



gels



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Gels for Oil and Gas Industry Applications

Guest Editors:

Prof. Dr. Qing You

School of Energy Resources,
China University of Geosciences
(Beijing), Beijing 100083, China

Prof. Dr. Guang Zhao

School of Petroleum Engineering,
China University of Petroleum
(East China), Qindao 266580,
China

Dr. Xindi Sun

Physics and Engineering
Department, College of Health,
Engineering and Science,
Slippery Rock University of
Pennsylvania, Slippery Rock, PA
16057, USA

Deadline for manuscript
submissions:

closed (31 July 2022)

Message from the Guest Editors

Gels, such as in-situ gels and preformed particle gels, have been widely used in the oil and gas industry to control excess water production and gas channeling, which contributes significantly to improving hydrocarbon recovery.

Based on different application conditions, many novel gels have been developed. The evaluation of the novel gels is crucial since the properties of some polymers can be altered under high temperatures, high salinity, or high CO₂ conditions. In addition, due to the complexity of the reservoirs, some gels may perform differently in the field than in the lab. In this case, the experiences gained from field application studies are very valuable for future gel development, evaluation, and application.....

This special issue focus on new studies on gel development or gel application in the oil and gas industry, including but not limited to field application cases, novel gel development, experimental evaluation of gel performance for conformance control, fracturing, lab- and field-scale numerical simulations, etc.

Note: If you can't meet the current submission deadline, please consider our Volume II:

[Gels for Oil and Gas Industry Applications \(Volume II\)](#)



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Special Issue



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Editor-in-Chief

Prof. Dr. Esmail Jabbari

Biomimetic Materials and Tissue
Engineering Laboratory,
Department of Chemical
Engineering, University of South
Carolina, Columbia, SC 29208,
USA

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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Contact Us

Gels Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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