Special Issue

Structural Stability across Scales

Message from the Guest Editor

This Special Issue is aimed at gathering contributions from researchers, scientists, and experts from all areas of solid and structural mechanics in the field of buckling and post-buckling of structures and/or biological tissues at all scales. The studies are not limited to conventional materials but are open to smart materials, biological tissues, adaptive, morphing, and multistable structures, as well as orthotropic and anisotropic media. Further, instability, both under static and dynamic forces, is an object of interest. Investigations extended at all scales are welcome, from nano-, to film, to lattice, up to the homogeneous macroscale. The subjects include, but are not strictly limited to, the following topics:

- Instability in beams, plates, shells, and composite structures.
- Instability in elastic, hyperelastic, inelastic, and adaptative materials.
- Instability in isotropic, orthotropic, and anisotropic media.
- Instability under static or dynamic forces.
- Instability at macro-to-nano scales, including non-local effects.
- Numerical solutions and experimental techniques for addressing structural and material stability.

Guest Editor

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Deadline for manuscript submissions

closed (20 April 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/186135

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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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