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Geological Carbon Sinks and Sequestration

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Deadline for manuscript submissions:
closed (31 December 2023)

Message from the Guest Editors

Anthropogenic emissions of carbon dioxide (CO_2) have made a visible impact on the global environment and climate since the industrial revolution. Guided by the Paris Agreement, many countries are taking active measures to reduce carbon emissions and increase carbon sinks. However, natural carbon sinks in terrestrial ecosystems, oceans and karst regions is far below to maintain a balance against the CO_2 into the atmosphere. Artificially enhanced carbon sequestration involving geological processes needs more attention.

Studies of geological carbon sinks and geological CO_2 sequestration remain challenging topics. According to this, our ambition for the upcoming Special Issue is to publish original research and review articles relevant to natural and artificial carbon sequestration processes, mechanisms, and potentials via physical, chemical, and biological interactions between the lithosphere, hydrosphere, atmosphere, and biosphere on the following topics:

- Carbon cycling;
- Karst, silicate, soil, wetland, and swamp carbon sinks;
- Geological carbon sequestration;
- Geological energy storage;
- Policies, legislation, and management.

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Message from the Editor-in-Chief

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