BIOTRIBOLOGY

AUTHOR INFORMATION PACK

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DESCRIPTION

Original research papers, critical review articles and case studies will be 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 will include all aspects of the tribology of bio-interfaces. Subject areas include:

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• **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

ABSTRACTING AND INDEXING

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INTRODUCTION
Original research papers, critical review articles and case studies will be 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 will include 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

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