Special Issue

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

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

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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.

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