

Special Issue

Laser Surface Engineering for Tribology

Message from the Guest Editors

Tribology is still facing various challenges in terms of reducing friction and wear and enhancing energy efficiency and sustainability of machinery. By changing the surface structure or producing a new film, the mechanical, physical, and chemical properties of contact surfaces can be improved, so as to reduce friction and wear. The new development in laser surface engineering is widely applied for tribology, including laser texture, laser deposition, laser cladding, laser modification, and so on. Furthermore, some innovations of laser surface engineering for tribology have been applied in industry, such as brakes, bearings, and steel rolls. For promoting further development in this area, we expect this Special Issue can serve to highlight the major trends and state-of-the-art research. We welcome contributions from both academic research and application-oriented approaches particularly involving laser surface engineering for tribology.

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