Benjamin M Tutolo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mineralogical characterization and thermodynamic modelling of scales formed in once through steam generators. Fuel, 2022, 308, 121990.	3.4	1
2	Evaluation of the potential of glauconite in the Western Canadian Sedimentary Basin for large-scale carbon dioxide mineralization. International Journal of Greenhouse Gas Control, 2022, 117, 103663.	2.3	5
3	PyGeochemCalc: A Python package for geochemical thermodynamic calculations from ambient to deep Earth conditions. Chemical Geology, 2022, 606, 120984.	1.4	13
4	Experimental partitioning of osmium between pyrite and fluid: Constraints on the mid-ocean ridge hydrothermal flux of osmium to seawater. Geochimica Et Cosmochimica Acta, 2021, 293, 240-255.	1.6	4
5	A Series of Data-Driven Hypotheses for Inferring Biogeochemical Conditions in Alkaline Lakes and Their Deposits Based on the Behavior of Mg and SiO2. Minerals (Basel, Switzerland), 2021, 11, 106.	0.8	14
6	Alkalinity Generation Constraints on Basalt Carbonation for Carbon Dioxide Removal at the Gigaton-per-Year Scale. Environmental Science & amp; Technology, 2021, 55, 11906-11915.	4.6	21
7	Geochemical evaluation of glauconite carbonation during sedimentary diagenesis. Geochimica Et Cosmochimica Acta, 2021, 306, 226-244.	1.6	8
8	Alternate routes to sustainable energy recovery from fossil fuels reservoirs. Part 1. Investigation of high-temperature reactions between sulfur oxy anions and crude oil. Fuel, 2021, 302, 121050.	3.4	7
9	Probing the application of kinetic theory to Mg-phyllosilicate growth with Si isotope doping. Geochimica Et Cosmochimica Acta, 2021, 310, 205-220.	1.6	5
10	Anhydrite replacement reaction in nodular pyrite breccia and its geochemical controls on the δ34S signature of pyrite in the TAG hydrothermal mound, 26° N Mid Atlantic Ridge. Lithos, 2021, 400-401, 106357.	0.6	2
11	A rate law for sepiolite growth at ambient temperatures and its implications for early lacustrine diagenesis. Geochimica Et Cosmochimica Acta, 2020, 288, 301-315.	1.6	6
12	A seawater throttle on H ₂ production in Precambrian serpentinizing systems. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14756-14763.	3.3	28
13	Magmatic carbon outgassing and uptake of CO2 by alkaline waters. American Mineralogist, 2020, 105, 28-34.	0.9	7
14	Experimental evaluation of the role of redox during glauconite-CO2-brine interactions. Applied Geochemistry, 2020, 115, 104558.	1.4	7
15	Anhydrite solubility in low-density hydrothermal fluids: Experimental measurements and thermodynamic calculations. Chemical Geology, 2019, 524, 184-195.	1.4	17
16	Serpentine–Hisingerite Solid Solution in Altered Ferroan Peridotite and Olivine Gabbro. Minerals (Basel, Switzerland), 2019, 9, 47.	0.8	22
17	Experimental examination of the Mg-silicate-carbonate system at ambient temperature: Implications for alkaline chemical sedimentation and lacustrine carbonate formation. Geochimica Et Cosmochimica Acta, 2018, 225, 80-101.	1.6	56
18	Serpentinization as a reactive transport process: The brucite silicification reaction. Earth and Planetary Science Letters, 2018, 484, 385-395.	1.8	34

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19	Magnetite authigenesis and the warming of early Mars. Nature Geoscience, 2018, 11, 635-639.	5.4	66
20	Permeability, porosity, and mineral surface area changes in basalt cores induced by reactive transport of <scp>CO</scp> ₂ â€rich brine. Water Resources Research, 2017, 53, 1908-1927.	1.7	65
21	Whole rock basalt alteration from CO2-rich brine during flow-through experiments at 150 ŰC and 150 bar. Chemical Geology, 2017, 453, 92-110.	1.4	52
22	Chemical and physical changes during seawater flow through intact dunite cores: An experimental study at 150–200 °C. Geochimica Et Cosmochimica Acta, 2017, 214, 86-114.	1.6	17
23	Serpentinization of olivine at 300 ŰC and 500 bars: An experimental study examining the role of silica on the reaction path and oxidation state of iron. Chemical Geology, 2017, 475, 122-134.	1.4	29
24	Expanding the role of reactive transport models in critical zone processes. Earth-Science Reviews, 2017, 165, 280-301.	4.0	207
25	Hydrothermal Transport of Ag, Au, Cu, Pb, Te, Zn, and Other Metals and Metalloids in New Zealand Geothermal Systems: Spatial Patterns, Fluid-Mineral Equilibria, and Implications for Epithermal Mineralization. Economic Geology, 2016, 111, 589-618.	1.8	70
26	Nanoscale constraints on porosity generation and fluid flow during serpentinization. Geology, 2016, 44, 103-106.	2.0	68
27	Decrease in CO2 efflux from northern hardwater lakes with increasing atmospheric warming. Nature, 2015, 519, 215-218.	13.7	102
28	High performance reactive transport simulations examining the effects of thermal, hydraulic, and chemical (THC) gradients on fluid injectivity at carbonate CCUS reservoir scales. International Journal of Greenhouse Gas Control, 2015, 39, 285-301.	2.3	39
29	The Lost City hydrothermal system: Constraints imposed by vent fluid chemistry and reaction path models on subseafloor heat and mass transfer processes. Geochimica Et Cosmochimica Acta, 2015, 163, 59-79.	1.6	104
30	Implications of the redissociation phenomenon for mineral-buffered fluids and aqueous species transport at elevated temperatures and pressures. Applied Geochemistry, 2015, 55, 119-127.	1.4	9
31	CO2 sequestration in feldspar-rich sandstone: Coupled evolution of fluid chemistry, mineral reaction rates, and hydrogeochemical properties. Geochimica Et Cosmochimica Acta, 2015, 160, 132-154.	1.6	87
32	Internal consistency in aqueous geochemical data revisited: Applications to the aluminum system. Geochimica Et Cosmochimica Acta, 2014, 133, 216-234.	1.6	33
33	Experimental dissolution of dolomite by CO2-charged brine at 100°C and 150bar: Evolution of porosity, permeability, and reactive surface area. Chemical Geology, 2014, 380, 145-160.	1.4	94
34	Experimental Observation of Permeability Changes In Dolomite at CO ₂ Sequestration Conditions. Environmental Science & amp; Technology, 2014, 48, 140203132426009.	4.6	21
35	Permeability Reduction Produced by Grain Reorganization and Accumulation of Exsolved CO ₂ during Geologic Carbon Sequestration: A New CO ₂ Trapping Mechanism. Environmental Science & Technology, 2013, 47, 242-251.	4.6	32
36	DBCreate: A SUPCRT92-based program for producing EQ3/6, TOUGHREACT, and GWB thermodynamic databases at user-defined T and P. Computers and Geosciences, 2013, 51, 415-417.	2.0	53