



Applied Nanotribology, 3rd Edition

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Message from the Guest Editors

Dear Colleagues,

Tribological issues exist in almost all machines and mechanical systems with moving parts, and are one of the major causes of energy consumption and material loss. With the development of automation technology, such issues have become more critical and significantly augmented economic expenditure. Nanotribology is a branch of tribology that studies adhesion, friction, wear and lubrication phenomena viewed at the scale of atoms and molecules. Although macroscale tribological interfaces can be simplified as multiple-asperities contact at nanoscale, the problems faced in nanotribology are unique due to the extremely high surface-to-volume ratio of nanoscale components.

