Special Issue

Role of Permeability and Its Control in Enhanced Oil Recovery (EOR) Processes

Message from the Guest Editor

Effective (or relative) permeability to the oil plays a critical role in the success of any EOR process as it is directly relevant to the key EOR objective, which is to increase the oil mobility as defined by the ratio of the oil permeability to its viscosity. Together, they impact the recovery of residual oil saturation to be expected in an EOR process and the optimal displacement pressure regime to be chosen and implemented. Equally noteworthy and interesting is that the permeability can be looked upon as a double-edged sword as both high- and low-permeability reservoirs can offer positive or adverse effects, subject to unique reservoir characteristics; for example, we often try to create a higher permeable situation to reduce capillary resistance; but, in certain situations though, we are compelled to adopt sweep improvement and profile modification strategies to selectively block high-permeable streaks to minimize the volume of the bypassed oil during a recovery process. We, therefore, welcome manuscripts that address such diverse scenarios and possibilities on the effects of permeabilities.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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