

Jiajie Li

List of Publications by Year in descending order

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papers

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all docs

30
docs citations

30
times ranked

575
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbonation of steel slag and gypsum for building materials and associated reaction mechanisms. Cement and Concrete Research, 2019, 125, 105893.	4.6	122
2	Mechanical activation of magnesium silicates for mineral carbonation, a review. Minerals Engineering, 2018, 128, 69-83.	1.8	75
3	Integrated Mineral Carbonation of Ultramafic Mine Deposits—A Review. Minerals (Basel, Switzerland), 2018, 8, 147.	0.8	60
4	The accident early warning system for iron and steel enterprises based on combination weighting and Grey Prediction Model GM (1, 1). Safety Science, 2016, 89, 19-27.	2.6	52
5	Structural and chemical changes in mine waste mechanically-activated in various milling environments. Powder Technology, 2017, 308, 13-19.	2.1	43
6	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
7	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.	2.4	36
8	Mechanical activation of ultramafic mine waste rock in dry condition for enhanced mineral carbonation. Minerals Engineering, 2016, 95, 1-4.	1.8	36
9	Characterization of the microstructure of mechanically-activated olivine using X-ray diffraction pattern analysis. Minerals Engineering, 2016, 86, 24-33.	1.8	36
10	Establishment of spatiotemporal dynamic model for water inrush spreading processes in underground mining operations. Safety Science, 2013, 55, 45-52.	2.6	31
11	Carbon dioxide adsorption isotherm study on mine waste for integrated CO ₂ capture and sequestration processes. Powder Technology, 2016, 291, 408-413.	2.1	31
12	Direct aqueous carbonation on olivine at a CO ₂ partial pressure of 6.5 MPa. Energy, 2019, 173, 902-910.	4.5	31
13	Development of stabilized Ca-based CO ₂ sorbents supported by fly ash. Chemical Engineering Journal, 2018, 345, 312-319.	6.6	30
14	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.	0.8	28
15	Mechanical activation of medium basicity steel slag under dry condition for carbonation curing. Journal of Building Engineering, 2022, 50, 104123.	1.6	17
16	Economic analysis on the application of mechanical activation in an integrated mineral carbonation process. International Biodeterioration and Biodegradation, 2018, 128, 63-71.	1.9	16
17	Visualization and simulation model of underground mine fire disaster based on Cellular Automata. Applied Mathematical Modelling, 2015, 39, 4351-4364.	2.2	15
18	Study on Mineral Compositions of Direct Carbonated Steel Slag by QXRD, TG, FTIR, and XPS. Energies, 2021, 14, 4489.	1.6	15

#	ARTICLE	IF	CITATIONS
19	Influence of the key factors on the performance of steel slag-desulphurisation gypsum-based hydration-carbonation materials. <i>Journal of Building Engineering</i> , 2022, 45, 103591.	1.6	12
20	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
21	The hydration mechanism of magnesium oxysulfate cement prepared by magnesium desulfurization byproducts. <i>Journal of Materials Research and Technology</i> , 2022, 17, 1211-1220.	2.6	10
22	Carbonation Curing on Magnetically Separated Steel Slag for the Preparation of Artificial Reefs. <i>Materials</i> , 2022, 15, 2055.	1.3	10
23	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
24	A Review on Integrated Mineral Carbonation Process in Ultramafic Mine Deposit. <i>Geo-Resources Environment and Engineering</i> , 0, 2, .	0.0	8
25	Use of CO ₂ to Cure Steel Slag and Gypsum-Based Material. <i>Energies</i> , 2021, 14, 5174.	1.6	7
26	Promotion effects of gypsum on carbonation of aluminates in medium Al ladle furnace refining slag. <i>Construction and Building Materials</i> , 2022, 336, 127567.	3.2	7
27	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
28	Overview of the South African mine health and safety standardization and regulation systems. <i>Science in China Series A: Mathematics</i> , 2008, 14, 329-333.	0.2	5
29	Research on multivariate hierarchical analysis and evaluation on rock burst hazard. , 2014, , 467-476.		1
30	Optimization of the whole-waste binder containing molten iron desulfurization slag from Kambara Reactor for concrete production. <i>Journal of Building Engineering</i> , 2022, 54, 104594.	1.6	1