Michael Hitch

List of Publications by Year
in descending order

63 papers	3,300 citations	331670 21 h-index	149698 56 g-index
65 all docs	65 docs citations	65 times ranked	4028 citing authors

#	Article	IF	Citations
1	Mechanical activation of medium basicity steel slag under dry condition for carbonation curing. Journal of Building Engineering, 2022, 50, 104123.	3.4	17
2	The effect of mineral composition on direct aqueous carbonation of ultramafic mine waste rock for CO₂ sequestration, a case study of Turnagain ultramafic complex in British Columbia, Canada. International Journal of Mining, Reclamation and Environment, 2022, 36, 267-286.	2.8	6
3	Orthogonal Test Design for the Optimization of Preparation of Steel Slag-Based Carbonated Building Materials with Ultramafic Tailings as Fine Aggregates. Minerals (Basel, Switzerland), 2022, 12, 246.	2.0	12
4	Multi-Criteria Decision Analysis for Evaluating Transitional and Post-Mining Optionsâ€"An Innovative Perspective from the EIT ReviRIS Project. Sustainability, 2022, 14, 2292.	3.2	3
5	Carbonation Curing on Magnetically Separated Steel Slag for the Preparation of Artificial Reefs. Materials, 2022, 15, 2055.	2.9	10
6	Market Stakeholder Analysis of the Practical Implementation of Carbonation Curing on Steel Slag for Urban Sustainable Governance. Energies, 2022, 15, 2399.	3.1	9
7	Effect of substrate properties and phosphorus supply on facilitating the uptake of rare earth elements (REE) in mixed culture cropping systems of Hordeum vulgare, Lupinus albus and Lupinus angustifolius. Environmental Science and Pollution Research, 2022, 29, 57172-57189.	5.3	9
8	Correlation between COVID-19 cases and gold price fluctuation. International Journal of Mining, Reclamation and Environment, 2022, 36, 574-586.	2.8	7
9	Europe's mining innovation trends and their contribution to the sustainable development goals: Blind spots and strong points. Resources Policy, 2021, 74, 101440.	9.6	48
10	The license to mine: Making resource wealth work for those who need it most. Resources Policy, 2021, 74, 101418.	9.6	8
11	Evaluating the potential of Estonia as European REE recycling capital via an environmental social governance risks assessment modelâœ°. The Extractive Industries and Society, 2021, 8, 100767.	1.2	1
12	European mining and the social license to operate. The Extractive Industries and Society, 2021, 8, 100787.	1.2	21
13	Selective removal of selenium by phytoremediation from post/mining coal wastes: practicality and implications. International Journal of Mining, Reclamation and Environment, 2021, 35, 69-77.	2.8	7
14	Aqueous mineral carbonation of ultramafic material: a pre-requisite to integrate into mineral extraction and tailings management operation. Environmental Science and Pollution Research, 2021, 28, 29096-29109.	5.3	5
15	Aqueous mineral carbonation of oil shale mine waste (limestone): A feasibility study to develop a CO2 capture sorbent. Energy, 2021, 221, 119895.	8.8	7
16	Virtuous natural resource development: The evolution and adaptation of social licence in the mining sector. The Extractive Industries and Society, 2021, 8, 100902.	1.2	3
17	Coal slurry pipelines: A coal transportation method in Kalimantan, Indonesia. International Journal of Mining, Reclamation and Environment, 2021, 35, 638-655.	2.8	5
18	Important environmental social governance risks in potential phosphorite mining in Estonia. The Extractive Industries and Society, 2021, 8, 100911.	1.2	4

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19	MCDM Applied to the Evaluation of Transitional and Post-Mining Conditionsâ€"An Innovative Perspective Developed through the EIT ReviRIS Project. Materials Proceedings, 2021, 5, .	0.2	0
20	Social licence: power imbalances and levels of consciousness â€" two case studies. International Journal of Mining, Reclamation and Environment, 2020, 34, 238-246.	2.8	8
21	Ecosystem services costs of metal mining and pressures on biomes. The Extractive Industries and Society, 2020, 7, 79-86.	1.2	16
22	Tools for Teaching Mining Students in Virtual Reality based on 360Â°Video Experiences. , 2020, , .		13
23	Recent developments and challenges of aqueous mineral carbonation: a review. International Journal of Environmental Science and Technology, 2020, 17, 4359-4380.	3.5	53
24	Carbon prices for meeting the Paris agreement and their impact on key metals. The Extractive Industries and Society, 2020, 7, 593-599.	1.2	13
25	Evaluation of Impact of Potential Extreme Rainfall Events on Mining in Peru. Natural Resources Research, 2019, 28, 393-408.	4.7	11
26	Carbonation of steel slag and gypsum for building materials and associated reaction mechanisms. Cement and Concrete Research, 2019, 125, 105893.	11.0	122
27	Reducing mining footprint by matching haul fleet demand and route-oriented tire types. Journal of Cleaner Production, 2019, 227, 645-651.	9.3	3
28	Miners and mendicants: A cautionary tale. The Extractive Industries and Society, 2019, 6, 498-503.	1.2	2
29	Direct aqueous carbonation on olivine at a CO2 partial pressure of 6.5â€¯MPa. Energy, 2019, 173, 902-910.	8.8	31
30	The state of environmental sustainability considerations in mining. Journal of Cleaner Production, 2018, 182, 969-977.	9.3	90
31	Particulate matter pollution in opencast coal mining areas: a threat to human health and environment. International Journal of Mining, Reclamation and Environment, 2018, 32, 75-92.	2.8	48
32	Economic analysis on the application of mechanical activation in an integrated mineral carbonation process. International Biodeterioration and Biodegradation, 2018, 128, 63-71.	3.9	16
33	Metal Miningâ€™s Environmental Pressures: A Review and Updated Estimates on CO2 Emissions, Water Use, and Land Requirements. Sustainability, 2018, 10, 2881.	3.2	30
34	Mechanical activation of magnesium silicates for mineral carbonation, a review. Minerals Engineering, 2018, 128, 69-83.	4.3	75
35	Integrated Mineral Carbonation of Ultramafic Mine Depositsâ€"A Review. Minerals (Basel, Switzerland), 2018, 8, 147.	2.0	60
36	Determining the embedding parameters governing long-term dynamics of copper prices. Chaos, Solitons and Fractals, 2018, 111, 186-197.	5.1	4

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37	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
38	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
39	Structural and chemical changes in mine waste mechanically-activated in various milling environments. Powder Technology, 2017, 308, 13-19.	4.2	43
40	Resource development conflict: a quantitative approach. Annals in Social Responsibility, 2017, 3, 42-55.	0.1	1
41	Ultra-fine grinding and mechanical activation of mine waste rock using a planetary mill for mineral carbonation. International Journal of Mineral Processing, 2017, 158, 18-26.	2.6	43
42	Worldview and resource development conflict: an analytical approach. International Journal of Sustainable Society, 2017, 9, 148.	0.1	3
43	Exploiting the malleability of gold for placer concentrate extraction and recovery. Minerals Engineering, 2016, 94, 38-40.	4.3	4
44	Mechanical activation of ultramafic mine waste rock in dry condition for enhanced mineral carbonation. Minerals Engineering, 2016, 95, 1-4.	4.3	36
45	Carbon dioxide adsorption isotherm study on mine waste for integrated CO 2 capture and sequestration processes. Powder Technology, 2016, 291, 408-413.	4.2	31
46	Characterization of the microstructure of mechanically-activated olivine using X-ray diffraction pattern analysis. Minerals Engineering, 2016, 86, 24-33.	4.3	36
47	Advances In Mining Engineering Education: A Case For Learning Communities. International Journal of Engineering Pedagogy, 2015, 5, 48.	1.1	2
48	Carbon Dioxide Sorption Isotherm Study on Pristine and Acid-Treated Olivine and Its Application in the Vacuum Swing Adsorption Process. Minerals (Basel, Switzerland), 2015, 5, 259-275.	2.0	28
49	Ultra-fine grinding and mechanical activation of mine waste rock using a high-speed stirred mill for mineral carbonation. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 1005-1016.	4.9	36
50	A real options approach to implementing corporate social responsibility policies at different stages of the mining process. Corporate Governance (Bingley), 2014, 14, 45-57.	5.0	10
51	Processing centres in artisanal gold mining. Journal of Cleaner Production, 2014, 64, 535-544.	9.3	96
52	Carbon Mineralization: From Natural Analogues to Engineered Systems. Reviews in Mineralogy and Geochemistry, 2013, 77, 305-360.	4.8	174
53	The geostatistical evaluation of coal parameters in Seam H, Malinau area, Indonesia. International Journal of Oil, Gas and Coal Technology, 2013, 6, 705.	0.2	3
54	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

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55	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
56	Global estimates of the value of ecosystems and their services in monetary units. Ecosystem Services, 2012, 1, 50-61.	5.4	1,801
57	Economic feasibility and sensitivity analysis of integrating industrial-scale mineral carbonation into mining operations. Minerals Engineering, 2012, 39, 268-275.	4.3	50
58	Experimental mineral carbonation: approaches to accelerate CO₂sequestration in mine waste materials. International Journal of Mining, Reclamation and Environment, 2011, 25, 321-331.	2.8	21
59	Heavy media coal hydro-transport in Malinau, Indonesia: a process study. International Journal of Mining and Mineral Engineering, 2011, 3, 1.	0.3	3
60	Mining education â€“ curricular learning communities. International Journal of Mining, Reclamation and Environment, 2011, 25, 103-105.	2.8	2
61	Composite paste barricade performance at Goldcorp Inc. Red Lake Mine, Ontario, Canada. International Journal of Mining, Reclamation and Environment, 2010, 24, 138-150.	2.8	21
62	Revaluing mine waste rock for carbon capture and storage. International Journal of Mining, Reclamation and Environment, 2010, 24, 64-79.	2.8	70
63	A Review on Integrated Mineral Carbonation Process in Ultramafic Mine Deposit. Geo-Resources Environment and Engineering, 0, 2, .	0.0	8