energies

an Open Access Journal by MDPI

IMPACT FACTOR 3.0

CITESCORE 6.2

Gas Production from Coal Seam Gas/Deep Coal Seam Gas Reservoirs

Guest Editors:

Dr. Alireza Salmachi
Australian School of Petroleum and Energy Resources, University of Adelaide, Adelaide, Australia

Dr. Suyang Zhu
State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation, Southwest Petroleum University, Chengdu, China

Deadline for manuscript submissions:
closed (15 November 2022)

Message from the Guest Editors

Natural gas plays a pivotal role in transitioning into a lower carbon economy. Coal seams gas, also knowns as coalbed methane, is extracted from underground coal seams. Production forecasting, reserve estimation, history matching and simulations are complicated for coal seam gas reservoirs. In particular, relative permeability implications, heterogeneity, matrix shrinkage, in situ stresses and geomechanical effects are important factors that require further strong research. In addition, natural gas production and carbon dioxide sequestration in deep coal seams (depth >2000 m) opens new avenues for research in fluid flow modelling, hydraulic fracturing and gas sorption. This Special Issue aims to collect original research or review articles on coal seam gas/deep coal seam gas reservoirs from both a fundamental and an applied point of view. Reservoir engineering, geomechanics, reservoir simulation, production data analysis and history matching and related topics will be considered.

Keywords: coalbed methane; coal seam gas; deep coal; reservoir engineering; production data analysis; rate transient analysis; geomechanics; reservoir simulation; well completion and stimulation

energies

IMPACT FACTOR 3.0

CITESCORE 6.2

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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.

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, RePEc, Inspec, CAPlus / SciFinder, and other databases.
Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/energies
energies@mdpi.com
𝕏@energies_mdpi