



Graphene: a new emerging lubricant[☆]

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In recent years, reducing friction and wear-related mechanical failures in moving mechanical systems has gained increased attention due to friction's adverse impacts on efficiency, durability, and environmental compatibility. Accordingly, the search continues for novel materials, coatings, and lubricants (both liquid and solid) that can potentially reduce friction and wear. Despite intense R&D efforts on graphene for a myriad of existing and future applications, its tribological potential as a lubricant remains relatively unexplored. In this review, we provide an up-to-date survey of recent tribological studies based on graphene from the nano-scale to macro-scale, in particular, its use as a self-lubricating solid or as an additive for lubricating oils.

Introduction

Increasing transportation and other industrial activities since the beginning of the last century have been consuming much of our non-renewable energy resources (like petroleum) day by day, and a significant portion of the energy produced is spent overcoming friction in moving mechanical systems. More important, much of the fuel used to generate energy turns into CO₂, which contributes to climate change and could have dire consequences [1]. Accordingly, more effective control or reduction of friction in moving mechanical systems is very important for a sustainable future.

Frequently encountered in our daily activities, friction is a fact of life. Sliding, rolling, or rotating contact interfaces in every man-made, natural or biological system generate friction. If not reduced or controlled effectively, high friction often leads to higher wear losses and, hence, shorter life and poor reliability. Consequently, friction has been one of the most active fields of study in the past. Many researchers are still working to understand the root causes of

friction and new ways to nearly eliminate it to achieve much higher efficiency and longer durability in all types of moving mechanical systems [2].

One of the most effective ways to control friction is to use a lubricant in liquid and/or solid forms. Even certain gases may be used to lubricate rubbing surfaces. Liquid lubricants reduce friction by preventing sliding contact interfaces from severe or more frequent metal-to-metal contacts or by forming a low-shear, high-durability boundary film on rubbing surfaces. For example, depending on the sliding speed and other operating conditions, engine oils can effectively separate the contacting surfaces of rings and liners and, thereby, reduce the frequency of direct metal-to-metal contact and thus friction and wear. If and when there is metal-to-metal contact, the additives in these oils form a low-shear, highly protective boundary film to provide additional safety. In short, reducing friction means higher fuel savings; reducing wear means longer durability. Thanks to these solid and liquid lubricants, machine components of today's engines and other mechanical systems operate safely and smoothly for a long time.

Liquid lubricants are delivered to sliding interfaces through a pump or by other kinds of oil delivery mechanisms, while solid lubricants have to be applied as thin films using physical vapor deposition (PVD) and/or chemical vapor deposition (CVD) methods. Due to their finite thickness, solid lubricant films wear out eventually and lose their effectiveness. They are also very sensitive

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Graphene A New Emerging Lubricant Researchgate

Rachel Sandford



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The book delves into Graphene A New Emerging Lubricant Researchgate. Graphene A New Emerging Lubricant Researchgate is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Graphene A New Emerging Lubricant Researchgate, encompassing both the fundamentals and more intricate discussions.

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Table of Contents Graphene A New Emerging Lubricant Researchgate

1. Understanding the eBook Graphene A New Emerging Lubricant Researchgate
 - The Rise of Digital Reading Graphene A New Emerging Lubricant Researchgate
 - Advantages of eBooks Over Traditional Books
2. Identifying Graphene A New Emerging Lubricant Researchgate
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Graphene A New Emerging Lubricant Researchgate
 - User-Friendly Interface
4. Exploring eBook Recommendations from Graphene A New Emerging Lubricant Researchgate
 - Personalized Recommendations
 - Graphene A New Emerging Lubricant Researchgate User Reviews and Ratings
 - Graphene A New Emerging Lubricant Researchgate and Bestseller Lists
5. Accessing Graphene A New Emerging Lubricant Researchgate Free and Paid eBooks
 - Graphene A New Emerging Lubricant Researchgate Public Domain eBooks
 - Graphene A New Emerging Lubricant Researchgate eBook Subscription Services
 - Graphene A New Emerging Lubricant Researchgate Budget-Friendly Options
6. Navigating Graphene A New Emerging Lubricant Researchgate eBook Formats
 - ePub, PDF, MOBI, and More
 - Graphene A New Emerging Lubricant Researchgate Compatibility with Devices
 - Graphene A New Emerging Lubricant Researchgate Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Graphene A New Emerging Lubricant Researchgate
 - Highlighting and Note-Taking Graphene A New Emerging Lubricant Researchgate
 - Interactive Elements Graphene A New Emerging Lubricant Researchgate

8. Staying Engaged with Graphene A New Emerging Lubricant Researchgate
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Graphene A New Emerging Lubricant Researchgate
9. Balancing eBooks and Physical Books Graphene A New Emerging Lubricant Researchgate
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Graphene A New Emerging Lubricant Researchgate
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Graphene A New Emerging Lubricant Researchgate
 - Setting Reading Goals Graphene A New Emerging Lubricant Researchgate
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Graphene A New Emerging Lubricant Researchgate
 - Fact-Checking eBook Content of Graphene A New Emerging Lubricant Researchgate
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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