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# DESCRIPTION

*Biotribology* is the science of friction, lubrication and wear when applied to biological systems or natural phenomena. It is a diverse and multidisciplinary field which impacts all aspects of our daily life from prosthetic implants to personal care products and ice skating. The journal provides an international, peer-reviewed forum for this important, exciting and rapidly expanding field. Original research papers, critical review articles and case studies are solicited from scientists, engineers and clinicians working in the field. Subject areas include, but are not limited to, the following topics:

- **Natural joints and ligaments**: Synovial and cartilaginous joints; function, damage and failure
- **Artificial tissue replacements**: Bio-scaffolds, hydrogels, skin, dental, bone, meniscus and tendons
- **Prosthesis and implants**: Articular joints, catheters, heart pumps, stents
- **Biomimetics**: Bio-inspired materials, surfaces and lubricants
- **Locomotion**: Human and animal; slip and accidents; pavement surface design
- **Drug delivery**: Oral dispersive medicines; injections: tissue-needle interaction
- **Ocular tribology**: Ocular surfaces, contact lenses, tear lubrication
- **Skin tribology**: Damage and blistering mechanisms, bedsores, sweat lubrication
- **Haptics**: Tactile perception and surface texture, ergonomics
- **Personal care**: Skin and hair products, cosmetics, exfoliants
- **Oral processing**: Foodstuffs and beverages, mouth feel and texture perception
- **Dental tribology**: Tooth and implant wear, implant anchoring, tribo-corrosion and fracture
- **Biotribology for industry**: Test methods, correlation with customer experience, products and packaging
- **Sports Tribology**: Sports surfaces; equipment grip, snow and ice sports, low-friction design
- **Tribology of natural phenomena**: Earthquakes; avalanches; landslip

*Biotribology* embraces the highest standards of work ethics and expects authors to provide approval letters for both human subject and animal research. Financial relationships that may have influenced or biased the study design or analysis must be disclosed.

Original research papers dealing with experimental techniques are presumed to comment on validity and reliability of the data, thus, making use of statistical methods where needed. Review papers should be conducted systemically, whenever appropriate, and follow established PRISMA guidelines. Please register your review paper with PROSPERO to avoid duplication of the topic.
ABSTRACTING AND INDEXING

INSPEC

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- Natural joints: Synovial joints, articular cartilage, meniscus, mechanically and biochemically induced damage
- Artificial joint replacement, spinal discs, explant analysis, implant corrosion and wear, artificial cartilage, bio-scaffolds
- Prosthesis tribology: Prosthetic human interfacing and coupling, tribological function
- Biological implants: Catheters, heart pumps, stents, bio-probes, intravenous needles, Biomimetics: Bio-inspired tribology, insect tribology, Ocular tribology: Ocular surfaces, contact lenses, tear lubrication and Dry Eye Syndrome
- Skin tribology: Damage mechanisms, blistering mechanisms, bedsores, sweat lubrication
- Haptics: Tactile perception and surface texture, ergonomics
- Personal care: Hair conditioners, skin creams, cosmetics, shaving products, exfoliants, toothpaste
- Oral processing: Foodstuffs and beverages, mouth feel and taste perception, food texture and rheology
- Dental tribology: Tooth and implant wear, implant anchoring, tribo-corrosion of dental surfaces, fracture mechanism of teeth
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