Special Issue

Adhesion, Friction and Lubrication of Viscoelastic Materials

Message from the Guest Editors

The purpose of this Special Issue is to foster the growth of new ideas in the field by discussing the most recent advances in adhesion, friction and lubrication of viscoelastic materials. We are particularly interested in theoretical and experimental contributions focusing on fundamental physics, experimental investigations and validations of theories and models of viscoelastic solids on multiple length scales from macro to nano work, including also biomechanical applications and bio-inspired solutions, as well as bio- systems. Potential topics include, but are not limited to:

- adhesion and adhesion failures of viscoelastic materials
- contact, lubrication and friction of viscoelastic materials with an emphasis on the contact between rough or structured surfaces
- advanced numerical techniques to study contact, friction and lubrication of randomly rough viscoelastic interfaces

Guest Editors

Prof. Dr. Giuseppe Carbone

Department of Mechanics, Mathematics and Management, Polytechnic University of Bari, Bari, Italy

Dr. Francesco Bottiglione

Department of Mechanics, Mathematics and Management, Politecnico di Bari, v.le Japigia 182, 70126 Bari, Italy

Deadline for manuscript submissions

closed (31 July 2019)

Lubricants

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 4.5

mdpi.com/si/16059

Lubricants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
lubricants@mdpi.com

mdpi.com/journal/lubricants

Lubricants

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 4.5

mdpi.com/journal/lubricants

About the Journal

Message from the Editor-in-Chief

Friction, wear, and lubrication are tribological phenomena that govern the behavior of interacting surfaces in a wide range of machine components. Understanding the physical and chemical nature of these phenomena is critical to achieving long component lifetime and economical operation. Research in the field of tribology is highly interdisciplinary, and encompasses the fields of physics, chemistry, engineering, and mathematical modeling. *Lubricants* invites contributions on new advances in all areas of tribology for publication as peer-reviewed research articles, reviews of current research, letters, and communications. We are committed to providing timely reviews of all articles submitted. Please consider sharing your work with the scientific community through publication in *Lubricants.*

Editor-in-Chief

Prof. Dr. Homer Rahnejat
School of Engineering, University of Central Lancashire, Preston PR1 2HE, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2 (Mechanical Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).

MDPI