



Table of contents

Editorial	i
Table of contents	iii
1. Numerical study on hydrodynamic pressure characteristics of journal bearings: Role of L/D ratio and surface texturing Nadia Nurul Nabihah Ahmad Fuad, Mohamad Ali Ahmad, Salmiah Kasolang, Jaharah A. Ghani	1
2. Tetrahedral amorphous carbon (Ta-C:Ti) nanocomposite coating application on selector carrier for friction reduction in double diaphragm pump Mashitah Mohamad Zahir, Muhammad Hafiz Hassan, Ryan Teh	14
3. Erosion wear performance of cobalt alloy coating prepared through electrodeposition method Mohd Zakuan Zabri, Nik Rozlin Nik Mohd Masdek, Koay Mei Hye	27
4. Application of acoustic emission sensing to the evaluation of cookie texture under varying moisture and structural conditions Alan Hase	42
5. Improvement of tribological properties of aluminium 7075 enhanced with TiO nanoparticles by friction stir processing Muhammad Zulkarnain, Lailatul Harina Paijan, Mohammad Kamil Sued, Abdul Munir Hidayat Syah Lubis	53
6. Hybrid thermochemical treatment effects on hardness and tribological behavior of LPBF-fabricated 316L stainless steel under dry and lubricated conditions Nur Suraya Amad Mazni, Wardina Zalia Hariulnizam, Mohd Shahrman Adenan, Minoru Goto	68
7. Surface roughness analysis in turning titanium alloy under MQL and cryogenic coolants Mohd Amri Sulaiman, Mohd Shukor Salleh, Nor Khairusshima Muhammad Khairussaleh, Ikhwan Nasir Ibrahim, Siti Haryani Tomadi, Muhammad Rizal	83
8. Steady-state performance analysis of macro-grooved hydrodynamic journal-bearing Arun Bangotra, Sanjay Sharma	95

9.	Investigations on the tribological behavior of wire arc additively manufactured AA7075-nano-TiC metal matrix composite Arulkumar Subramanian, Anandkrishnan V, Shiek Ismail L A, Kavinraj S R, Jayasankari S	116
10.	Tribological performance of super olein added with Butylated Hydroxyanisole (BHA) and Butylated Hydroxytoluene (BHT) by using pin on disc tribotester for hydrogen engine lubrication Wei Quan Chong, Zulhanafi Paiman, Syahrullail Samion, Fakhrul Hakim	127
11.	Traction performance analysis and life prediction of elevator traction wheel based on three-dimensional point cloud reconstruction Jian Liu, Haijian Wang, Xiaoguang Pan, Xishan Zhu, Chengwei Ju, Chengwen Yu	148
12.	Tribological properties of trimethylolpropane trioleat as hydraulic fluids blended with anti-wear additives Reduan Mat Dan, Muhammad Fahrur Rozi, Faizil Wasbari	174
13.	Prediction of tribological behavior of solid lubricants using artificial neural network Jijo Jose, Abhijeet Shivaji Suryawanshi, NIranjana Behera	192
14.	The optimal eco-friendly lubricant selection using analytical hierarchy process Juliana Basiron, Mohd Fadzli Bin Abdollah, Muhammad Ilman Hakimi Chua Abdullah, Hilmi Amiruddin	208
15.	The impact of bearing profile variation on the tribological performance of journal bearing under shaft misalignment Moneer H. Tolephih, Hazim U. Jamali, Helen A. Almosawy, Oday Abdullah, Zahraa A. AL-Dujaili	249