



an Open Access Journal by MDPI

Climate Change, Carbon Capture, Storage and CO2 Mineralisation Technologies

Guest Editors:

Dr. Nikolaos Koukouzas

Chemical Process & Energy Resources Institute, Centre for Research & Technology Hellas (CERTH),15125 Athens, Greece

Dr. Pavlos Tyrologou

Center for Research & Technology Hellas/Chemical Process and Energy Resources Institute (CERTH/CPERI), 52 Egialias Str., 15125 Maroussi, Athens, Greece

Dr. Petros Koutsovitis

Research Fellow, Centre for Research and Technology Hellas, Chemical Process and Energy Resources Institute (CERTH/CPERI), 52 Egialias str., 15125 Maroussi-Athens, Greece

Deadline for manuscript submissions:

closed (30 June 2020)

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.

Dr. Nikolaos Koukouzas Dr. Pavlos Tyrologou Dr. Petros Koutsovitis Guest Editors









an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola CerulloDipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us