

Special Issue

Advance in Integrated Basin and Petroleum System Modeling

Message from the Guest Editors

With ChatGPT dominating the media and sparking a new revolution in IT at the moment, how can the petroleum geoscience community catch up with the fast-paced IT industry? One way is to shift towards more quantitative and computer-modeling-oriented methods. Basin and petroleum system modeling (BPSM) started half a century ago when the computing capacity was no more than a fraction of our smart phone. It has now become a billion-dollar business globally. However, with petroleum exploration going to ultra-deep and super-complex parts of basins and with the emergence of shale oil and gas and carbon capture and storage (CCS), new developments and workflows in BPSM have sprouted rapidly. This Special Issue is focused on, but not limited to, innovative development and applications of integrated BPSM in exploring hydrocarbons in areas under extremely harsh conditions and unconventional places including ultra-deep reservoirs and shale oil, as well as site selection and screening for gas and CCS.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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