



an Open Access Journal by MDPI

Computational and Experimental Mechanics of Thin-Walled Structures

Guest Editors:

Dr. Katarzyna Falkowicz

Department of Machine Design and Mechatronics, Faculty of Mechanical Engineering, Lublin University of Technology, 36 Nadbystrzycka St., 20-618 Lublin, Poland

Dr. Patryk Rozylo

Faculty of Mechanical Engineering, Lublin University of Technology, Nadbystrzycka 36, 20-618 Lublin, Poland

Dr. Pawel Wysmulski

Department of Machine Design and Mechatronics, Faculty of Mechanical Engineering, Lublin University of Technology, 36 Nadbystrzycka St., 20-618 Lublin, Poland

Deadline for manuscript submissions: closed (10 March 2023)



mdpi.com/si/126348

Message from the Guest Editors

Dear Colleagues,

The wide range of thin-walled structures and composite materials applications in different areas of science and engineering motivates our interest to understand the governing mechanics, and to develop accurate and efficient computational models.

The field of computational mechanics of thin-walled structures has undergone intense development over the last several decades; nevertheless, is still in a phase of progression. Thanks to advances in numerical methods, which are powerful tools for engineering practice and materials design, solving materials problems and structure behavior is much easier, enabling the reliable assessment of phenomena connected with this topic. The scope of this Special Issue covers analyses of phenomena taking place in materials and structures subjected to different load states, especially limit states.

This Special Issue will address the above-mentioned research areas concerning the computational and experimental mechanics of thin-walled structures applied in engineering.

Dr. Katarzyna Falkowicz Dr. Patryk Rozylo Dr. Pawel Wysmulski *Guest Editors*

Specialsue





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials_Mdpi