

Ian M Power

List of Publications by Year in descending order

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42
papers

3,650
citations

186265
28
h-index

289244
40
g-index

42
all docs

42
docs citations

42
times ranked

2798
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.5	1,204
2	Accelerated Carbonation of Brucite in Mine Tailings for Carbon Sequestration. Environmental Science & Technology, 2013, 47, 126-134.	10.0	220
3	Carbon Mineralization: From Natural Analogues to Engineered Systems. Reviews in Mineralogy and Geochemistry, 2013, 77, 305-360.	4.8	174
4	Characterizing the effect of carbon steel exposure in sulfide containing solutions to microbially induced corrosion. Corrosion Science, 2011, 53, 955-960.	6.6	165
5	Serpentine Carbonation for CO ₂ Sequestration. Elements, 2013, 9, 115-121.	0.5	123
6	Biologically induced mineralization of dypingite by cyanobacteria from an alkaline wetland near Atlin, British Columbia, Canada. Geochemical Transactions, 2007, 8, 13.	0.7	119
7	The hydromagnesite playas of Atlin, British Columbia, Canada: A biogeochemical model for CO ₂ sequestration. Chemical Geology, 2009, 260, 286-300.	3.3	114
8	Offsetting of CO ₂ 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.	4.6	113
9	Accelerating Mineral Carbonation Using Carbonic Anhydrase. Environmental Science & Technology, 2016, 50, 2610-2618.	10.0	96
10	Influence of surface passivation and water content on mineral reactions in unsaturated porous media: Implications for brucite carbonation and CO ₂ sequestration. Geochimica Et Cosmochimica Acta, 2015, 148, 477-495.	3.9	94
11	Microbially Mediated Mineral Carbonation: Roles of Phototrophy and Heterotrophy. Environmental Science & Technology, 2011, 45, 9061-9068.	10.0	84
12	Carbon sequestration via carbonic anhydrase facilitated magnesium carbonate precipitation. International Journal of Greenhouse Gas Control, 2013, 16, 145-155.	4.6	80
13	Bioleaching of Ultramafic Tailings by <i>Acidithiobacillus</i> spp. for CO ₂ Sequestration. Environmental Science & Technology, 2010, 44, 456-462.	10.0	70
14	Subarctic Weathering of Mineral Wastes Provides a Sink for Atmospheric CO ₂ . Environmental Science & Technology, 2011, 45, 7727-7736.	10.0	69
15	Assessing the carbon sequestration potential of magnesium oxychloride cement building materials. Cement and Concrete Composites, 2017, 78, 97-107.	10.7	69
16	Room Temperature Magnesite Precipitation. Crystal Growth and Design, 2017, 17, 5652-5659.	3.0	66
17	Reactive Transport Modeling of Natural Carbon Sequestration in Ultramafic Mine Tailings. Vadose Zone Journal, 2012, 11, vzj2011.0053.	2.2	63
18	Metagenomic analysis reveals that modern microbialites and polar microbial mats have similar taxonomic and functional potential. Frontiers in Microbiology, 2015, 6, 966.	3.5	62

#	ARTICLE	IF	CITATIONS
19	Integrated Mineral Carbonation of Ultramafic Mine Deposits—A Review. <i>Minerals</i> (Basel, Switzerland), 2018, 8, 147.	2.0	60
20	Chrysotile dissolution rates: Implications for carbon sequestration. <i>Applied Geochemistry</i> , 2013, 35, 244-254.	3.0	59
21	Strategizing Carbon-Neutral Mines: A Case for Pilot Projects. <i>Minerals</i> (Basel, Switzerland), 2014, 4, 399-436.	2.0	58
22	A depositional model for hydromagnesite—magnesite playas near Atlin, British Columbia, Canada. <i>Sedimentology</i> , 2014, 61, 1701-1733.	3.1	50
23	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. <i>Mineralogy and Petrology</i> , 2018, 112, 755-765.	1.1	47
24	A Greenhouse-Scale Photosynthetic Microbial Bioreactor for Carbon Sequestration in Magnesium Carbonate Minerals. <i>Environmental Science & Technology</i> , 2014, 48, 9142-9151.	10.0	46
25	Prospects for CO ₂ mineralization and enhanced weathering of ultramafic mine tailings from the Baptiste nickel deposit in British Columbia, Canada. <i>International Journal of Greenhouse Gas Control</i> , 2020, 94, 102895.	4.6	44
26	The impact of evolving mineral—water—gas interfacial areas on mineral—fluid reaction rates in unsaturated porous media. <i>Chemical Geology</i> , 2016, 421, 65-80.	3.3	43
27	Modern carbonate microbialites from an asbestos open pit pond, Yukon, Canada. <i>Geobiology</i> , 2011, 9, 180-195.	2.4	40
28	Magnesite formation in playa environments near Atlin, British Columbia, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 255, 1-24.	3.9	33
29	Carbon Sequestration in Biogenic Magnesite and Other Magnesium Carbonate Minerals. <i>Environmental Science & Technology</i> , 2019, 53, 3225-3237.	10.0	32
30	Evaluating feedstocks for carbon dioxide removal by enhanced rock weathering and CO ₂ mineralization. <i>Applied Geochemistry</i> , 2021, 129, 104955.	3.0	21
31	Carbonation, Cementation, and Stabilization of Ultramafic Mine Tailings. <i>Environmental Science & Technology</i> , 2021, 55, 10056-10066.	10.0	18
32	Enhanced silicate weathering is not limited by silicic acid saturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E41; author reply E42.	7.1	17
33	Structural and biological control of the Cenozoic epithermal uranium concentrations from the Sierra Peña Blanca, Mexico. <i>Mineralium Deposita</i> , 2012, 47, 859-874.	4.1	15
34	Direct measurement of CO ₂ drawdown in mine wastes and rock powders: Implications for enhanced rock weathering. <i>International Journal of Greenhouse Gas Control</i> , 2022, 113, 103554.	4.6	15
35	Thermogravimetric analysis—mass spectrometry (TGA—MS) of hydromagnesite from Dujiali Lake in Tibet, China. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 133, 1429-1437.	3.6	14
36	Rates of atmospheric CO ₂ capture using magnesium oxide powder. <i>International Journal of Greenhouse Gas Control</i> , 2022, 119, 103701.	4.6	10

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37	Rare earth element and strontium isotope geochemistry in Dujiali Lake, central Qinghai-Tibet Plateau, China: Implications for the origin of hydromagnesite deposits. <i>Chemie Der Erde</i> , 2019, 79, 337-346.	2.0	9
38	Cation Exchange in Smectites as a New Approach to Mineral Carbonation. <i>Frontiers in Climate</i> , 0, 4, .	2.8	9
39	Particle-scale characterization of volcanoclastic dust sources within Iceland. <i>Sedimentology</i> , 2021, 68, 1137-1158.	3.1	8
40	9. Carbon Mineralization: From Natural Analogues to Engineered Systems. , 2013, , 305-360.		8
41	Trace and rare earth element geochemistry of Holocene hydromagnesite from Dujiali Lake, central Qinghai-Tibetan Plateau, China. <i>Carbonates and Evaporites</i> , 2019, 34, 1265-1279.	1.0	7
42	Accelerating mineral carbonation in hydraulic fracturing flowback and produced water using CO2-rich gas. <i>Applied Geochemistry</i> , 2022, 143, 105380.	3.0	2