

Special Issue

Simulation and Analysis of Materials Failure Under Loading

Message from the Guest Editors

It is our pleasure to invite you to publish your existing research works in the Special Issue, 'Simulation and Analysis of Materials Failure Under Loading', of *Materials* as a full paper, short communication, or review. The authors are advised to submit innovative applications of research solutions. Material failures under loading, analyzed in the research, need to be well depicted from a mechanical point of view, and a particular emphasis needs to be given to their occurrence under loading. Potential topics include but are not limited to:

- Simulation and numerical analysis of construction systems with the use of FEM;
- Simulation and analysis of materials failure bearings, slabs and shells;
- Simulation and analysis of composite materials failure;
- Accurate and convergent analysis of FEM based methods;
- Elasticity in simulation and analysis of materials failure under loading;
- Linear and nonlinear behavior of structures under loading;
- Validation of experimental processes for materials under loading;
- Application of new materials and their simulation and numerical analysis in a technical practice.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2020)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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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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