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Climate Change, Carbon Capture, Storage and CO2 Mineralisation Technologies

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Climate change is a global issue that is interrelated with the energy and petroleum industry. In this scope, there is an increasing demand for new low cost and energy efficient techniques that reduce the CO2 emissions. The use of fossil fuels is the primary source of CO2 emissions, which is one of the main greenhouse gases.

Carbon Capture and Storage is regarded as one of the most efficient technologies that allows carbon intensive industries to continue to operate with lower CO2 emissions. CCS offers double benefits combining the reduction of greenhouse gas with the direct use of the captured carbon for Enhanced Oil Recovery. Mineral carbonation is a permanent and secure CCS and sequestration technology that gives the solution in cases of smaller to medium emitters. It is based on the in situ or ex situ production of carbonate minerals through the chemical reaction of CO2 with Ca, Mg and Fe-silicate minerals.

Researchers from the fields of physical sciences and engineering are invited to contribute to our special issue.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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