Special Issue

Quantum Computing for Flow Simulations

Message from the Guest Editors

In the past several decades, various computing architectures (vector computers, data-parallel computers, shared and distributed memory computers, GPUs, TPUs, etc.) have been developed. All these have been based on the traditional (0, 1) bit concept. Quantum computing offers a paradigm shift in dramatically increasing computing power, using the concept of qubits. The *Fluids* journal is planning to publish a Special Issue entitled "Quantum Computing for Flow Simulations" to assess the current state of science and applications of quantum computing for flow simulations. Fluids is inviting leading researchers in quantum computing to submit original unpublished work to this Special Issue. Review papers highlighting the successes and challenges in computing fluid flows using QPUs are also encouraged. Algorithms, performance, and applications to flows are particularly encouraged. Submitted papers will be promptly reviewed and published in a timely manner.

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Deadline for manuscript submissions

31 May 2026



Fluids

an Open Access Journal by MDPI

Impact Factor 1.8 CiteScore 4.0



mdpi.com/si/231746

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Fluids (ISSN 2311-5521) is an international journal on all aspects of fluids in open access format: research articles, reviews and other contents are released on the internet immediately after acceptance. You are invited to contribute a research article or a comprehensive review for consideration and publication in Fluids. The scientific community and the general public have unlimited free access to the content as soon as it is published. Please consider Fluids as an exceptional, exciting enterprise ready to reward your trust, attention, and active participation.

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