Special Issue

Utilization and Storage of Carbon Dioxide in Petroleum Engineering

Message from the Guest Editor

CO2 Capture, Utilization and Storage (CCUS) is an emerging CO2 disposal technology with large-scale application potential, which is expected to achieve near-zero CO2 emissions from fossil energy use. The CO2 generated during industrial production can be captured and injected into specific geological structures, such as saline aquifer, oil and gas reservoirs, and unminable coalbed, for permanent storage. This Special Issue on "Utilization and Storage of Carbon Dioxide in Petroleum Engineering" seeks high-quality work focusing on the latest novel advances of CCUS in petroleum engineering. Topics include, but are not limited to:

- Enhanced production mechanisms of CO2 injection in hydrocarbon and geothermal reservoirs;
- CO2 trapping mechanisms in different geological structures;
- Progress of CO2 geological storage and utilization demonstration project;
- CO2 leakage risk, monitoring scheme and preventive measures.

Guest Editor

Dr. Liang Zhang

College of Petroleum Engineering, China University of Petroleum (Huadong), Qingdao 266580, China

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Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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