

Table of Contents

International Journal of Surface Engineering and Interdisciplinary Materials Science

Volume 8 • Issue 2 • July-December-2020 • ISSN: 2166-7225 • eISSN: 2166-7233

Research Articles

- 1 **Surface Effects on Engine Materials of Mineral Oil Dilution With Methyl Esters and Biodiesels**
Gustavo J. Molina, Georgia Southern University, USA
Emeka F. Onyejizu, Georgia Southern University, USA
John L. Morrison, Georgia Southern University, USA
Valentin Soloiu, Georgia Southern University, USA

- 19 **Nano-Scratch Response of Diamond-Like Carbon Film Deposited by Pulsed Direct Current Magnetron Sputtering**
T. Koch, Institute of Materials Science and Technology, Vienna University of Technology, Austria
M. Lackner, Institute of Surface Technologies and Photonics, Joanneum Research Forschungsges m.b.H., Austria
A. Pauschitz, AC2T Research GmbH, Austria
Manish Roy, Defence Metallurgical Research Laboratory, India

- 38 **Study of Dry Sliding Wear and Immersion Corrosion on Al 5083 Reinforced With MWCNT, MoB, and Ni**
Sajeeb Rahiman, Karunya Institute of Technology, India
Robinson Smart, Karunya Institute of Technology, India

- 52 **Experimental Analysis of Tribological Properties of Simarouba Glauca Biodiesel With Nanoparticles**
Eknath Nivrutti Aitavade, Visvesvaraya Technological University, India
S. C. Kamate, Hirasugar Institute of Technology, India

- 66 **Analyzing the Effect of B4C/Al2O3 on the Wear Behavior of Al-6.6Si-0.4Mg Alloy Using Response Surface Methodology**
Vishnu Anil Kumar, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, India
Vaishnav Vinodkumar Vinod Kumar, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, India
Goutham S Menon, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, India
Sivcharan Bimaldev, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, India
Manu Sankar, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, India
Karthik V Shankar, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham, Amritapuri, India
Meera Balachandran, Department of Chemical Engineering and Materials Science, Amrita, India & School of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore, India

COPYRIGHT

The **International Journal of Surface Engineering and Interdisciplinary Materials Science (IJSEIMS)** (ISSN 2166-7225; eISSN 2166-7233), Copyright © 2020 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of Surface Engineering and Interdisciplinary Materials Science* is indexed or listed in the following: Cabell's Directories; Google Scholar; INSPEC; MediaFinder; SCOPUS; The Standard Periodical Directory; Ulrich's Periodicals Directory