

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	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. <i>AAPG Bulletin</i> , 2012, 96, 1099-1119.	0.7	1,204
2	Accelerated Carbonation of Brucite in Mine Tailings for Carbon Sequestration. <i>Environmental Science & Technology</i> , 2013, 47, 126-134.	4.6	220
3	Carbon Mineralization: From Natural Analogues to Engineered Systems. <i>Reviews in Mineralogy and Geochemistry</i> , 2013, 77, 305-360.	2.2	174
4	Characterizing the effect of carbon steel exposure in sulfide containing solutions to microbially induced corrosion. <i>Corrosion Science</i> , 2011, 53, 955-960.	3.0	165
5	Serpentine Carbonation for CO ₂ Sequestration. <i>Elements</i> , 2013, 9, 115-121.	0.5	123
6	Biologically induced mineralization of dypingite by cyanobacteria from an alkaline wetland near Atlin, British Columbia, Canada. <i>Geochemical Transactions</i> , 2007, 8, 13.	1.8	119
7	The hydromagnesite playas of Atlin, British Columbia, Canada: A biogeochemical model for CO ₂ sequestration. <i>Chemical Geology</i> , 2009, 260, 286-300.	1.4	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. <i>International Journal of Greenhouse Gas Control</i> , 2014, 25, 121-140.	2.3	113
9	Accelerating Mineral Carbonation Using Carbonic Anhydrase. <i>Environmental Science & Technology</i> , 2016, 50, 2610-2618.	4.6	96
10	Influence of surface passivation and water content on mineral reactions in unsaturated porous media: Implications for brucite carbonation and CO ₂ sequestration. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 148, 477-495.	1.6	94
11	Microbially Mediated Mineral Carbonation: Roles of Phototrophy and Heterotrophy. <i>Environmental Science & Technology</i> , 2011, 45, 9061-9068.	4.6	84
12	Carbon sequestration via carbonic anhydrase facilitated magnesium carbonate precipitation. <i>International Journal of Greenhouse Gas Control</i> , 2013, 16, 145-155.	2.3	80
13	Bioleaching of Ultramafic Tailings by <i>Acidithiobacillus</i> spp. for CO ₂ Sequestration. <i>Environmental Science & Technology</i> , 2010, 44, 456-462.	4.6	70
14	Subarctic Weathering of Mineral Wastes Provides a Sink for Atmospheric CO ₂ . <i>Environmental Science & Technology</i> , 2011, 45, 7727-7736.	4.6	69
15	Assessing the carbon sequestration potential of magnesium oxychloride cement building materials. <i>Cement and Concrete Composites</i> , 2017, 78, 97-107.	4.6	69
16	Room Temperature Magnesite Precipitation. <i>Crystal Growth and Design</i> , 2017, 17, 5652-5659.	1.4	66
17	Reactive Transport Modeling of Natural Carbon Sequestration in Ultramafic Mine Tailings. <i>Vadose Zone Journal</i> , 2012, 11, vj2011.0053.	1.3	63
18	Metagenomic analysis reveals that modern microbialites and polar microbial mats have similar taxonomic and functional potential. <i>Frontiers in Microbiology</i> , 2015, 6, 966.	1.5	62

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19	Integrated Mineral Carbonation of Ultramafic Mine Deposits—A Review. <i>Minerals</i> (Basel, Switzerland), 2018, 8, 147.	0.8	60
20	Chrysotile dissolution rates: Implications for carbon sequestration. <i>Applied Geochemistry</i> , 2013, 35, 244-254.	1.4	59
21	Strategizing Carbon-Neutral Mines: A Case for Pilot Projects. <i>Minerals</i> (Basel, Switzerland), 2014, 4, 399-436.	0.8	58
22	A depositional model for hydromagnesite—magnesite playas near Atlin, British Columbia, Canada. <i>Sedimentology</i> , 2014, 61, 1701-1733.	1.6	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.	0.4	47
24	A Greenhouse-Scale Photosynthetic Microbial Bioreactor for Carbon Sequestration in Magnesium Carbonate Minerals. <i>Environmental Science & Technology</i> , 2014, 48, 9142-9151.	4.6	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.	2.3	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.	1.4	43
27	Modern carbonate microbialites from an asbestos open pit pond, Yukon, Canada. <i>Geobiology</i> , 2011, 9, 180-195.	1.1	40
28	Magnesite formation in playa environments near Atlin, British Columbia, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 255, 1-24.	1.6	33
29	Carbon Sequestration in Biogenic Magnesite and Other Magnesium Carbonate Minerals. <i>Environmental Science & Technology</i> , 2019, 53, 3225-3237.	4.6	32
30	Evaluating feedstocks for carbon dioxide removal by enhanced rock weathering and CO ₂ mineralization. <i>Applied Geochemistry</i> , 2021, 129, 104955.	1.4	21
31	Carbonation, Cementation, and Stabilization of Ultramafic Mine Tailings. <i>Environmental Science & Technology</i> , 2021, 55, 10056-10066.	4.6	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.	3.3	17
33	Structural and biological control of the Cenozoic epithermal uranium concentrations from the Sierra Peñón Blanca, Mexico. <i>Mineralium Deposita</i> , 2012, 47, 859-874.	1.7	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.	2.3	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.	2.0	14
36	Rates of atmospheric CO ₂ capture using magnesium oxide powder. <i>International Journal of Greenhouse Gas Control</i> , 2022, 119, 103701.	2.3	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.	0.8	9
38	Cation Exchange in Smectites as a New Approach to Mineral Carbonation. <i>Frontiers in Climate</i> , 0, 4, .	1.3	9
39	Particle-scale characterization of volcanoclastic dust sources within Iceland. <i>Sedimentology</i> , 2021, 68, 1137-1158.	1.6	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.	0.4	7
42	Accelerating mineral carbonation in hydraulic fracturing flowback and produced water using CO2-rich gas. <i>Applied Geochemistry</i> , 2022, 143, 105380.	1.4	2