

# Benjamin M Butler

## List of Publications by Year in descending order

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16  
papers

376  
citations

933447

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940533

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18  
all docs

18  
docs citations

18  
times ranked

323  
citing authors

#	ARTICLE	IF	CITATIONS
1	powdR: An R package for quantitative mineralogy using full pattern summation of X-ray powder diffraction data. <i>Computers and Geosciences</i> , 2021, 147, 104662.	4.2	18
2	A Geochemical and Agronomic Evaluation of Technosols Made from Construction and Demolition Fines Mixed with Green Waste Compost. <i>Agronomy</i> , 2021, 11, 649.	3.0	5
3	Enzyme activities and microbial functional diversity in metal(loid) contaminated soils near to a copper smelter. <i>Science of the Total Environment</i> , 2021, 779, 146423.	8.0	30
4	Laboratory exploration of mineral precipitates from Europa's subsurface ocean. <i>Journal of Applied Crystallography</i> , 2021, 54, 1455-1479.	4.5	1
5	AUTOMATED FULL-PATTERN SUMMATION OF X-RAY POWDER DIFFRACTION DATA FOR HIGH-THROUGHPUT QUANTIFICATION OF CLAY-BEARING MIXTURES. <i>Clays and Clay Minerals</i> , 2021, 69, 38-51.	1.3	8
6	Mineral sources of aqua regia extractable base cations in Scottish soils interpreted from Cubist models trained with quantitative mineralogy data. <i>Chemical Geology</i> , 2020, 551, 119773.	3.3	3
7	Meta-analysis of heavy metal effects on soil enzyme activities. <i>Science of the Total Environment</i> , 2020, 737, 139744.	8.0	152
8	Soil quality indices for metal(loid) contamination: An enzymatic perspective. <i>Land Degradation and Development</i> , 2020, 31, 2700-2719.	3.9	44
9	Mineral-nutrient relationships in African soils assessed using cluster analysis of X-ray powder diffraction patterns and compositional methods. <i>Geoderma</i> , 2020, 375, 114474.	5.1	26
10	Pre-treatment of soil X-ray powder diffraction data for cluster analysis. <i>Geoderma</i> , 2019, 337, 413-424.	5.1	12
11	A slow-cooling-rate in situ cell for long-duration studies of mineral precipitation in cold aqueous environments on Earth and other planetary bodies. <i>Journal of Applied Crystallography</i> , 2018, 51, 1197-1210.	4.5	1
12	Using rule-based regression models to predict and interpret soil properties from X-ray powder diffraction data. <i>Geoderma</i> , 2018, 329, 43-53.	5.1	16
13	Gypsum and hydrohalite dynamics in sea ice brines. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 213, 17-34.	3.9	8
14	The effect of mirabilite precipitation on the absolute and practical salinities of sea ice brines. <i>Marine Chemistry</i> , 2016, 184, 21-31.	2.3	11
15	Mirabilite solubility in equilibrium sea ice brines. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 182, 40-54.	3.9	24
16	An investigation of mineral dynamics in frozen seawater brines by direct measurement with synchrotron X-ray powder diffraction. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5686-5697.	2.6	17