Ben J Williamson

List of Publications by Year in descending order

48 papers	1,650 citations	236925 25 h-index	289244 40 g-index
52 all docs	52 docs citations	52 times ranked	1964 citing authors

#	Article	IF	Citations
1	Chemistry and particle size distribution of respirable coal dust in underground mines in Central Eastern Europe. International Journal of Coal Science and Technology, 2022, 9, 1.	6.0	11
2	Textural indicators of mineralisation potential in porphyry magmatic systems â€“ A framework from the archetypal Yerington district, Nevada. Ore Geology Reviews, 2022, 143, 104783.	2.7	4
3	Selection of operational parameters for a smart spraying system to control airborne PM10 and PM2.5 dusts in underground coal mines. Chemical Engineering Research and Design, 2021, 148, 482-494.	5.6	21
4	Crystal mush dykes as conduits for mineralising fluids in the Yerington porphyry copper district, Nevada. Communications Earth & Environment, 2021, 2, .	6.8	6
5	Trace element fractionation between PM10 and PM2.5 in coal mine dust: Implications for occupational respiratory health. International Journal of Coal Geology, 2019, 203, 52-59.	5.0	76
6	Testing the Plagioclase Discriminator on the GEOROC Database to Identify Porphyryâ€Fertile Magmatic Systems in Japan. Resource Geology, 2018, 68, 138-143.	0.8	6
7	Alkali-F-Rich Albite Zones in Evolved NYF Pegmatites: The Product of Meltâ€“melt Immiscibility. Canadian Mineralogist, 2018, 56, 657-687.	1.0	20
8	Particulate matter produced during commercial sugarcane harvesting and processing: A respiratory health hazard?. Atmospheric Environment, 2017, 149, 34-46.	4.1	51
9	A review of the potential for rare-earth element resources from European red muds: examples from SeydiÅŸehir, Turkey and Parnassus-Giona, Greece. Mineralogical Magazine, 2016, 80, 43-61.	1.4	93
10	Porphyry copper enrichment linked to excess aluminium in plagioclase. Nature Geoscience, 2016, 9, 237-241.	12.9	76
11	Integrating dispersion modelling and lichen sampling to assess harmful heavy metal pollution around the Karabash copper smelter, Russian Federation. Atmospheric Pollution Research, 2015, 6, 939-945.	3.8	11
12	The Chemistry of Quartz in Granitic Pegmatites of Southern Norway: Petrogenetic and Economic Implications. Economic Geology, 2015, 110, 1737-1757.	3.8	71
13	The surface reactivity and implied toxicity of ash produced from sugarcane burning. Environmental Toxicology, 2014, 29, 503-516.	4.0	10
14	The Î±â€“Î² phase transition in volcanic cristobalite. Journal of Applied Crystallography, 2014, 47, 1205-1215.	4.5	73
15	The nature and formation of cristobalite at the SoufriÃ¨re Hills volcano, Montserrat: implications for the petrology and stability of silicic lava domes. Bulletin of Volcanology, 2013, 75, 1.	3.0	84
16	Lichen monitoring as a potential tool in environmental forensics: case study of the Cu smelter and former mining town of Karabash, Russia. Geological Society Special Publication, 2013, 384, 133-146.	1.3	19
17	Lacustrine sediments and lichen transplants: two contrasting and complimentary environmental archives of natural and anthropogenic lead in the South Urals, Russia. Aquatic Sciences, 2013, 75, 185-198.	1.5	11
18	Automated Mineralogical Analysis of PM₁₀: New Parameters for Assessing PM Toxicity. Environmental Science & Technology, 2013, 47, 5570-5577.	10.0	17

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19	The structure of volcanic cristobalite in relation to its toxicity; relevance for the variable crystalline silica hazard. Particle and Fibre Toxicology, 2012, 9, 44.	6.2	44
20	Testing a new method for quantifying Si in silica-rich biomass using HF in a closed vessel microwave digestion system. Analytical Methods, 2011, 3, 1752.	2.7	15
21	A physico-chemical assessment of the health hazard of Mt. Vesuvius volcanic ash. Journal of Volcanology and Geothermal Research, 2010, 191, 222-232.	2.1	33
22	A Note on the Relationship Between Some Saxicolous Lichens and Manganese Ore in North Wales, UK. Geomicrobiology Journal, 2010, 27, 349-352.	2.0	4
23	Injection of vesicular magma into an andesitic dome at the effusiveâ€“explosive transition. Earth and Planetary Science Letters, 2010, 295, 83-90.	4.4	25
24	Generation of crystalline silica from sugarcane burning. Journal of Environmental Monitoring, 2010, 12, 1459.	2.1	49
25	A rapid method for quantifying single mineral phases in heterogeneous natural dusts using X-ray diffraction. Powder Diffraction, 2009, 24, 17-23.	0.2	21
26	The lichen transplant methodology in the source apportionment of metal deposition around a copper smelter in the former mining town of Karabash, Russia. Environmental Monitoring and Assessment, 2008, 141, 227-236.	2.7	19
27	Production of potentially hazardous respirable silica airborne particulate from the burning of sugarcane. Atmospheric Environment, 2008, 42, 5558-5568.	4.1	34
28	Discriminating bacterial from electrochemical corrosion using Fe isotopes. Corrosion Science, 2007, 49, 3759-3764.	6.6	2
29	Biogeochemical signatures in the lichen Hypogymnia physodes in the mid Urals. Journal of Environmental Radioactivity, 2006, 90, 151-162.	1.7	11
30	Origin of quartz cores in tourmaline from Roche Rock, SW England. Mineralogical Magazine, 2005, 69, 381-401.	1.4	9
31	Impact of copper smelting on lakes in the southern Ural Mountains, Russia, inferred from chironomids. Journal of Paleolimnology, 2005, 33, 229-241.	1.6	42
32	Occurrence and Origin of Andalusite in Peraluminous Felsic Igneous Rocks. Journal of Petrology, 2005, 46, 441-472.	2.8	89
33	Uranium Biosorption by the LichenTrapelia involutaat a Uranium Mine. Geomicrobiology Journal, 2004, 21, 159-167.	2.0	44
34	Lichen biomonitoring near Karabash Smelter Town, Ural Mountains, Russia, one of the most polluted areas in the world. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 221-226.	2.6	37
35	SEM-EDX analysis in the source apportionment of particulate matter on Hypogymnia physodes lichen transplants around the Cu smelter and former mining town of Karabash, South Urals, Russia. Science of the Total Environment, 2004, 322, 139-154.	8.0	48
36	Characterisation of Airborne Particulate Pollution in The Cu Smelter and Former Mining Town of Karabash, South Ural Mountains of Russia. Environmental Monitoring and Assessment, 2004, 98, 235-259.	2.7	35

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37	Lead Isotopes in Lichen Transplants around a Cu Smelter in Russia Determined by MC-ICP-MS Reveal Transient Records of Multiple Sources. Environmental Science & Technology, 2004, 38, 6522-6528.	10.0	54
38	Characterization of respirable volcanic ash from the SoufriÃ¨re Hills volcano, Montserrat, with implications for human health hazards. Bulletin of Volcanology, 2003, 65, 346-362.	3.0	84
39	Assessment of environmental impacts of active smelter operations and abandoned mines in Karabash, Ural Mountains of Russia. Sustainable Development, 2003, 11, 133-142.	12.5	33
40	Formation of coagulated colloidal silica in high-temperature mineralizing fluids. Mineralogical Magazine, 2002, 66, 547-553.	1.4	17
41	Mineralogical composition of atmospheric airborne particulates. Geology Today, 2001, 17, 32-35.	0.9	2
42	Bioaccumulation of lead by the lichen Acarospora smaragdula from smelter emissions. New Phytologist, 2000, 147, 591-599.	7.3	35
43	Geochemical Constraints from Zoned Hydrothermal Tourmalines on Fluid Evolution and Sn Mineralization: an Example from Fault Breccias at Roche, SW England. Journal of Petrology, 2000, 41, 1439-1453.	2.8	56
44	Role for lichen melanins in uranium remediation. Nature, 1998, 391, 649-650.	27.8	58
45	Spectral gamma ray logs: core to log calibration, facies analysis and correlation problems in the Southern North Sea. Geological Society Special Publication, 1998, 136, 1-7.	1.3	8
46	Implications from inclusions in topaz for greisenisation and mineralisation in the Hensbarrow topaz granite, Cornwall, England. Contributions To Mineralogy and Petrology, 1997, 127, 119-128.	3.1	30
47	The relationship between crustal magmatic underplating and granite genesis: an example from the Velay granite complex, Massif Central, France. Special Paper of the Geological Society of America, 1992, , 235-246.	0.5	6
48	The relationship between crustal magmatic underplating and granite genesis: an example from the Velay granite complex, Massif Central, France. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 1992, 83, 235-245.	0.3	41