

Special Issue

Catalysis in Aquathermolysis of Heavy Oil

Message from the Guest Editors

Nowadays, the current global trend is focusing on actively developing heavy oil deposits, which requires the use of unconventional production methods. In fact, thermal enhanced oil recovery methods are occupying a prevailing place among other unconventional enhanced oil recovery methods, in particular, injection of superheated steam. Such an impact on the reservoir, due to high temperature and the presence of catalytically active rocks minerals, may lead to improvements in the composition of the produced oil and its decreased viscosity. This process is called aquathermolysis. The development of special reagents that would maintain the high mobility of heavy oil during production and thereby increase the energy efficiency of thermal technologies is important and relevant. Such reagents can be present in various catalytic systems. It is also important to study the influence of various factors on the efficiency of catalytic systems during the conversion of certain compounds and their groups that make up heavy oil.

Guest Editors

Dr. Sergey A. Sitnov

Institute of Geology and Petroleum Technologies, Kazan (Volga Region) Federal University (KFU), 18 Kremlyovskaya St., P.O. Box, 420008 Kazan, Russia

Prof. Dr. Alexey Cheremisin

Skolkovo Institute of Science and Technology, Bolshoy Boulevard 30, bld. 1, Moscow 121205, Russia

Deadline for manuscript submissions

closed (20 December 2023)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/75163

Catalysts
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)





Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Keith Hohn

Carl R. Ice College of Engineering, Kansas State University, Manhattan,
KS, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, CAB Abstracts, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).