



Table of contents

Editorial	i
Table of contents	iii
1. Frictional study of tungsten carbide mechanical seal under synthetic oil mixed with acrylamide powder lubrication Krishna Kumar, P., Selvam, R., Shankar, S., Arun Vasantha Geethan, K., Ramesh, B., Ashwin Kannan, S.	1
2. An experimental investigation on tribological characteristics of graphite/MWCNT mixed hybrid cutting fluids Ganesh, S., Prabhu S.	16
3. A systematic review on corrosive-wear of automotive components materials Md. A. Maleque, Safa Y. Cetin, Masjuki Hassan, Mohd Hafiz Sulaiman, Adib Hamdani Rosli	33
4. A numerical algorithm for grease-lubricated point contact at different regimes of lubrication Nur Aisya Afrina Mohamed Ariffin, Hooi Hwang Ang, Siti Hartini Hamdan, Haris Ahmad Israr Ahmad, William Woei Fong Chong	50
5. Microstructural features and mechanical, wear and thermal conductivity characteristics of eggshell derived hydroxyapatite reinforced epoxy bio-composites Isiaka O. Oladele, Anuoluwapo S. Taiwo Linus N. Onuh, Baraka A. Makinde-Isola	68
6. Tribo-corrosion behaviour of composites and coatings: An overview of influencing factors, evaluation methods and inhibitors Sheikh Aamir Farooq, Ankush Raina, Mir Irfan Ul Haq, Armin Rajabi, Sanjay Mohan, Ankush Anand	92
7. The tribology performance of silica nanoparticles as lubricant additives in a reciprocating four-stroke engine motorcycle Yeou-Feng Lue, Wei-Liang Hsiao, Yi-Shun Chen	117
8. Frictional wear of improved valve hermetic elements caused by heat transfer Khalig Mammadov, Jamaladdin Aslanov	134

9. **Numerical simulation of wheel/rail contact based on DC-FFT and conjugate gradient techniques**
Zhijian Wang, Xue Lv, Qingtao Yu 150
10. **Surface quality and absorption properties of polymeric composite (PLA-PCU) fabricated using 3D printing for articular cartilage application**
Muhammad Nur Akmal Kazim, Mohd Fadzli Bin Abdollah, Hilmi Amiruddin, S. Liza, Faiz Redza Ramli 167