Antoni E Milodowski

List of Publications by Year
in descending order

37 papers	683 citations	623699 14 h-index	580810 25 g-index
37 all docs	37 docs citations	37 times ranked	910 citing authors

#	Article	IF	Citations
1	Characterisation of Uranophane and Boltwoodite by Raman, luminescence and laser-induced breakdown spectroscopy. Applied Geochemistry, 2022, 138, 105183.	3.0	4
2	Characterisation of andersonite by Raman, luminescence and laser-induced breakdown spectroscopy. Applied Geochemistry, 2022, 142, 105353.	3.0	1
3	Natural analogue evidence for controls on radionuclide uptake by fractured crystalline rock. Applied Geochemistry, 2021, 124, 104812.	3.0	4
4	Gel Formation at the Front of Expanding Calcium Bentonites. Minerals (Basel, Switzerland), 2021, 11, 215.	2.0	6
5	The use of Raman and TRLF spectroscopy for differentiating early stage alteration products of spent nuclear fuel. Applied Geochemistry, 2021, 130, 104934.	3.0	6
6	Carbonation rate and microstructural alterations of class G cement under geological storage conditions. Applied Geochemistry, 2021, 131, 105007.	3.0	6
7	The Croker Carbonate Slabs: extensive methane-derived authigenic carbonate in the Irish Seaâ€”nature, origin, longevity and environmental significance. Geo-Marine Letters, 2020, 40, 423-438.	1.1	13
8	Characterisation of meta-autunite: Towards identifying potential alteration products of spent nuclear fuel. Applied Geochemistry, 2020, 123, 104792.	3.0	6
9	Retention of technetium-99 by grout and backfill cements: Implications for the safe disposal of radioactive waste. Applied Geochemistry, 2020, 116, 104580.	3.0	16
10	Laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) Uâ€“Pb carbonate geochronology: strategies, progress, and limitations. Geochronology, 2020, 2, 33-61.	2.5	129
11	Gaseous carbonation of cementitious backfill for geological disposal of radioactive waste: Nirex Reference Vault Backfill. Applied Geochemistry, 2019, 106, 120-133.	3.0	7
12	Subsurface Microbial Hydrogen Cycling: Natural Occurrence and Implications for Industry. Microorganisms, 2019, 7, 53.	3.6	95
13	Determining constraints imposed by salt fabrics on the morphology of solution-mined energy storage cavities, through dissolution experiments using brine and seawater in halite. Quarterly Journal of Engineering Geology and Hydrogeology, 2019, 52, 240-254.	1.4	6
14	Environmental change during MIS4 and MIS 3 opened corridors in the Horn of Africa for Homo sapiens expansion. Quaternary Science Reviews, 2018, 202, 139-153.	3.0	23
15	Palaeohydrogeology using geochemical, isotopic and mineralogical analyses: Salinity and redox evolution in a deep groundwater system through Quaternary glacial cycles. Applied Geochemistry, 2018, 97, 40-60.	3.0	17
16	Interactions between Simulant Vitrified Nuclear Wastes and high pH solutions: A Natural Analogue Approach. MRS Advances, 2017, 2, 669-675.	0.9	4
17	Assessing the Long-Term Behaviour of the Industrial Bentonites Employed in a Repository for Radioactive Wastes by Studying Natural Bentonites in the Field. Geosciences (Switzerland), 2017, 7, 5.	2.2	3
18	Minimal alteration of montmorillonite following long-term interaction with natural alkaline groundwater: Implications for geological disposal of radioactive waste. Applied Geochemistry, 2016, 66, 184-197.	3.0	18

#	Article	IF	Citations
19	Herbert's Quarry, South Wales â€“ an analogue for host-rock alteration at a cementitious radioactive waste repository?. Mineralogical Magazine, 2015, 79, 1407-1418.	1.4	2
20	The mineralogy and fabric of â€˜Brickearthsâ€™ in Kent, UK and their relationship to engineering behaviour. Bulletin of Engineering Geology and the Environment, 2015, 74, 1187-1211.	3.5	33
21	Rock alteration in alkaline cement waters over 15 years and its relevance to the geological disposal of nuclear waste. Applied Geochemistry, 2014, 50, 91-105.	3.0	43
22	Preliminary Investigation on the Chemical Response of Cementitious Grouts Used for Borehole Sealing of Geologically Stored CO2. Energy Procedia, 2014, 59, 174-181.	1.8	4
23	Mineralogical comparisons of experimental results investigating the biological impacts on rock transport processes. Environmental Sciences: Processes and Impacts, 2013, 15, 1501.	3.5	1
24	Behaviour of radionuclides in the presence of superplasticiser. Advances in Cement Research, 2013, 25, 32-43.	1.6	11
25	Carbonation of borehole seals: Comparing evidence from short-term laboratory experiments and long-term natural analogues. Applied Geochemistry, 2013, 30, 161-177.	3.0	27
26	New insights from 3D geological models at analogue CO ₂ storage sites in Lincolnshire and eastern Scotland, UK. Proceedings of the Yorkshire Geological Society, 2012, 59, 53-76.	0.3	7
27	The role of periâ€glacial active layer development in determining soilâ€regolith thickness across a Triassic sandstone outcrop in the UK. Earth Surface Processes and Landforms, 2012, 37, 971-983.	2.5	5
28	Fracture transmissivity as a function of normal and shear stress: First results in Opalinus Clay. Physics and Chemistry of the Earth, 2011, 36, 1960-1971.	2.9	39
29	A natural analogue study of CO2 -cement interaction: Carbonation of calcium silicate hydrate-bearing rocks from Northern Ireland. Energy Procedia, 2011, 4, 5235-5242.	1.8	6
30	Evaluation of the Long-Term Evolution of the Groundwater System in the Mizunami Area, Japan. , 2010, , .		1
31	Reply: Evidence for episodic dust accretion in SE England. Journal of Quaternary Science, 2008, 23, 307-308.	2.1	1
32	New OSL dating of UK loess: indications of two phases of Late Glacial dust accretion in SE England and climate implications. Journal of Quaternary Science, 2007, 22, 361-371.	2.1	14
33	Changing patterns of radionuclide distribution in Irish Sea subtidal sediments. Journal of Environmental Radioactivity, 2007, 96, 63-74.	1.7	7
34	Evaluation of a method for identification of host physico-chemical phases for trace metals and measurement of their solid-phase partitioning in soil samples by nitric acid extraction and chemometric mixture resolution. Geochemistry: Exploration, Environment, Analysis, 2004, 4, 71-86.	0.9	48
35	Contrasting patterns of pore-system modification due to dolomitization and fracturing in Dinantian basin-margin carbonates from the UK. Geological Society Special Publication, 2004, 235, 325-348.	1.3	3
36	An experimental evaluation of the reaction of granite with streamwater, seawater and NaCl solutions at 200Â°C. Journal of Volcanology and Geothermal Research, 1993, 57, 167-191.	2.1	20

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37	Hydrothermal alteration of granite by meteoric fluid: an example from the Carnmenellis Granite, United Kingdom. Contributions To Mineralogy and Petrology, 1987, 96, 391-405.	3.1	47