

Michael Hitch

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

3,300
citations

331259

21
h-index

149479

56
g-index

65
all docs

65
docs citations

65
times ranked

4028
citing authors

#	ARTICLE	IF	CITATIONS
1	Global estimates of the value of ecosystems and their services in monetary units. <i>Ecosystem Services</i> , 2012, 1, 50-61.	2.3	1,801
2	Carbon Mineralization: From Natural Analogues to Engineered Systems. <i>Reviews in Mineralogy and Geochemistry</i> , 2013, 77, 305-360.	2.2	174
3	Carbonation of steel slag and gypsum for building materials and associated reaction mechanisms. <i>Cement and Concrete Research</i> , 2019, 125, 105893.	4.6	122
4	Processing centres in artisanal gold mining. <i>Journal of Cleaner Production</i> , 2014, 64, 535-544.	4.6	96
5	The state of environmental sustainability considerations in mining. <i>Journal of Cleaner Production</i> , 2018, 182, 969-977.	4.6	90
6	Mechanical activation of magnesium silicates for mineral carbonation, a review. <i>Minerals Engineering</i> , 2018, 128, 69-83.	1.8	75
7	Revaluing mine waste rock for carbon capture and storage. <i>International Journal of Mining, Reclamation and Environment</i> , 2010, 24, 64-79.	1.2	70
8	Integrated Mineral Carbonation of Ultramafic Mine Deposits—A Review. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 147.	0.8	60
9	Recent developments and challenges of aqueous mineral carbonation: a review. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 4359-4380.	1.8	53
10	Economic feasibility and sensitivity analysis of integrating industrial-scale mineral carbonation into mining operations. <i>Minerals Engineering</i> , 2012, 39, 268-275.	1.8	50
11	Particulate matter pollution in opencast coal mining areas: a threat to human health and environment. <i>International Journal of Mining, Reclamation and Environment</i> , 2018, 32, 75-92.	1.2	48
12	Europe's mining innovation trends and their contribution to the sustainable development goals: Blind spots and strong points. <i>Resources Policy</i> , 2021, 74, 101440.	4.2	48
13	Structural and chemical changes in mine waste mechanically-activated in various milling environments. <i>Powder Technology</i> , 2017, 308, 13-19.	2.1	43
14	Ultra-fine grinding and mechanical activation of mine waste rock using a planetary mill for mineral carbonation. <i>International Journal of Mineral Processing</i> , 2017, 158, 18-26.	2.6	43
15	Ultra-fine grinding and mechanical activation of mine waste rock using a high-speed stirred mill for mineral carbonation. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 1005-1016.	2.4	36
16	Mechanical activation of ultramafic mine waste rock in dry condition for enhanced mineral carbonation. <i>Minerals Engineering</i> , 2016, 95, 1-4.	1.8	36
17	Characterization of the microstructure of mechanically-activated olivine using X-ray diffraction pattern analysis. <i>Minerals Engineering</i> , 2016, 86, 24-33.	1.8	36
18	Carbon dioxide adsorption isotherm study on mine waste for integrated CO ₂ capture and sequestration processes. <i>Powder Technology</i> , 2016, 291, 408-413.	2.1	31

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19	Direct aqueous carbonation on olivine at a CO ₂ partial pressure of 6.5 MPa. <i>Energy</i> , 2019, 173, 902-910.	4.5	31
20	Metal Mining's Environmental Pressures: A Review and Updated Estimates on CO ₂ Emissions, Water Use, and Land Requirements. <i>Sustainability</i> , 2018, 10, 2881.	1.6	30
21	Carbon Dioxide Sorption Isotherm Study on Pristine and Acid-Treated Olivine and Its Application in the Vacuum Swing Adsorption Process. <i>Minerals (Basel, Switzerland)</i> , 2015, 5, 259-275.	0.8	28
22	Composite paste barricade performance at Goldcorp Inc. Red Lake Mine, Ontario, Canada. <i>International Journal of Mining, Reclamation and Environment</i> , 2010, 24, 138-150.	1.2	21
23	Experimental mineral carbonation: approaches to accelerate CO ₂ sequestration in mine waste materials. <i>International Journal of Mining, Reclamation and Environment</i> , 2011, 25, 321-331.	1.2	21
24	European mining and the social license to operate. <i>The Extractive Industries and Society</i> , 2021, 8, 100787.	0.7	21
25	Mechanical activation of medium basicity steel slag under dry condition for carbonation curing. <i>Journal of Building Engineering</i> , 2022, 50, 104123.	1.6	17
26	Economic analysis on the application of mechanical activation in an integrated mineral carbonation process. <i>International Biodeterioration and Biodegradation</i> , 2018, 128, 63-71.	1.9	16
27	Ecosystem services costs of metal mining and pressures on biomes. <i>The Extractive Industries and Society</i> , 2020, 7, 79-86.	0.7	16
28	Tools for Teaching Mining Students in Virtual Reality based on 360° Video Experiences. , 2020, , .		13
29	Carbon prices for meeting the Paris agreement and their impact on key metals. <i>The Extractive Industries and Society</i> , 2020, 7, 593-599.	0.7	13
30	Orthogonal Test Design for the Optimization of Preparation of Steel Slag-Based Carbonated Building Materials with Ultramafic Tailings as Fine Aggregates. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 246.	0.8	12
31	Evaluation of Impact of Potential Extreme Rainfall Events on Mining in Peru. <i>Natural Resources Research</i> , 2019, 28, 393-408.	2.2	11
32	A real options approach to implementing corporate social responsibility policies at different stages of the mining process. <i>Corporate Governance (Bingley)</i> , 2014, 14, 45-57.	3.2	10
33	Carbonation Curing on Magnetically Separated Steel Slag for the Preparation of Artificial Reefs. <i>Materials</i> , 2022, 15, 2055.	1.3	10
34	Market Stakeholder Analysis of the Practical Implementation of Carbonation Curing on Steel Slag for Urban Sustainable Governance. <i>Energies</i> , 2022, 15, 2399.	1.6	9
35	Effect of substrate properties and phosphorus supply on facilitating the uptake of rare earth elements (REE) in mixed culture cropping systems of <i>Hordeum vulgare</i> , <i>Lupinus albus</i> and <i>Lupinus angustifolius</i> . <i>Environmental Science and Pollution Research</i> , 2022, 29, 57172-57189.	2.7	9
36	The license to mine: Making resource wealth work for those who need it most. <i>Resources Policy</i> , 2021, 74, 101418.	4.2	8

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37	Social licence: power imbalances and levels of consciousness – two case studies. <i>International Journal of Mining, Reclamation and Environment</i> , 2020, 34, 238-246.	1.2	8
38	A Review on Integrated Mineral Carbonation Process in Ultramafic Mine Deposit. <i>Geo-Resources Environment and Engineering</i> , 0, 2, .	0.0	8
39	Selective removal of selenium by phytoremediation from post/mining coal wastes: practicality and implications. <i>International Journal of Mining, Reclamation and Environment</i> , 2021, 35, 69-77.	1.2	7
40	Aqueous mineral carbonation of oil shale mine waste (limestone): A feasibility study to develop a CO ₂ capture sorbent. <i>Energy</i> , 2021, 221, 119895.	4.5	7
41	Correlation between COVID-19 cases and gold price fluctuation. <i>International Journal of Mining, Reclamation and Environment</i> , 2022, 36, 574-586.	1.2	7
42	The effect of mineral composition on direct aqueous carbonation of ultramafic mine waste rock for CO ₂ sequestration, a case study of Turnagain ultramafic complex in British Columbia, Canada. <i>International Journal of Mining, Reclamation and Environment</i> , 2022, 36, 267-286.	1.2	6
43	Aqueous mineral carbonation of ultramafic material: a pre-requisite to integrate into mineral extraction and tailings management operation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 29096-29109.	2.7	5
44	Coal slurry pipelines: A coal transportation method in Kalimantan, Indonesia. <i>International Journal of Mining, Reclamation and Environment</i> , 2021, 35, 638-655.	1.2	5
45	Exploiting the malleability of gold for placer concentrate extraction and recovery. <i>Minerals Engineering</i> , 2016, 94, 38-40.	1.8	4
46	Determining the embedding parameters governing long-term dynamics of copper prices. <i>Chaos, Solitons and Fractals</i> , 2018, 111, 186-197.	2.5	4
47	Important environmental social governance risks in potential phosphorite mining in Estonia. <i>The Extractive Industries and Society</i> , 2021, 8, 100911.	0.7	4
48	Heavy media coal hydro-transport in Malinau, Indonesia: a process study. <i>International Journal of Mining and Mineral Engineering</i> , 2011, 3, 1.	0.1	3
49	The geostatistical evaluation of coal parameters in Seam H, Malinau area, Indonesia. <i>International Journal of Oil, Gas and Coal Technology</i> , 2013, 6, 705.	0.1	3
50	Worldview and resource development conflict: an analytical approach. <i>International Journal of Sustainable Society</i> , 2017, 9, 148.	0.0	3
51	Reducing mining footprint by matching haul fleet demand and route-oriented tire types. <i>Journal of Cleaner Production</i> , 2019, 227, 645-651.	4.6	3
52	Virtuous natural resource development: The evolution and adaptation of social licence in the mining sector. <i>The Extractive Industries and Society</i> , 2021, 8, 100902.	0.7	3
53	Multi-Criteria Decision Analysis for Evaluating Transitional and Post-Mining Options – An Innovative Perspective from the EIT ReVIRIS Project. <i>Sustainability</i> , 2022, 14, 2292.	1.6	3
54	Mining education – curricular learning communities. <i>International Journal of Mining, Reclamation and Environment</i> , 2011, 25, 103-105.	1.2	2

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55	Advances In Mining Engineering Education: A Case For Learning Communities. International Journal of Engineering Pedagogy, 2015, 5, 48.	0.7	2
56	Miners and mendicants: A cautionary tale. The Extractive Industries and Society, 2019, 6, 498-503.	0.7	2
57	Increasing the value of heterogeneous ore deposits by high-resolution deposit-modelling and flexible extraction techniques. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2017, 126, 139-150.	0.8	1
58	Resource development conflict: a quantitative approach. Annals in Social Responsibility, 2017, 3, 42-55.	1.0	1
59	Evaluating the potential of Estonia as European REE recycling capital via an environmental social governance risks assessment model. The Extractive Industries and Society, 2021, 8, 100767.	0.7	1
60	Deficiencies and recommendations for public reporting standards for industrial minerals. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2012, 121, 55-60.	0.8	0
61	Reducing mercury usage in artisanal gold mines using grinding and sieving. Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy, 2017, 126, 167-171.	0.6	0
62	Resource Development Conflict: A Study in Worldviews. International Journal of Social Sustainability in Economic, Social and Cultural Context, 2013, 8, 133-143.	0.2	0
63	MCDM Applied to the Evaluation of Transitional and Post-Mining Conditions – An Innovative Perspective Developed through the EIT ReviRIS Project. Materials Proceedings, 2021, 5, .	0.2	0