

Special Issue

Tribological Properties of Biolubricants

Message from the Guest Editors

The limited natural resources and severe environmental issues that humanity is currently facing inherently drive the need for sustainable development in nearly every industry, such as aerospace, marine, automobile engineering, and manufacturing. To eliminate the negative effect of traditional mineral lubricants, the use of biolubricants is widely researched in the tribology and manufacturing fields. Its improved anti-wear and anti-friction performance have been preliminarily verified by experimental studies. Previous studies have also concluded the major influencing factors of tribological properties, including nano-enhancement, molecular structures, physicochemical properties, and so on. Nevertheless, the complex action of biolubricants is indistinct, which limits the preparation of process specifications and their popularity in factories.

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