

Riaz Ahmed Mufti

Professor

School of Mechanical & Manufacturing Engineering

Email: riazmufti@smme.nust.edu.pk

Contact: 009233397

LinkedIn:



About

Dr. Riaz Ahmed Mufti is working as Professor in the School of Mechanical & Manufacturing Engineering. Dr. Riaz Ahmed Mufti has a PhD in Automotive Engine. Dr. Riaz Ahmed Mufti has published 49 research articles & conference papers having a citation count of 1339, carried out 14 projects and filed 3 intellectual property.

Qualifications

PhD in Automotive Engine University of Leeds , United Kingdom	2000 - 2003
MS in Automotive University of Leeds , United Kingdom	1997 - 1998

Experience

Professor School of Mechanical & Manufacturing Engineering	2020- Present
Professor School of Mechanical & Manufacturing Engineering	2018 - 2020
Professor School of Mechanical & Manufacturing Engineering	2016 - 2018
Professor School of Mechanical & Manufacturing Engineering	2011 - 2016
Associate Professor School of Mechanical & Manufacturing Engineering	2009 - 2011
Snr Tech Engr/Innova/Tech Dev British Petroleum Tec, UK , Center Pangbourne, UK	2003 - 2009
Second Engr Celtic Pacific Shipping Company (NS),Aberdeen, UK , Celtic Pacific Shipping Company (NS), Aberdeen,	1996 - 1999
Fifth Engr PNSC, Karachi , PNSC, Karachi	1993 - 1995

Awards

• Presidents' Pride of Performance, Government of Pakistan. • Gold Medal, Federation of Pakistan Chambers of Commerce and Industry (FPCCI). • HEC Best Innovator Award (4th HEC Outstanding Research Award). • HEC Best Innovator Award (5th HEC Outstanding Research Award). First Pakistani to receive the Innovation award twice. • Automotive Innovation Award, 2013. • Technology Award, Invention to Innovation 2016. On Commercial Product: Engine Health Monitoring System. • Technology Award, Invention to Innovation 2016. On Commercial Product: Radiator Leak Detection System • Presidents' Gold Medal 2014, Best Innovation and Commercialization Award.

Research Projects

National Projects

Development of Electric Vehicle for Short Daily Commute by Conversion Funding Agency: NUST Amount: PKR 10,000,000.00 Status: Approved_inprocess	2024
Upgradation of Sensor Positioning and Recording System Funding Agency: MTC Amount: PKR 7,500,000.00 Status: Approved_inprocess	2024
Follower Rotation Measurement on the VWTDI CYLINDER HEAD Funding Agency: British Petroleum Amount: PKR 846,000.00 Status: Completed	2011
Measurement on the Multifunctional Valve Trains RIG Funding Agency: British Petroleum Amount: PKR 17,000,000.00 Status: Completed	2011
Tribological Performance of Cam/Tappet Interaction in a Direct Acting Over Head Valve Train Engine Funding Agency: PSF Amount: PKR 1,950,000.00 Status: Completed	2011
Design and Development of Electric Motor Cycle and 3-Wheeler Electric Mini Car Funding Agency: HEC Amount: PKR 8,000,000.00 Status: Completed	2007
Development of Smart Metrology Machine Funding Agency: HEC Amount: PKR 19,310,000.00 Status: Approved_inprocess	2022
Design, development and Implementation of a Data Acquisition System for Measuring the Performance Parameters of an Internal Combustion Engine Funding Agency: NUST Amount: PKR 300,000.00 Status: Completed	2021
Development of tribologically-advanced and environment-friendly valve train assembly for automotive engine Funding Agency: HEC Amount: PKR 16,914,000.00 Status: Completed	2019
Design and Development of Vacuum forming Machine Funding Agency: HEC Amount: PKR 12,800,000.00 Status: Completed	2019
Design and Development of Vertical Balancing Machine Funding Agency: HEC Amount: PKR 9,131,000.00 Status: Completed	2017

International Projects

Industry Projects

National Projects

Automated Crankshaft Inspection Machine Client: Industry Amount: PKR 4,865,000.00 Status: Approved_inprocess	2021
Gear Roll Tester Client: -- Amount: PKR 1,260,000.00 Status: Approved_inprocess	2022
Hydraulic Steering Actuator Test Rig Client: Royal Tech Pvt Ltd Amount: PKR 1,400,000.00 Status: Completed	2018

International Projects

Research Articles

A novel approach to measure rotational dynamics of valvetrain components in production engines using miniature GMR chip <i>Sehrish Shahnawaz Riaz Ahmed Mufti Mian Ashfaq Ali Rehan Zahid Jawad Aslam Muhammad Rizwan Siddiqui Muhammad Usman Bhutta</i> <i>Measurement</i> , Volume 256, Part D, Article Number 118455 Impact Factor: 5.600 Quartile: 1 DOI: https://doi.org/10.1016/j.measurement.2025.118455	2025
Friction and Wear Properties of Phosphonium Based Ionic Liquid Used as Additive in Synthetic and Bio Based Lubricants <i>Nouman Haider Muhammad moneeb Butt Rehan Zahid Mian Ashfaq Ali Jawad Aslam Riaz Ahmed Mufti Muhammad Usman Bhutta</i> <i>Tribology in Industry</i> , Volume 46, No. 4, Pages 611-623 Impact Factor: N/A Citations: 1 DOI: 10.24874/ti.1648.03.24.08	2024
Effect of micro-surface-texturing on the friction between cam/tappet interface of a commercial vehicle engine <i>Muhammad Rizwan Siddiqui Mian Ashfaq Ali Riaz Ahmed Mufti Jawad Aslam Muhammad Usman Bhutta Rehan Zahid Muhammad Khuram</i> <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , Pages 1-19 Impact Factor: 1.600 Quartile: 3 Citations: 2 DOI: https://doi.org/10.1177/13506501241266116	2024
Ionic Liquids as Lubricants: An Overview of Recent Developments <i>Riaz Ahmad mufti Saad Waheed Arslan Ahmed Muhammad Abid Fábio Ferreira Muhammad Nasir Bashir Atta Ur Rehman Shah Ali Turab Jafry Nurin Wahida Zulkifli I M Rizwanul Fattah</i> <i>Journal of Molecular Structure</i> , Volume 1301, Article Number 137307 Impact Factor: 4.000 Quartile: 2 Citations: 23 DOI: https://doi.org/10.1016/j.molstruc.2023.137307	2024
Experimental Investigation of Engine Valve Train Friction Considering Effects of Operating Conditions and WPC Surface Treatment <i>Muhammad Usman Bhutta Muhammad Huzaiifa Najeeb Muhammad Usman Abdullah Sami Ur Rahman Shah Muhammad Khurram Riaz Ahmed Mufti Kiyotaka Ogawa Jawad Aslam Rehan Zahid Mian Ashfaq Ali Muazzam Arshad</i> <i>Materials</i> , Volume 16(9), Article Number 3431 Impact Factor: 3.748 Quartile: 1 Citations: 4 DOI: https://doi.org/10.3390/ma16093431	2023
Friction and Wear Performance Evaluation of Bio-Lubricants and DLC Coatings on Cam/Tappet Interface of Internal Combustion Engines <i>Rehan Zahid Muhammad Usman Bhutta Riaz Ahmad Mufti Muhammad Usman Abdullah Haji Hassan Masjuki Mahendra Varman Muhammad Abul Kalam Mian Ashfaq Ali Jawad Aslam Khalid Akhtar</i> <i>Materials</i> , Volume 14(23), Article Number 7206 Impact Factor: 3.623 Quartile: 1 Citations: 7 DOI: https://doi.org/10.3390/ma14237206	2021

- A review on tribological performance of ionic liquids as additives to bio lubricants** 2021
Tehreem Naveed Rehan Zahid Riaz Ahmad Mufti Muhammad Waqas Muhammad Talha Hanif
Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, Volume 235, issue 9, Pages 1782-1806
Impact Factor: 1.674 | **Quartile:** 3 | **Citations:** 33
DOI: <https://doi.org/10.1177%2F1350650120973805>
- A Review on Tribological Study of DLC Coatings in Combination with Bio Based Lubricants** 2021
Muhammad Talha Hanif Rehan Zahid Riaz Ahmed Mufti Muhammad Waqas Tehreem Naveed
International Journal of Materials Science and Applications, Volume 10(3), Pages 61-78
Impact Factor: N/A
DOI: doi: 10.11648/j.ijmsa.20211003.13
- Roller sliding in engine valve train: Effect of oil film thickness considering lubricant composition** 2020
Muhammad Khurram Riaz Ahmad Mufti Muhammad Usman Bhutta Hafiz Malik Naqash Afzal Muhammad Usman Abdullah Sami Ur Rahman Shah Saif ur
Rehman Rehan Zahid Khalid Mahmood Mian Ashfaq Muhammad Umar
Tribology International, Volume 149, Article Number 105829
Impact Factor: 4.872 | **Quartile:** 1 | **Citations:** 11
DOI: 10.1016/j.triboint.2019.06.022
- Experimental and theoretical evaluation of friction in roller follower valve train** 2020
Riaz Ahmad Mufti Khalid Akhtar Muhammad Umar Muhammad Khurram Tayyab ul Islam
Measurement, Volume 160, Article Number 107808
Impact Factor: 3.927 | **Quartile:** 1 | **Citations:** 12
DOI: <https://doi.org/10.1016/j.measurement.2020.107808>
- Optimization of Sintering Parameters of 316L Stainless Steel for In-Situ Nitrogen Absorption and Surface Nitriding Using Response Surface Methodology** 2020
Sadaqat Ali Ahmad Majdi Abdul Rani Riaz Ahmad Mufti Syed Waqar Ahmed Zeeshan Baig Sri Hastuty Muhammad Al'Hapis Abdul Razak Abdul Azeez Abdu Aliyu
Processes, Volume 8(3), Article Number 297
Impact Factor: 2.847 | **Quartile:** 3 | **Citations:** 9
DOI: <https://doi.org/10.3390/pr8030297>
- Comparison of Flash Temperature at Cam–Tappet Interface Using Different Theoretical Models and Its Effect on Friction Torque** 2020
Muhammad Umar Riaz Ahmad Mufti Muhammad Khurram
Tribology Transactions, Volume 63, Issue 3, Pages 425-438
Impact Factor: 1.960 | **Quartile:** 3 | **Citations:** 9
DOI: <https://doi.org/10.1080/10402004.2019.1701755>
- Simulating cam and follower wear in valve train** 2020
Adnan Ahmad Muhammad Khurram Riaz Ahmad Mufti Muhammad Umar
Tribology - Materials, Surfaces & Interfaces, Volume 14, Issue 1, Pages 59-65
Impact Factor: 0 | **Citations:** 5
DOI: DOI:10.1080/17515831.2019.1675018
- The Influence of Nitrogen Absorption on Microstructure, Properties and Cytotoxicity Assessment of 316L Stainless Steel Alloy Reinforced with Boron and Niobium** 2019
Sadaqat Ali Ahmad Majdi Abdul Rani Riaz Ahmad Mufti Farooq I. Azam Sri Hastuty Zeeshan Baig Murid Hussain Nasir Shehzad
Processes, Volume 7, Issue 8, Article Number 506
Impact Factor: 2.753 | **Quartile:** 2 | **Citations:** 14
DOI: 10.3390/pr7080506
- An Efficient Approach for Nitrogen Diffusion and Surface Nitriding of Boron-Titanium Modified Stainless Steel Alloy for Biomedical Applications** 2019
Sadaqat Ali Ahmad Majdi Abdul Rani Riaz Ahmad Mufti Sri Hastuty Murid Hussain Nasir Shehzad Zeeshan Baig Abdul Azeez Abdu Aliyu
Metals, Volume 9(7), Article Number 755
Impact Factor: 2.117 | **Quartile:** 2 | **Citations:** 14
DOI: 10.3390/met9070755
- Tribological compatibility analysis of conventional lubricant additives with palm trimethylolpropane ester (TMP) and tetrahedral amorphous diamond-like carbon coating (ta-C)** 2018
Dr. Riaz Ahmad Mufti Dr. Mubashir Gulzar Dr. Masjuki Dr. Abdullah Alabdulkarem, Dr. Mahendra Varman, Dr. Md Abul . Kalam, Dr. Nurin Wahidah Binti Mohd Zulkifli Dr. Robiah Yunus Rehan Zahid
Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, NULL

- Impact Factor:** 1.137 | **Quartile:** 3 | **Citations:** 1
DOI: 10.1177/1350650117746803
- Tribological characteristics comparison of formulated palm trimethylolpropane ester and polyalphaolefin for cam/tappet interface of direct acting valve train system** 2018
Rehan Zahid Masjuki Hj. Hassan Abdullah Alabdulkarem Mahendra Varman Md. Abul Kalam Riaz Ahmad Mufti Nurin Wahidah Mohd Zulkifli Mubashir Gulzar Muhammad Usman Bhutta Mian Ashfaq Ali Usman Abdullah Robiah H. Yunus
Industrial Lubrication and Tribology , Volume 70 Issue 5
Impact Factor: 1.037 | **Quartile:** 4 | **Citations:** 13
DOI: <https://doi.org/10.1108/ILT-06-2017-0156>
- Benefits of wonder process craft on engine valve train performance** 2018
Muhammad Usman Abdullah Samiur Rahman Shah M. Usman Bhutta Riaz Ahmad Mufti Muhammad Khurram M. Huzaifa Najeeb Waseem Arshad Kiyo Ogawa
Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, online published on 12 March 2018
Impact Factor: 1.275 | **Quartile:** 3 | **Citations:** 8
DOI: 10.1177/0954407018760935
- Effect of flash temperature on engine valve train friction** 2018
Riaz Ahmed Mufti Muhammad Umar Muhammad Khurram
Tribology International , Volume 118 – Feb 1, 2018
Impact Factor: 3.517 | **Quartile:** 1 | **Citations:** 25
DOI: 10.1016/j.triboint.2017.09.030
- Dispersion Stability and Tribological Characteristics of TiO₂/SiO₂ Nanocomposite-Enriched Biobased Lubricant** 2017
M. Gulzar H. H. Masjuki M. A. Kalam M. Varman N. W. M. Zulkifli Riaz Ahmed Mufti Rehan Zahid R. Yunus
Tribology Transactions , Volume 60, Issue 4,
Impact Factor: 1.722 | **Quartile:** 2 | **Citations:** 64
DOI: 10.1080/10402004.2016.1202366
- Investigation of laser texture density and diameter on the tribological behavior of hydrogenated DLC coating with line contact configuration** 2017
A. Arslan M.A. Kalam M.H. Mosarof M.M. Quazi L.S. Khuong M. Liaquat Abdullah Alabdulkarem H.H. Masjuki M. Varman Riaz A. Mufti M. Jamshaid M. Khurram
Surface and Coatings Technology, Volume: 322 Pages: 31-37
Impact Factor: 2.906 | **Quartile:** 1 | **Citations:** 24
DOI: 10.1016/j.surfcoat.2017.05.037
- Technique developed to study camshaft and tappet wear on real production engine** 2017
Waseem Arshad Muhammad Adnan Hanif Muhammad Usman Bhutta Riaz Ahmad Mufti Samiur Rahman Shah Muhammad Usman Abdullah Muhammad Huzaifa Najeeb
Industrial Lubrication and Tribology , Volume: 69 Issue: 2 Pages: 174-181
Impact Factor: 0.763 | **Quartile:** 4 | **Citations:** 11
DOI: 10.1108/ILT-06-2016-0135
- A Review on Effects of Lubricant Formulations on Tribological Performance and Boundary Lubrication Mechanisms of Non-Doped DLC/DLC Contacts** 2017
Rehan Zahid Masjuki Bin Haji Hassan Mahendra Varman Riaz Ahmad Mufti Md. Abul Kalam Nurin Wahidah Binti Mohd Zulkifli Mubashir Gulzar
Critical Reviews in Solid State and Materials Sciences , Volume 42, Issue 4, Pages 267-294
Impact Factor: 5.656 | **Quartile:** 1 | **Citations:** 32
DOI: <http://dx.doi.org/10.1080/10408436.2016.1186599>
- Surface Texture Manufacturing Techniques and Tribological Effect of Surface Texturing on Cutting Tool Performance: A Review** 2016
Arzu Arslan Haji Hassan Masjuki Md. Abul Kalam Mahendra Varman Riaz Ahmad Mufti M. H. Mosarof L. S. Khuong Moumin Quazi
Critical Reviews in Solid State and Materials Sciences, Volume 41, Issue 6, Pages 447-481
Impact Factor: 6.455 | **Quartile:** 1 | **Citations:** 202
DOI: doi:10.1080/10408436.2016.1186597
- Effects of biodiesel blends on lubricating oil degradation and piston assembly energy losses** 2016
Mubashir Gulzar H.H. Masjuki M. Varman M.A. Kalam N.W.M. Zulkifli Riaz Ahmad Mufti A.M. Liaquat Rehan Zahid A. Arslan
Energy , Volume 111, Pages 713-721
Impact Factor: 4.520 | **Quartile:** 1 | **Citations:** 51
DOI: 10.1016/j.energy.2016.05.132

Tribological performance of nanoparticles as lubricating oil additives <i>Mubashir Gulzar H. H. Masjuki M. A. Kalam M. Varman N. W. M. Zulkifli Riaz Ahmad Mufti Rehan Zahid</i> <i>Journal of Nanoparticle Research</i> , Volume 18, Article Number 223 Impact Factor: 2.020 Quartile: 2 Citations: 373 DOI: doi:10.1007/s11051-016-3537-4	2016
Influence of intrinsic and extrinsic conditions on the tribological characteristics of diamond-like carbon coatings: A review <i>Rehan Zahid Haji Hassan Masjuki Mahendra Varman Muhammad Abul Kalam Riaz Ahmad Mufti Nurin Wahidah Binti Mohd Zulkifli Mubashir Gulzar Siti Safiyah Binti Nor Azman</i> <i>Journal of Materials Research</i> , Volume 31, Issue 13, Pages 1814-1836 Impact Factor: 1.673 Quartile: 3 Citations: 36 DOI: doi:10.1557/jmr.2016.31	2016
Effect of lubricant chemistry on the performance of end pivoted roller follower valve train <i>Muhammad Khurram Riaz Ahmad Mufti Rehan Zahid Hafiz Malik Naqash Afzal Muhammad Usman Bhutta Mushtaq Khan</i> <i>Tribology International</i> , Volume: 93, Special Issue:SI, Pages:717-722, Part:B Impact Factor: 2.903 Quartile: 1 DOI: 10.1016/j.triboint.2014.10.021	2016
Experimental measurement of roller slip in end-pivoted roller follower valve train <i>Muhammad Khurram Riaz Ahmad Mufti Rehan Zahid Hafiz Malik Naqash Afzal Muhammad Usman Bhutta</i> <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , Volume 229, Issue 9, Pages 1047-1055 Impact Factor: 0.907 Quartile: 3 Citations: 16 DOI: 10.1177/1350650115572198	2015
Improving the AW/EP ability of chemically modified palm oil by adding CuO and MoS2 nanoparticles <i>M. Gulzar HH Masjuki M Varman MA Kalam Riaz Ahmad Mufti NWM Zulkifli R. Yunus Rehan Zahid</i> <i>Tribology International</i> , Volume 88, Pages 271-279 Impact Factor: 2.259 Quartile: 1 Citations: 195 DOI: doi:10.1016/j.triboint.2015.03.035	2015
A Numerical Approach to Calculate Creep in Roller Follower Valve Train Basing on Friction and Lubrication Modeling <i>Muhammad Khurram Riaz Ahmad Mufti Muhammad Usman Bhutta Yousaf Habib Arslan Ahmed Naqash Afzal</i> <i>Transactions of the Canadian Society for Mechanical Engineering</i> , Volume 39, No. 4, Pages 805-818 Impact Factor: 0.333 Quartile: 4 DOI: -	2015
Innovative technique of measuring follower rotation in real production engine using Gradiometer sensor and the effect of friction modifier <i>Riaz Ahmed Mufti Rehan Zahid Farrukh Qureshi Jawad Aslam</i> <i>Industrial Lubrication and Tribology</i> , Volume 67 Issue 4 Pages 285-291 Impact Factor: 0.406 Quartile: 4 Citations: 5 DOI: 10.1108/ILT-07-2013-0076	2015
Measuring the tribological performance of all the tappets in a production engine using magnetometer sensors and the effect of lubricant rheology <i>Riaz Ahmad Mufti Rehan Zahid Farrukh Qureshi Jawad Aslam Hafiz Malik Naqash Afzal Muhammad Usman Bhutta</i> <i>Lubrication Science</i> , Volume 27, Issue 4, Pages 251-263 Impact Factor: 1.384 Quartile: 2 Citations: 5 DOI: 10.1002/lis.1276	2015
Effect of Lubricant Formulations on the Tribological Performance of Self-Mated Doped DLC Contacts: a review <i>Rehan Zahid H. H. Masjuki Mahendra Varman Riaz Ahmad Mufti Md. Abul Kalam Mubasher Gulzar</i> <i>Tribology Letters</i> , Volume 58, Article Number 32 Impact Factor: 1.758 Quartile: 2 Citations: 54 DOI: DOI:10.1007/s11249-015-0506-5	2015
The potential of solar powered transportation and the case for solar powered railway in Pakistan <i>Syed Husain Imran Jaffery Mushtaq Khan Liaqat Ali Hassan Abbas Khan Riaz Ahmad Mufti Ashfaq Khan Nawar Khan Syed M. Jaffery</i> <i>Renewable and Sustainable Energy Reviews</i> , Volume 39, Pages 270-276 Impact Factor: 5.901 Quartile: 1 Citations: 58 DOI: https://doi.org/10.1016/j.rser.2014.07.025	2014

Effect of cylinder pressure on engine valve-train friction under motored and fired conditions 2012
Riaz Ahmed Mufti M Priest
Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, Volume 226(4), Pages 306-314
Impact Factor: 0.631 | **Quartile:** 3
DOI: 10.1177/1350650111432

Conference Proceedings

An Advanced Method for Measuring Shim and Tappet Dynamics and Analysing the Effects of Friction Modifiers in Engine Valvetrains 2025
Sehrish Shahnawaz Riaz Ahmed Mufti Waleed Al-Sallami Mian Ashfaq Ali Rehan Zahid Jawad Aslam
50th Leeds Lyon Symposium on Tribology, res.country(231,)
Citations: N/A
DOI: Nil

Measurement of frictional torque of a directacting valvetrain using a shaft-to-shaft torque transducer to study the effect of Laser Surface Texturing on friction reduction 2024
Measurement of frictional torque of a directacting valvetrain using a shaft-to-shaft torque transducer to study the effect of Laser Surface Texturing on friction reduction
Measurement of frictional torque of a directacting valvetrain using a shaft-to-shaft torque transducer to study the effect of Laser Surface Texturing on friction reduction
Measurement of frictional torque of a directacting valvetrain using a shaft-to-shaft torque transducer to study the effect of Laser Surface Texturing on friction reduction
Muhammad Rizwan Siddiqui Mian Ashfaq Ali Riaz Ahmed Mufti Jawad Aslam Muhammad Usman Bhutta Rehan Zahid Muhammad Khurram
2nd International Conference on Modern Technologies in Mechanical & Material Engineering, MTME 2024, GIKI, Pakistan (Best paper award)
res.country(177,)
Citations: N/A
DOI: <https://doi.org/10.1051/mateconf/202439801002>

Effect of Roller Sliding and Lubricant Composition on Engine Valve Train Friction 2023
Muhammad Khurram Dr Riaz Ahmad Mufti Dr Muhammad Usman Bhutta Dr Naqash Afzal Muhammad Usman Abdullah Tayyab Ul Islam Ali Raza Dr Rehan Zahid Irfan Gondal
Leeds-Lyon Symposium on Tribology, res.country(231,)
Citations: N/A
DOI: Available after Publishing of Article

Experimental Study of Lubrication Conditions in Roller Follower Valve Train 2023
Muhammad Khurram Riaz Ahmad Mufti Muhammad Usman Bhutta Muhammad Usman Abdullah Naqash Afzal Ali Raza Tayyab Ul Islam Irfan Gondal Rehan Zahid Sami Ur Rehman
Leeds-Lyon Symposium on Tribology, res.country(231,)
Citations: N/A
DOI: Available after Publishing of Article

Effect of WPC Surface Treatment on the Performance of an Engine Valve Train 2023
Dr Muhammad Usman Bhutta Shahbaz Ahmad Samiur Rahman Shah Muhammad Khurram Riaz Ahmad Mufti Dr Muhammad Usman Abdullah Kiyo Ogawa Rehan Zahid Dr Jawad Aslam Mian Ashfaq Ali Tayyab Ul Islam
Leeds-Lyon Symposium on Tribology, res.country(231,)
Citations: N/A
DOI: Available after Publishing of Article

Effect of Lubricant Formulations on the Friction Performance of Diamond-Like Carbon (DLC) Coated Direct-Acting Valve Train Components 2016
Dr. Rehan Zahid HH Masjuki Dr. Riaz Ahmad Mufti MA Kalam M Varman Robiah Yunus
4th International Congress on Technology - Engineering & Science, res.country(157,)
Citations: N/A
DOI: Nil

AW/EP behavior of WS2 nanoparticles added to vegetable oil-based lubricant 2015
Dr. Mubashir Gulzar HH Masjuki MA Kalam M Varman Dr. Riaz Ahmad Mufti Dr. Rehan Zahid Robiah Yunus
Malaysian International Tribology Conference 2015, res.country(157,)
Citations: N/A
DOI: Nil

Comparison of tribological performance of zinc dialkyldithiophosphate (ZDDP) in poly-alpha-olefin (PAO) and palm oil-based trimethylopropane (TMP) Ester 2015
Dr. Rehan Zahid HH Masjuki M Varman Dr. Riaz Ahmad Mufti MA Kalam Dr. Mubashir Gulzar Robiah Yunus

Malaysian International Tribology Conference 2015, res.country(157,)

Citations: N/A

DOI: Nil

Tribological evaluation of palm oil-based trimethylopropane (TMP) ester with glycerol mono-oleate (GMO) using four-ball machine	2015
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Dr. Rehan Zahid HH Masjuki Mahendra Varman Dr. Riaz Ahmad Mufti Md. Abul Kalam NWM Zulkifli
1st International Sustainable Technology, Energy and Civilization Conference, res.country(157,)

Citations: N/A

DOI: Nil

The use of Giant Magneto Resistive sensors for measuring the performance of direct acting tappets and the effect of lubricant rheology	2013
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Jawad Aslam Rehan Zahid Riaz Ahmad Mufti Farrukh Qureshi
5th World Tribology Congress, res.country(109,)

Citations: N/A

DOI: N/A

Intellectual Property

Copyrights

Patents

Design and Development of parallel arm vertical disc brake balancing Machine	2021
Status: Filed	

Development of engine blow-by meter based on microcontroller and axel flow meter	2013
Status: Filed	

Technique and apparatus for engine tappet monitoring system	2013
Status: Filed	

Industrial Designs

Trademarks