

Special Issue

Application of Mineral Carbonation in Carbon Capture, Use and Storage

Message from the Guest Editors

The incessant consumption of energy has negative effects on the environment. Carbon dioxide is the dominant anthropogenic greenhouse gas responsible for global warming. To reduce these potential risks, two main technologies of carbon capture and safe storage are necessary. Mineral carbonation is an established CCS technique that can halt CO₂ emissions. While the benefits of mineral carbonation are clear today, the effectiveness of this technology is still limited, and improvements are required in areas such as logistics, energy pretreatments, kinetics and scalability, disposal, safety, and so on. Therefore, this is clearly an environmental issue that needs further investigation.

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