the Last Glacial Maximum: A combined modeling and magnetic proxy-based study. <i>Paleoceanography</i> , 2007 , 22,		44
46	Source of the climate signal recorded by magnetic susceptibility variations in Indian Ocean sediments. <i>Journal of Geophysical Research</i> , 1999 , 104, 5047-5061		44
45	Grain sizes of susceptibility and anhysteretic remanent magnetization carriers in Chinese loess/paleosol sequences. <i>Journal of Geophysical Research</i> , 2004 , 109,		40
44	Age models, sediment fluxes and palaeoclimatic reconstructions for the Chinese loess and palaeosol sequences. <i>Geophysical Journal International</i> , 1995 , 123, 611-622	2.6	39
43	Efficient Removal of Ultrafine Particles from Diesel Exhaust by Selected Tree Species: Implications for Roadside Planting for Improving the Quality of Urban Air. <i>Environmental Science & Technology</i> , 2019 , 53, 6906-6916	10.3	37
42	Reduced repressive epigenetic marks, increased DNA damage and Alzheimer's disease hallmarks in the brain of humans and mice exposed to particulate urban air pollution. <i>Environmental Research</i> , 2020 , 183, 109226	7.9	37
41	Identification and paleoclimatic significance of magnetite nanoparticles in soils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1736-1741	11.5	37
40	Rapid magnetic biomonitoring and differentiation of atmospheric particulate pollutants at the roadside and around two major industrial sites in the U.K. <i>Environmental Science & Technology</i> , 2012 , 46, 4403-10	10.3	37
39	Airborne Magnetite- and Iron-Rich Pollution Nanoparticles: Potential Neurotoxicants and Environmental Risk Factors for Neurodegenerative Disease, Including Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2019 , 71, 361-375	4.3	36
38	Iron-rich air pollution nanoparticles: An unrecognised environmental risk factor for myocardial mitochondrial dysfunction and cardiac oxidative stress. <i>Environmental Research</i> , 2020 , 188, 109816	7.9	35
37	Sediment source variations and lead-210 inventories in recent Potomac Estuary sediment cores. <i>Journal of Quaternary Science</i> , 2010 , 4, 189-200	2.3	33

36	Pedogenesis and paleoclimate: Interpretation of the magnetic susceptibility record of Chinese loess-paleosol sequences: Comments and Reply. <i>Geology</i> , 1994 , 22, 857	5	32
35	Evidence for the presence of air pollution nanoparticles in placental tissue cells. <i>Science of the Total Environment</i> , 2021 , 751, 142235	10.2	30
34	Palaeomagnetic correlation and dating of Plio/Pleistocene sediments at the southern margins of the North Sea Basin. <i>Journal of Quaternary Science</i> , 2005 , 20, 67-77	2.3	26
33	Sediment dynamics in an upland temperate catchment: changing sediment sources, rates and deposition. <i>Journal of Paleolimnology</i> , 2008 , 40, 1143-1158	2.1	21
32	Source apportionment of magnetite particles in roadside airborne particulate matter. <i>Science of the Total Environment</i> , 2021 , 752, 141828	10.2	21
31	Incidence and significance of magnetic iron sulphides in Quaternary sediments and soils 1999 , 199-230		20
30	Quadruple abnormal protein aggregates in brainstem pathology and exogenous metal-rich magnetic nanoparticles (and engineered Ti-rich nanorods). The substantia nigrae is a very early target in young urbanites and the gastrointestinal tract a key brainstem portal. <i>Environmental Research</i> , 2020 , 191, 110139	7.9	20
29	Diagenesis and remobilization of carbon and sulfur in mid-Pleistocene organic-rich freshwater sediment. <i>Journal of Sedimentary Research</i> , 1998 , 68, 37-42	2.1	19
28	Magnetic carriers and remanence mechanisms in magnetite-poor sediments of Pleistocene age, southern North Sea margin. <i>Journal of Quaternary Science</i> , 2005 , 20, 79-94	2.3	18
27	The dating and interpretation of a Mode 1 site in the Luangwa Valley, Zambia. <i>Journal of Human Evolution</i> , 2011 , 60, 549-70	3.1	17
26	Holocene sediment dynamics in an upland temperate lake catchment: climatic and land-use impacts in the English Lake District. <i>Holocene</i> , 2009 , 19, 427-438	2.6	17
25	Association of ²¹⁰ Po(²¹⁰ Pb), ²³⁹ + ²⁴⁰ Pu and ²⁴¹ Am with different mineral fractions of a beach sand at Seascale, Cumbria, UK. <i>Science of the Total Environment</i> , 2000 , 254, 1-15	10.2	17
24	Origin, abundance and storage of organic carbon and sulphur in the Holocene Humber Estuary: emphasizing human impact on storage changes. <i>Geological Society Special Publication</i> , 2000 , 166, 145-170	1.7	16
23	Application of a magnetic extraction technique to assess radionuclide-mineral association in Cumbrian shoreline sediments. <i>Journal of Environmental Radioactivity</i> , 2004 , 77, 111-31	2.4	15
22	Thermal enhancement of natural magnetism as a tool for tracing eroded soil. <i>Earth Surface Processes and Landforms</i> , 2012 , 37, 1567-1572	3.7	13
21	Bacterial magnetite and the Quaternary record 1999 , 163-198		13
20	Sedimentary evolution of the north Norfolk barrier coastline in the context of Holocene sea-level change. <i>Geological Society Special Publication</i> , 2000 , 166, 219-251	1.7	12
19	Connection of the proto-Yangtze River to the East China Sea traced by sediment magnetic properties. <i>Geomorphology</i> , 2018 , 303, 162-171	4.3	12

18	Analysis and interpretation of Holocene sedimentary sequences in the Humber Estuary. <i>Geological Society Special Publication</i> , 2000 , 166, 9-39	1.7	11
17	Rock Magnetic and Palaeomagnetic Studies of British Speleothems.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1993 , 45, 143-153		10
16	Magnetic mineralogy of sandstones from the Lunde Formation (late Triassic), northern North Sea, UK: origin of the palaeomagnetic signal. <i>Geological Society Special Publication</i> , 1995 , 98, 119-147	1.7	9
15	Indoor particulate air pollution from open fires and the cognitive function of older people. <i>Environmental Research</i> , 2021 , 192, 110298	7.9	8
14	Size-resolved, quantitative evaluation of the magnetic mineralogy of airborne brake-wear particulate emissions. <i>Environmental Pollution</i> , 2021 , 288, 117808	9.3	8
13	Magnetic cyclostratigraphy: high-resolution dating in and beyond the Quaternary and analysis of periodic changes in diagenesis and sedimentary magnetism 1999 , 352-382		7
12	Reprint of: The spatial-temporal characteristics and health impacts of ambient fine particulate matter in China. <i>Journal of Cleaner Production</i> , 2017 , 163, S352-S358	10.3	6
11	Origin of soil magnetite. <i>Nature</i> , 1989 , 340, 106-106	50.4	6
10	Variation in the concentration and regional distribution of magnetic nanoparticles in human brains, with and without Alzheimer's disease, from the UK. <i>Scientific Reports</i> , 2021 , 11, 9363	4.9	5
9	Inorganic Formation of Ultrafine-Grained Magnetite 1991 , 179-191		5
8	The significance of magnetotactic bacteria for the palaeomagnetic and rock magnetic record of Quaternary sediments and soils. <i>Geological Society Special Publication</i> , 1999 , 151, 43-46	1.7	3
7	Magnetostratigraphic correlations in two cores from the late Triassic Lunde Formation, Beryl Field, northern North Sea, UK. <i>Geological Society Special Publication</i> , 1995 , 98, 163-172	1.7	3
6	A Multi-Proxy Approach to Unravel Late Pleistocene Sediment Flux and Bottom Water Conditions in the Western South Atlantic Ocean. <i>Paleoceanography and Paleoclimatology</i> , 2021 , 36, e2020PA004058 ^{3.3}		2
5	Biomagnetic Characterization of Air Pollution Particulates in Lahore, Pakistan. <i>Geochemistry, Geophysics, Geosystems</i> , 2022 , 23,	3.6	1
4	Mineral Dust and Climate: Working Group on Dust and Climate Joint INQUA/QUEST Workshop; Villefranche-sur-Mer, France, 19-22 October 2008. <i>Eos</i> , 2009 , 90, 139	1.5	
3	Application of a magnetic extraction technique to assess radionuclide-mineral association in Cumbrian shoreline sediments. <i>Journal of Environmental Radioactivity</i> , 2004 , 77, 111-111	2.4	
2	Reply to letter to the editor by Clemens and Prell. <i>Quaternary Research</i> , 1992 , 38, 268	1.9	
1	Prolific shedding of magnetite nanoparticles from banknote surfaces. <i>Science of the Total Environment</i> , 2021 , 768, 144490	10.2	

