



gels



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Applications of Gels for Enhanced Oil Recovery

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Message from the Guest Editors

This Special Issue, “Applications of Gels for Enhanced Oil Recovery”, focuses on the recent progress of utilizing gels in enhanced oil recovery. Within this context, all the preparations, percolations, characterizations, etc., of gels meet the requirements of this Special Issue.

With the development of reservoirs, their heterogeneity has become more and more serious, especially in fractured reservoirs. In recent decades, various gels have been developed to control the phenomenon of channeling. The gel preferentially flows into the highly permeable channels and then increases the seepage resistance. Then, subsequent fluids are diverted into smaller pores and throats to enhance oil recovery. Many gels lose their properties when they are injected into the reservoirs. Thus, it is urgent that innovative gels should be developed to adapt to the present harsh formation conditions. Furthermore, nanomaterials have great application potential in improving gel properties. Finally, we look forward to the submission of new results on the applications of gels for EOR. The submission of both theoretical and experimental studies is welcome.



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Special Issue



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Message from the Editor-in-Chief

Gels (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

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