Special Issue

Island-Reef Carbonate Systems: Facies, Diagenesis, and Dolomitization Processes

Message from the Guest Editors

Island–reef carbonate systems (e.g., atolls, isolated platforms, rimmed shelves) are critical archives of Earth's history, biodiversity hotspots, and significant reservoirs for hydrocarbons and water resources. Their complex evolution—controlled by biological, physical, chemical, and climatic factors—shapes unique facies distributions and drives intricate diagenetic alterations, including pervasive dolomitization. Understanding these processes is essential for reconstructing past environments, predicting reservoir quality, and assessing carbon sequestration potential. This Special Issue seeks to publish high-quality contributions that advance our knowledge of modern and ancient island–reef carbonate systems. We invite multidisciplinary studies addressing the following topics:

Guest Editors

Dr. Rui Wang

Dr. Min Ren

Dr. Simone Booker

Deadline for manuscript submissions

31 March 2026

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Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

Editor-in-Chief

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