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# Utilization and Storage of Carbon Dioxide in Petroleum Engineering

Guest Editor:

### Dr. Liang Zhang

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

Deadline for manuscript submissions: closed (20 May 2024)

### Message from the Guest Editor

CO<sub>2</sub> Capture, Utilization and Storage (CCUS) is an emerging CO<sub>2</sub> disposal technology with large-scale application potential, which is expected to achieve near-zero CO<sub>2</sub> emissions from fossil energy use. The CO<sub>2</sub> 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 CO<sub>2</sub> injection in hydrocarbon and geothermal reservoirs;
- CO<sub>2</sub> trapping mechanisms in different geological structures;
- Progress of CO<sub>2</sub> geological storage and utilization demonstration project;
- CO<sub>2</sub> leakage risk, monitoring scheme and preventive measures.









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#### Prof. Dr. Giancarlo Cravotto

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

### Message from the Editor-in-Chief

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