



Advances in Carbonate Sedimentology

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Deadline for manuscript
submissions:

closed (30 September 2022)

Message from the Guest Editors

This Special Issue aims at documenting new and recent advances in carbonate sedimentology by collecting original contributions and review articles addressing a wide range of processes across scale, from the formation of carbonate particles, to the controls on sedimentary structures and depositional facies, to the basin-scale tectono-sedimentary and geochemical processes that control type, production, and accumulation of carbonate sediment, and shape of shallow water and slope to basin carbonate systems. Articles published in this Special Issue will cover the underlying relationship between ocean chemistry and carbonate factory type, resedimentation processes, and base-of-slope architecture, as well as the influence of basin topography on sequence stratigraphic evolution through examples from both outcrops and subsurface, and integration of digital outcrop reconstructions, numerical forward modeling, and machine learning approaches.





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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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Journal Rank: CiteScore - Q1 (*General Earth and Planetary Sciences*)

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