Special Issue

Wear and Fatigue in Medical Devices

Message from the Guest Editor

This Special Issue, “Wear and Fatigue in Medical Devices” will further explore the development of damage in medical devices due to fatigue and wear. Topics solicited are general on a given in vivo device and mechanical behavior of materials investigated under broad topics of fatigue and tribology. Some of the devices may be at the interface of biological environments, as well as the modelling of these complex interactions, and these will contribute immensely to existing knowledge. This Special Issue will publish full research papers, communications, and review articles. Topics of interest generally include (but not limited to):

- Fatigue
- Wear
- Corrosion
- Oxidation
- Articulation
- Rates
- Cracking
- Oxidation index
- Hydro-dynamics
- Fluid and contact mechanics
- Remodelling under the effects of forces
- Ion concentration
- Premature failures

Guest Editor

Prof. Dr. Tarun Goswami

Department of Biomedical, Industrial and Human Factors Engineering, Orthopaedic Surgery, Sports Medicine and Rehabilitation, Wright State University, 3640 Colonel Glenn Hwy, Dayton, OH 45435, USA

Deadline for manuscript submissions

closed (31 March 2019)

Lubricants

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 4.5

mdpi.com/si/18932

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

MDPI

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).