Ian M Power

List of Publications by Year
in descending order

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42 papers	3,650 citations	185998 28 h-index	288905 40 g-index
42 all docs	42 docs citations	42 times ranked	2798 citing authors

#	Article	IF	Citations
1	Direct measurement of CO2 drawdown in mine wastes and rock powders: Implications for enhanced rock weathering. International Journal of Greenhouse Gas Control, 2022, 113, 103554.	2.3	15
2	Rates of atmospheric CO2 capture using magnesium oxide powder. International Journal of Greenhouse Gas Control, 2022, 119, 103701.	2.3	10
3	Accelerating mineral carbonation in hydraulic fracturing flowback and produced water using CO2-rich gas. Applied Geochemistry, 2022, 143, 105380.	1.4	2
4	Particleâ€scale characterization of volcaniclastic dust sources within Iceland. Sedimentology, 2021, 68, 1137-1158.	1.6	8
5	Evaluating feedstocks for carbon dioxide removal by enhanced rock weathering and CO2 mineralization. Applied Geochemistry, 2021, 129, 104955.	1.4	21
6	Carbonation, Cementation, and Stabilization of Ultramafic Mine Tailings. Environmental Science & Technology, 2021, 55, 10056-10066.	4.6	18
7	Prospects for CO2 mineralization and enhanced weathering of ultramafic mine tailings from the Baptiste nickel deposit in British Columbia, Canada. International Journal of Greenhouse Gas Control, 2020, 94, 102895.	2.3	44
8	Rare earth element and strontium isotope geochemistry in Dujiali Lake, central Qinghai-Tibet Plateau, China: Implications for the origin of hydromagnesite deposits. Chemie Der Erde, 2019, 79, 337-346.	0.8	9
9	Magnesite formation in playa environments near Atlin, British Columbia, Canada. Geochimica Et Cosmochimica Acta, 2019, 255, 1-24.	1.6	33
10	Carbon Sequestration in Biogenic Magnesite and Other Magnesium Carbonate Minerals. Environmental Science & Technology, 2019, 53, 3225-3237.	4.6	32
11	Trace and rare earth element geochemistry of Holocene hydromagnesite from Dujiali Lake, central Qinghaiâ€“Tibetan Plateau, China. Carbonates and Evaporites, 2019, 34, 1265-1279.	0.4	7
12	Thermogravimetric analysisâ€“mass spectrometry (TGAâ€“MS) of hydromagnesite from Dujiali Lake in Tibet, China. Journal of Thermal Analysis and Calorimetry, 2018, 133, 1429-1437.	2.0	14
13	Potential for offsetting diamond mine carbon emissions through mineral carbonation of processed kimberlite: an assessment of De Beers mine sites in South Africa and Canada. Mineralogy and Petrology, 2018, 112, 755-765.	0.4	47
14	Integrated Mineral Carbonation of Ultramafic Mine Depositsâ€”A Review. Minerals (Basel, Switzerland), 2018, 8, 147.	0.8	60
15	Assessing the carbon sequestration potential of magnesium oxychloride cement building materials. Cement and Concrete Composites, 2017, 78, 97-107.	4.6	69
16	Room Temperature Magnesite Precipitation. Crystal Growth and Design, 2017, 17, 5652-5659.	1.4	66
17	The impact of evolving mineralâ€“waterâ€“gas interfacial areas on mineralâ€“fluid reaction rates in unsaturated porous media. Chemical Geology, 2016, 421, 65-80.	1.4	43
18	Accelerating Mineral Carbonation Using Carbonic Anhydrase. Environmental Science & Technology, 2016, 50, 2610-2618.	4.6	96

#	Article	IF	Citations
19	Metagenomic analysis reveals that modern microbialites and polar microbial mats have similar taxonomic and functional potential. Frontiers in Microbiology, 2015, 6, 966.	1.5	62
20	Influence of surface passivation and water content on mineral reactions in unsaturated porous media: Implications for brucite carbonation and CO2 sequestration. Geochimica Et Cosmochimica Acta, 2015, 148, 477-495.	1.6	94
21	Strategizing Carbon-Neutral Mines: A Case for Pilot Projects. Minerals (Basel, Switzerland), 2014, 4, 399-436.	0.8	58
22	A depositional model for hydromagnesiteâ€“magnesite playas near Atlin, British Columbia, Canada. Sedimentology, 2014, 61, 1701-1733.	1.6	50
23	Offsetting of CO2 emissions by air capture in mine tailings at the Mount Keith Nickel Mine, Western Australia: Rates, controls and prospects for carbon neutral mining. International Journal of Greenhouse Gas Control, 2014, 25, 121-140.	2.3	113
24	A Greenhouse-Scale Photosynthetic Microbial Bioreactor for Carbon Sequestration in Magnesium Carbonate Minerals. Environmental Science & Technology, 2014, 48, 9142-9151.	4.6	46
25	Accelerated Carbonation of Brucite in Mine Tailings for Carbon Sequestration. Environmental Science & Technology, 2013, 47, 126-134.	4.6	220
26	Chrysotile dissolution rates: Implications for carbon sequestration. Applied Geochemistry, 2013, 35, 244-254.	1.4	59
27	Carbon sequestration via carbonic anhydrase facilitated magnesium carbonate precipitation. International Journal of Greenhouse Gas Control, 2013, 16, 145-155.	2.3	80
28	Serpentinite Carbonation for CO2 Sequestration. Elements, 2013, 9, 115-121.	0.5	123
29	Carbon Mineralization: From Natural Analogues to Engineered Systems. Reviews in Mineralogy and Geochemistry, 2013, 77, 305-360.	2.2	174
30	9. Carbon Mineralization: From Natural Analogues to Engineered Systems. , 2013, , 305-360.		8
31	Reactive Transport Modeling of Natural Carbon Sequestration in Ultramafic Mine Tailings. Vadose Zone Journal, 2012, 11, vzj2011.0053.	1.3	63
32	Structural and biological control of the Cenozoic epithermal uranium concentrations from the Sierra PeÃ±a Blanca, Mexico. Mineralium Deposita, 2012, 47, 859-874.	1.7	15
33	Characterization of gas shale pore systems by porosimetry, pycnometry, surface area, and field emission scanning electron microscopy/transmission electron microscopy image analyses: Examples from the Barnett, Woodford, Haynesville, Marcellus, and Doig units. AAPG Bulletin, 2012, 96, 1099-1119.	0.7	1,204
34	Subarctic Weathering of Mineral Wastes Provides a Sink for Atmospheric CO₂. Environmental Science & Technology, 2011, 45, 7727-7736.	4.6	69
35	Characterizing the effect of carbon steel exposure in sulfide containing solutions to microbially induced corrosion. Corrosion Science, 2011, 53, 955-960.	3.0	165
36	Microbially Mediated Mineral Carbonation: Roles of Phototrophy and Heterotrophy. Environmental Science & Technology, 2011, 45, 9061-9068.	4.6	84

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37	Modern carbonate microbialites from an asbestos open pit pond, Yukon, Canada. Geobiology, 2011, 9, 180-195.	1.1	40
38	Enhanced silicate weathering is not limited by silicic acid saturation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E41; author reply E42.	3.3	17
39	Bioleaching of Ultramafic Tailings by Acidithiobacillus spp. for CO₂ Sequestration. Environmental Science & Technology, 2010, 44, 456-462.	4.6	70
40	The hydromagnesite playas of Atlin, British Columbia, Canada: A biogeochemical model for CO2 sequestration. Chemical Geology, 2009, 260, 286-300.	1.4	114
41	Biologically induced mineralization of dypingite by cyanobacteria from an alkaline wetland near Atlin, British Columbia, Canada. Geochemical Transactions, 2007, 8, 13.	1.8	119
42	Cation Exchange in Smectites as a New Approach to Mineral Carbonation. Frontiers in Climate, 0, 4, .	1.3	9