Biotribology

Original research papers, critical review articles and case studies are solicited from scientists, engineers and clinicians working in the field. The topic of research should include a biological surface as part of the interface (e.g. articular cartilage, skin or dental enamel) or have a direct impact on biological function (e.g. prosthetic joints, dental implants). The scope of the journal includes all aspects of the tribology of bio-interfaces. Subject areas include:

- Natural joints: Synovial joints, articular cartilage, meniscus, mechanically and biochemically induced damage
- Artificial articular joints: Partial and total 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
- Biotribology for industry: Identifying new opportunities, developing test methods, correlation with customer experience, consumer products and packaging
- Sports tribology: Equipment design and development, preparation, deterioration and testing of sport surfaces, grip, player interaction and gait analysis