

## Special Issue

# Structure Optimization and Transport Characteristics of Porous Media

### Message from the Guest Editors

Porous media are central to environmental sustainability and energy utilization. They enable targeted pollutant capture and CO<sub>2</sub> sequestration through structural optimization, while driving efficient operations (e.g., hydrocarbon recovery, geothermal energy) via advanced transport engineering. Achieving these objectives requires an integrated framework uniting materials science, fluid dynamics, and AI. This Special Issue spotlights research on the co-optimization of pore-scale design and system-scale transport control across diverse applications, inviting innovations that leverage AI to decode complex phenomena and deliver scalable solutions.

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### Guest Editors

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### Deadline for manuscript submissions

30 September 2025



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