

Editorial

Advanced Research on Internal Combustion Engines and Engine Fuels

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Abstract: Internal combustion (IC) engines serve as power devices that are widely applied in the fields of transport, engineering machinery, stationary power generation, etc., and are evolving towards the goal of higher efficiency and lower environmental impacts. In this Editorial, the role of IC engines for future transport and energy systems is discussed, and research directions for advancing IC engine and fuel technologies are recommended. Finally, we introduce the 14 technical papers collected for this Special Issue, which cover a wide range of research topics, including diesel spray characteristics, combustion technologies for low- and zero-carbon fuels, advanced combustion mode, fuel additive effects, engine operation under extreme conditions and advanced materials and manufacturing processes.

Keywords: internal combustion engine; fuel; renewable energy; carbon neutral; Special Issue

1. Introduction

Internal combustion (IC) engines have driven the development of human civilization and global economic growth, serving as a power device that is widely applied in the fields of transport, engineering machinery, stationary power generation, etc. The current global stock of passenger cars is around 1.19 billion, and the number of commercial vehicles totals 249 million, of which almost 99% are powered by IC engines, accounting for 81.3% of the oil demand in the transport sector [1]. Following that, maritime and aviation vehicles, which are also primarily powered by combustion engines, account for 7.9% and 7.1% of the transport oil demand, respectively [1]. Overall, the transport sector, including road, railway, aviation and shipping vehicles, accounts for 25.5% of global energy consumption [2] and contributes 16.2% of total global greenhouse gas (GHG) emissions as the fourth-largest source of emissions following industry (29.4%), agriculture, forestry and land use (18.4%) and construction (17.5%) [3]. Therefore, IC engines are a leading source of GHG emissions, and significant effort is needed to reduce their carbon footprint.

2. Current Status and Trends in IC Engine and Fuel Technologies

2.1. Progress in IC Engine Technologies

Since its conception in the late-19th century, the IC engine has undergone a continuous and rapid evolution and is now a complex assembly of numerous advanced technologies. To meet the ever-stringent emission regulations, tremendous effort has been dedicated to research and development aiming at an improvement in combustion efficiency and reduction in pollution emissions. The main harmful emissions generated from IC engine exhaust include particulate matter (PM), nitrogen oxide (NO_x), carbon monoxide (CO) and unburnt hydrocarbon (UHC). Figure 1 presents the trends in the US federal emission limits on PM, NO_x and non-methane organic gas (NMOG) emissions for light-duty fleet vehicles [4], which have been tightened significantly since their adoption in 1994. Over the past 40 years, including in the pre-regulation age, the emission levels of these harmful pollutants from IC engines have been effectively reduced by 100–1000 times. Taking the



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Advanced Internal Combustion Engine Research:

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Advanced Internal Combustion Engine Research**

In some sort of inundated with displays and the cacophony of quick transmission, the profound energy and mental resonance of verbal beauty often fade in to obscurity, eclipsed by the continuous assault of noise and distractions. However, situated within the lyrical pages of **Advanced Internal Combustion Engine Research**, a interesting work of fictional splendor that impulses with fresh thoughts, lies an unique journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, that exciting opus instructions visitors on an emotional odyssey, softly exposing the latent potential and profound influence stuck within the elaborate web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is key themes, dissect its fascinating writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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Table of Contents Advanced Internal Combustion Engine Research

1. Understanding the eBook Advanced Internal Combustion Engine Research
 - The Rise of Digital Reading Advanced Internal Combustion Engine Research
 - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Internal Combustion Engine Research
 - 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 Advanced Internal Combustion Engine Research
 - User-Friendly Interface

4. Exploring eBook Recommendations from Advanced Internal Combustion Engine Research
 - Personalized Recommendations
 - Advanced Internal Combustion Engine Research User Reviews and Ratings
 - Advanced Internal Combustion Engine Research and Bestseller Lists
5. Accessing Advanced Internal Combustion Engine Research Free and Paid eBooks
 - Advanced Internal Combustion Engine Research Public Domain eBooks
 - Advanced Internal Combustion Engine Research eBook Subscription Services
 - Advanced Internal Combustion Engine Research Budget-Friendly Options
6. Navigating Advanced Internal Combustion Engine Research eBook Formats
 - ePub, PDF, MOBI, and More
 - Advanced Internal Combustion Engine Research Compatibility with Devices
 - Advanced Internal Combustion Engine Research Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Advanced Internal Combustion Engine Research
 - Highlighting and Note-Taking Advanced Internal Combustion Engine Research
 - Interactive Elements Advanced Internal Combustion Engine Research
8. Staying Engaged with Advanced Internal Combustion Engine Research
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Advanced Internal Combustion Engine Research
9. Balancing eBooks and Physical Books Advanced Internal Combustion Engine Research
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Advanced Internal Combustion Engine Research
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Advanced Internal Combustion Engine Research
 - Setting Reading Goals Advanced Internal Combustion Engine Research
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Advanced Internal Combustion Engine Research
 - Fact-Checking eBook Content of Advanced Internal Combustion Engine Research
 - 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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