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Approaches and Development in Enhancing Oil Recovery (EOR)

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Message from the Guest Editors

This Special Issue will mainly introduce new materials, new technologies and new methods in the field of enhancing oil recovery (EOR). Most of the old oil fields in the world are in the stage of tertiary oil recovery, and the production is in a downward trend. Although oil companies use chemical flooding, steam flooding and other methods to improve crude oil production, the results are still not optimistic. Therefore, enhancing oil recovery is still an important research direction in the future. With the continuous improvement of EOR mechanisms and the emergence of new materials, many new technologies have emerged. Using these technologies, the oil recovery can be improved by reducing the mobility ratio to improve the sweep coefficient or eliminating the interfacial effect between working agent and crude oil to improve the oil displacement efficiency. In practical application, there is a large gap between various complex environments and laboratory research. Therefore, only the successful application of new materials, new technologies and new methods can prove that they are really effective.

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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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