

## Special Issue

# High-Pressure Water Jet Machining in Materials Engineering

### Message from the Guest Editors

This Special Issue will present modern applications of high-pressure (high-energy) water jets, theoretically and in terms of research. Submitted papers should mainly concern significant research results covering the use of various types of jets, such as plain jets, pulsating jets, abrasive suspension water jets, abrasive injection water jets, cryogenic jets, etc., in machining various materials, especially structural materials (both super hard and soft) and composites, including multilayer composites, ceramic composites, food composites, etc. The topics of the papers should include the behavior of the selected materials and their interaction with the working tool—a high-pressure liquid jet—in selected applications. Quality assessments, monitoring of the machining process or its control and simulation, and theoretical studies of technological processes and operations with experimental results confirming the presented conclusions will be welcomed. Articles presenting new measurement procedures, especially those concerning the surface quality obtained after machining and describing the interaction of the material with the control parameters, will also be considered.

### Guest Editors

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### Deadline for manuscript submissions

20 February 2026



## Materials

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## About the Journal

### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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