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## Modeling Flow and Transport in Porous and Fractured Media

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### Message from the Guest Editors

Fluid flow and transport in porous and fractured media is an important and interesting topic for scientific and engineering studies. A fundamental understanding of these processes is imperative for a broad range of applications for environmental and industrial problems (e.g., groundwater contaminant mitigation, geo-energy development, CO<sub>2</sub> sequestration, fuel cells development, and water purification).

This Special Issue intends to report the recent development of computational models for providing quantitative predictions of fluid and transport in fractured and porous media.

Research studies include numerical approaches, case studies, and data analytics. Our interests focus on, but are not limited to, the following topics:

- Reactive transport in porous and fractured media;
- Pore-scale and field-scale modeling;
- The geo-storage of CO<sub>2</sub> or H<sub>2</sub>;
- The development of geo-energy (hydrocarbon and geotherm);
- Fuel cell development;
- Membrane and filters design for water purification;
- Interactions between fluids and solids;
- Data-driven modeling (machine learning).



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# Special Issue



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## Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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