

Mian Ashfaq Ali

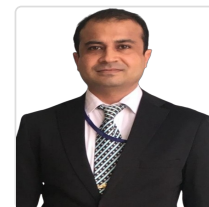
Associate Professor

School of Mechanical & Manufacturing Engineering

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Contact: 0518741302

LinkedIn:



About

Dr. Mian Ashfaq Ali is working as Associate Professor in the School of Mechanical & Manufacturing Engineering. Dr. Mian Ashfaq Ali has a PhD in Automotive Engineering. Dr. Mian Ashfaq Ali has published 23 research articles & conference papers having a citation count of 229, carried out 4 projects and filed 1 intellectual property.

Qualifications

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| PhD in Automotive Engineering Hanyang University , Korea | 2012 - 2015 |
| MS in Automotive Engineering Hanyang University , Korea | 2008 - 2009 |
| BE in Mechanical Engineering UET Peshawar , Pakistan | 2002 - 2006 |

Experience

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|--|---------------|
| Associate Professor School of Mechanical & Manufacturing Engineering | 2022- Present |
| Assistant Professor School of Mechanical & Manufacturing Engineering | 2021 - 2022 |
| Assistant Professor School of Mechanical & Manufacturing Engineering | 2019 - 2021 |
| Assistant Professor School of Mechanical & Manufacturing Engineering | 2016 - 2019 |
| Assistant Professor School of Mechanical & Manufacturing Engineering | 2016 - 2016 |
| Lecturer School of Mechanical & Manufacturing Engineering | 2010 - 2016 |
| Engineer KTC , KTC Mardan | 2006 - 2008 |

Awards

Professional Memberships

PEC

Research Projects

National Projects

| | |
|---|------|
| Development of Electric Vehicle for Short Daily Commute by Conversion | 2024 |
| Funding Agency: NUST | |
| Amount: PKR 10,000,000.00 | |
| Status: Approved_inprocess | |
| Design & Development of a Prototype Linear Motor Drive | 2022 |
| Funding Agency: Defence R&D Dte | |
| Amount: PKR 4,700,000.00 | |
| Status: Approved_inprocess | |
| Development of Smart Metrology Machine | 2022 |
| Funding Agency: HEC | |
| Amount: PKR 19,310,000.00 | |
| Status: Approved_inprocess | |
| Design and Development of Vacuum forming Machine | 2019 |
| Funding Agency: HEC | |
| Amount: PKR 12,800,000.00 | |
| Status: Completed | |

International Projects

Research Articles

| | |
|--|------|
| A novel approach to measure rotational dynamics of valvetrain components in production engines using miniature GMR chip | 2025 |
| Sehrish Shahnawaz Riaz Ahmed Mufti Mian Ashfaq Ali Rehan Zahid Jawad Aslam Muhammad Rizwan Siddiqui Muhammad Usman Bhutta | |
| Measurement , Volume 256, Part D, Article Number 118455 | |
| Impact Factor: 5.600 Quartile: 1 | |
| DOI: https://doi.org/10.1016/j.measurement.2025.118455 | |
| Friction and Wear Properties of Phosphonium Based Ionic Liquid Used as Additive in Synthetic and Bio Based Lubricants | 2024 |
| Nouman Haider Muhammad moneeb Butt Rehan Zahid Mian Ashfaq Ali Jawad Aslam Riaz Ahmed Mufti Muhammad Usman Bhutta | |
| Tribology in Industry , Volume 46, No. 4, Pages 611-623 | |
| Impact Factor: N/A Citations: 1 | |
| DOI: 10.24874/ti.1648.03.24.08 | |
| Effect of micro-surface-texturing on the friction between cam/tappet interface of a commercial vehicle engine | 2024 |
| Muhammad Rizwan Siddiqui Mian Ashfaq Ali Riaz Ahmed Mufti Jawad Aslam Muhammad Usman Bhutta Rehan Zahid Muhammad Khuram | |
| Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, Pages 1-19 | |
| Impact Factor: 1.600 Quartile: 3 Citations: 2 | |
| DOI: https://doi.org/10.1177/13506501241266116 | |
| Numerical investigation of vortex-induced vibrations (VIV) of a rotating cylinder in in-line and cross-flow directions subjected to oscillatory flow | 2024 |
| Ubaid Ur Rehman Adnan Munir Niaz Bahadur Khan Ming Zhao Mian Ashfaq Ali Muhammad Kashif Mohammad S. Islam Zeeshan Saeed | |
| Ocean Engineering , Volume 304 , Article Number 117917 | |
| Impact Factor: 4.600 Quartile: 1 Citations: 9 | |
| DOI: https://doi.org/10.1016/j.oceaneng.2024.117917 | |
| Tribological Testing and Analysis of Surface-Textured Metal Surfaces | 2023 |
| Rizwan Siddiqui Mian Ashfaq Ali Waqar Arshad Muhammad Shaban Muhammad Usman Muhammad Zulfiqar | |
| Engineering Proceedings , Volume 45(1), Article Number 4 | |
| Impact Factor: N/A | |
| DOI: https://doi.org/10.3390/engproc2023045004 | |
| Experimental Investigation of Engine Valve Train Friction Considering Effects of Operating Conditions and WPC Surface Treatment | 2023 |
| Muhammad Usman Bhutta Muhammad Huzaifa Najeeb Muhammad Usman Abdullah Sami Ur Rahman Shah Muhammad Khurram Riaz Ahmed Mufti | |
| Kiyotaka Ogawa Jawad Aslam Rehan Zahid Mian Ashfaq Ali Muazzam Arshad | |
| Materials , Volume 16(9), Article Number 3431 | |

- Impact Factor:** 3.748 | **Quartile:** 1 | **Citations:** 4
DOI: <https://doi.org/10.3390/ma16093431>
- Friction and Wear Performance Evaluation of Bio-Lubricants and DLC Coatings on Cam/Tappet Interface of Internal Combustion Engines** 2021
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
Materials , Volume 14(23), Article Number 7206
Impact Factor: 3.623 | **Quartile:** 1 | **Citations:** 7
DOI: <https://doi.org/10.3390/ma14237206>
- 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](https://doi.org/10.1016/j.triboint.2019.06.022)
- Fuzzy Logic-Based Direct Load Control Scheme for Air Conditioning Load to Reduce Energy Consumption** 2020
Zeeshan Ali Shah Hatem F. Sindi Mian Ashfaq Ali Azhar Ul Haq
IEEE Access , Volume 8, Pages 117413-117427
Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 37
DOI: [10.1109/ACCESS.2020.3005054](https://doi.org/10.1109/ACCESS.2020.3005054)
- Numerical simulation of flow with large eddy simulation at Re = 3900 A study on the accuracy of statistical quantities** 2019
Niaz B. Khan Zainah B. Ibrahim Mian Ashfaq Ali Mohammed Jameel Muhammad Ijaz Khan Ahad Javanmardi D.O. Oyejobi
International Journal of Numerical Methods for Heat & Fluid Flow, -
Impact Factor: 2.871 | **Quartile:** 1 | **Citations:** 12
DOI: [10.1108/HFF-11-2018-0619](https://doi.org/10.1108/HFF-11-2018-0619)
- 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>
- Collision Avoidance from Multiple Passive Agents with Partially Predictable Behavior** 2017
Khalil Muhammad Zuhaib Abdul Manan Khan Junaid Iqbal Dr. Mian Ashfaq Ali Muhammad Usman Ahmad Ali Sheraz Yaqub Ji Yeong Lee Changsoo Han
Applied Sciences , NULL
Impact Factor: 1.689 | **Quartile:** 3 | **Citations:** 7
DOI: [10.3390/app7090903](https://doi.org/10.3390/app7090903)
- Adaptive Global Fast Sliding Mode Control for Steer-by-Wire System Road Vehicles** 2017
Junaid Iqbal Khalil Muhammad Zuhaib Changsoo Han Abdul Manan Khan Mian Ashfaq Ali
Applied Sciences-Basel , NULL
Impact Factor: 1.689 | **Quartile:** 3 | **Citations:** 27
DOI: [10.3390/app7070738](https://doi.org/10.3390/app7070738)
- Lateral acceleration potential field function control for rollover safety of multi-wheel military vehicle with in-wheel-motors** 2017
Mian Ashfaq Ali Changjun Kim Sangho Kim Abdul Manan Khan Junaid Iqbal Mohammad Zuhaib Khalil Donghwan Lim Changsoo Han
International Journal of Control Automation and Systems, NULL
Impact Factor: 2.173 | **Quartile:** 2 | **Citations:** 14
DOI: [10.1007/s12555-014-0573-7](https://doi.org/10.1007/s12555-014-0573-7)
- Passivity based adaptive control for upper extremity assist exoskeleton** 2016
Mian Ashfaq Ali Abdul Manan Khan Deok Won Yun Khalil Muhammad Zuhaib Chao Yuan Junaid Iqbal Jungsoo Han Kyoosik Shin Chang Soo Han
International Journal of Control Automation and Systems, Volume 14(1), Pages 291-300
Impact Factor: 1.687 | **Quartile:** 3 | **Citations:** 46
DOI: [http://dx.doi.org/10.1007/s12555-014-0250-x](https://doi.org/10.1007/s12555-014-0250-x)

2015

International Journal of Automotive Technology, Volume 16(6), Pages 939-946

Impact Factor: 0.876 | Quartile: 3 | Citations: 19

DOI: DOI 10.1007/s12239-015-0096-0

2015

Journal of the Korean Society for Precision Engineering, Volume 32, No.12, Pages 1065-1072

Impact Factor: 0

DOI: <https://doi.org/10.7736/KSPE.2015.32.12.1065>

2015

Journal of the Korean Society for Precision Engineering, Volume 32(10), Pages 857-863

Impact Factor: 0

DOI: <https://doi.org/10.7736/KSPE.2015.32.10.857>

2015

International Journal of Control Automation and Systems, Volume 13(2), Pages 434-442

Impact Factor: 1.219 | Quartile: 3 | Citations: 20

DOI: DOI 10.1007/s12555-014-0039-y

Conference Proceedings

2025

50th Leeds Lyon Symposium on Tribology, res.country(231,)

Citations: N/A

DOI: Nil

2024

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res.country(177,)
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Citations: N/A

DOI: <https://doi.org/10.1051/matecconf/202439801002>

2023

Leeds-Lyon Symposium on Tribology, res.country(231,)

Citations: N/A

DOI: Available after Publishing of Article

Intellectual Property

Copyrights

Patents

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

2013

Industrial Designs

Trademarks