

## Special Issue

# Recent Developments in Elasticity of Advanced Composites, Porous Materials and Perforated Structures

### Message from the Guest Editor

As is known, defects such as pores, cracks and inclusions commonly appear in various materials and structures at all scales. The geometric configurations and distributions of these defects play crucial roles in determining the local concentration behavior and overall macroscopic properties of the hosting materials and structures. It has been a lasting trend in mechanics, applied mathematics and engineering to explore the local and overall mechanical responses of these materials and structures to external stimuli, and several analytic and numerical schemes have been developed for this purpose. This Special Issue will report recent developments in analytic solutions, efficient algorithms, and intrinsic phenomena for the elastic behavior of advanced composites, porous materials, and perforated structures at either the macroscale or small scale.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 March 2026)



## Materials

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### Message from the Editorial Board

*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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