



lubricants



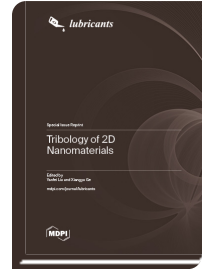
Special Issue Reprint

Tribology of 2D Nanomaterials

www.mdpi.com/books/reprint/9756

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ISBN 978-3-7258-1850-1 (Hardback)
ISBN 978-3-7258-1849-5 (PDF)



Friction and wear between machine pairs always cause excessive energy losses and even mechanical failures in industrial applications. To overcome these problems, researchers have focused on enhancing the performance of lubricants, particularly with regard to reductions in energy dissipation and improved durability. Recently, many 2D materials were used as solid lubricants at the nano/microscales or macroscales, applied as composite fillers, or added to lubricants as additives to enhance lubrication and wear protection performances. These 2D materials exhibit different tribological behaviors, which are valuable to investigate for the development of novel lubrication systems. This reprint is aimed at the most recent discoveries in the tribology of 2D nanomaterials in research and industry.



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