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Carbon dioxide mineralization process design and evaluation: concepts, case studies, and considerations

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#	Paper	IF	Citations
30	Carbon dioxide mineralization process design and evaluation: concepts, case studies, and considerations. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 22309-22330	5.1	27
29	Technoeconomic perspectives on sustainable CO capture and utilization. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 22223-22225	5.1	7
28	Influence of physicochemical properties of Brazilian serpentinites on the leaching process for indirect CO ₂ mineral carbonation. <i>Hydrometallurgy</i> , 2017 , 169, 142-151	4	14
27	Dissolution of steel slags in aqueous media. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 16305-16315	5.1	15
26	Energy related CO ₂ conversion and utilization: Advanced materials/nanomaterials, reaction mechanisms and technologies. <i>Nano Energy</i> , 2017 , 40, 512-539	17.1	143
25	CO ₂ sequestration by pH-swing mineral carbonation based on HCl/NH ₄ OH system using iron-rich lizardite 1T. <i>Journal of CO₂ Utilization</i> , 2018 , 24, 164-173	7.6	19
24	Integrated Mineral Carbonation of Ultramafic Mine Deposits: A Review. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 147	2.4	42
23	Accelerated carbonation of wood combustion ash for CO removal from gaseous streams and storage in solid form. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 35855-35865	5.1	7
22	Effect of Solidification and Cooling Methods on the Efficacy of Slag as a Feedstock for CO ₂ Mineralization. <i>ISIJ International</i> , 2018 , 58, 211-219	1.7	5
21	Evolution of carbon capture and storage by mineral carbonation: Data analysis and relevance of the theme. <i>Minerals Engineering</i> , 2019 , 142, 105879	4.9	16
20	Determination of the Carbon Dioxide Sequestration Potential of a Nickel Mine Mixed Dump through Leaching Tests. <i>Energies</i> , 2019 , 12, 2877	3.1	4
19	Mineral Carbonation for Carbon Capture and Utilization. 2019 , 105-153		0
18	United Conversion Process Coupling CO Mineralization with Thermochemical Hydrogen Production. <i>Environmental Science & Technology</i> , 2019 , 53, 12091-12100	10.3	3
17	Kinetics of steel slag dissolution: from experiments to modelling. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20180830	2.4	4
16	Direct aqueous carbonation on olivine at a CO ₂ partial pressure of 6.5 MPa. <i>Energy</i> , 2019 , 173, 902-910	7.9	17
15	Advances in process development of aqueous CO ₂ mineralisation towards scalability. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104453	6.8	12
14	Dunite carbonation in batch-tubular reactor. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 31439-31445	5.1	0

13	Evaluation of the leaching characteristics of low-grade nickel laterite waste rock for indirect carbon sequestration application. <i>Geosystem Engineering</i> , 2020 , 23, 205-215	1.2	2
12	On the road to net zero-emission cement: Integrated assessment of mineral carbonation of cement kiln dust. <i>Chemical Engineering Journal</i> , 2021 , 408, 127346	14.7	9
11	A review on steel slag valorisation via mineral carbonation. <i>Reaction Chemistry and Engineering</i> ,	4.9	6
10	Research status and future challenge for CO sequestration by mineral carbonation strategy using iron and steel slag. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 49383-49409	5.1	2
9	Combined steam and CO ₂ reforming of CH ₄ for syngas production in a gliding arc discharge plasma. <i>Journal of CO₂ Utilization</i> , 2020 , 37, 248-259	7.6	20
8	Indirect Carbonation by a Two-Step Leaching Process Using Ammonium Chloride and Acetic Acid. <i>Jom</i> , 2022 , 74, 1958	2.1	
7	The development of carbon capture and storage (CCS) in India: A critical review. <i>Carbon Capture Science & Technology</i> , 2022 , 2, 100036		3
6	Understanding the acid dissolution of Serpentinites (Tailings and waste rock) for use in indirect mineral carbonation. <i>South African Journal of Chemical Engineering</i> , 2022 , 40, 154-164	3.2	1
5	Mineral carbonation of ultramafic tailings: A review of reaction mechanisms and kinetics, industry case studies, and modelling. <i>Cleaner Engineering and Technology</i> , 2022 , 8, 100491	2.7	2
4	CO ₂ capture from biogas by biomass-based adsorbents: A review. <i>Fuel</i> , 2022 , 328, 125276	7.1	2
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2	Improvement of Carbon Dioxide Sequestration of Anorthite through Bacterial: Release of Calcium and Destruction of Crystal Structure. 2023 , 13, 367		0
1	Experimental Study on Mineral Dissolution and Carbonation Efficiency Applied to pH-Swing Mineral Carbonation for Improved CO ₂ Sequestration. 2023 , 16, 2449		1