



New Challenges in Advanced Process Control in Petroleum Engineering

Guest Editors:

Dr. Sheng Yang

Dr. Jinze Xu

Prof. Dr. Desheng Zhou

Dr. Xing Hao

Prof. Dr. Zhangxing John Chen

Deadline for manuscript
submissions:

closed (30 September 2022)

Message from the Guest Editors

This Special Issue on “New Challenges in Advanced Process Control in Petroleum Engineering” seeks high-quality studies focusing on theoretical advancements and field applications of APC in the oil and gas industry. Topics include, but are not limited to:

- Machine learning and artificial intelligence (AI) techniques in reservoir development;
- Studies of mechanisms of fluid flow in reservoirs and their implications for performance optimization;
- Model predictive control (MPC) to optimize production and reduce costs;
- Real-time optimization (RTO) from underground to surface;
- Economic evaluation and optimization based on APC.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

Author Benefits

Open Access: free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus**,
SCIE (Web of Science), **Ei Compendex**, **Inspecc**, **AGRIS**, and **other databases**.

Journal Rank: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)