## Sami Ur Rahman Shah

### **Assistant Professor**

School of Mechanical & Manufacturing Engineering

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Contact:



2004

### **About**

Dr. Sami Ur Rahman Shah is working as Assistant Professor in the School of Mechanical & Manufacturing Engineering. Dr. Sami Ur Rahman Shah has a PhD in Fluid Dynamics And Transfers. Dr. Sami Ur Rahman Shah has published 11 research articles & conference papers having a citation count of 88, carried out 0 projects and filed 0 intellectual property.

## **Qualifications**

**UET Taxila, Pakistan** 

Gold Medal for overall first position BSc Mehanical Engineering

PhD in Fluid Dynamics And Transfers  Ecole Centrale de Nantes , France	2006 - 2011
MS	2004 - 2006
Ecole Centrale de Nantes , France	
BE	2000 - 2004
UET Taxila , Pakistan	
Experience	
Assistant Professor	2022- Present
School of Mechanical & Manufacturing Engineering	
Assistant Professor	2013 - 2022
School of Mechanical & Manufacturing Engineering	
Assistant Professor	2013 - 2013
School of Mechanical & Manufacturing Engineering	
Assistant Professor	2012 - 2013
School of Mechanical & Manufacturing Engineering	
Awards	

## Exploring the Efficacy of Port Water Injection on Air-Fuel Ratios and NOx Emissions in Diesel Engines:

**An Experimental Study** 

Waqas Khalid Asad Asghar Janjua Sami Ur Rehman Shah Xavier Tauzia

Engineering Proceedings, Volume 75(1), Article Number 38

Impact Factor: N/A

DOI: https://doi.org/10.3390/engproc2024075038

### Experimental Investigation of Indirect Aqueous Inoculated Diesel Engine Performance in Urban-Area

2024

#### Driving for Mechanical Performance, Fuel Consumption and NOx Emissions

Wagas Khalid Sami Ur Rehman Shah Emad Ud Din Muhammad Usman Bhutta Majid Ali Xavier Tauzia Asad Asghar Janjua

Emission Control Science and Technology, Pages 1-10

Impact Factor: 1.300 | Quartile: 3

DOI: https://doi.org/10.1007/s40825-024-00250-7

# 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

## Simplistic Comparative Analytical Methodology for Accuracy Determination of In-Cylinder Convective

2023

# Heat Transfer Coefficient Models of Diesel Engine Operating with Water Injection using Experimental Pressure Signals

Asad Asghar Janjua Sami Ur Rahman Shah Emad Ud Din Jawad Aslam Muhammad Zeeshan Ali Khan Xavier Tauzia

Arabian Journal for Science and Engineering, Pages 1-14

Impact Factor: 2.807 | Quartile: 2 | Citations: 2 DOI: https://doi.org/10.1007/s13369-023-07627-w

#### 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

## Effect of vortices on power output of vertical axis wind turbine (VAWT)

2020

Ammar Naseem Emad Uddin Zaib Ali Jawad Aslam Sami Ur Rahman Shah Muhammad Sajid Syed Ali Abbas Zaidi Adeel Javed Muhammad Yamin Younis Sustainable Energy Technologies and Assessments, Volume 37, Article Number 100586

Impact Factor: 5.353 | Quartile: 2 | Citations: 32 DOI: https://doi.org/10.1016/j.seta.2019.100586

# Experimental and numerical investigation of the energy harvesting flexible flag in the wake of a bluff body

2018

Usman Latif Chaudary Abdullah Emad Uddin M. Yamin Younis Sami Ur Rahman Shah Aamir Mubasha Muhamad Sajid Wind and Structures, Volume: 26, Issue: 05, Pages.279-292

Impact Factor: 1.256 | Quartile: 3 | Citations: 15 DOI: https://doi.org/10.12989/was.2018.26.5.279

### New Phenomenological Six-Zone Combustion Model for Direct-Injection Diesel Engines

2009

Alain Maiboom Xavier Tauzia Samiur Rahman Shah Jean-Francois Hetet

Energy & Fuels, Volume 23, Issue 1-2, Pages 690-703

Impact Factor: 2.319 | Quartile: 1 | Citations: 24

**DOI:** 10.1021/ef800735d

Energy & Fuels, Volume 23, Issue 1-2, Pages 690-703

2024

## **Conference Proceedings**

## Exploring the Efficacy of Port Water Injection on Air-Fuel Ratios and NOx emissions in Diesel Engine:

2024

An experimental study

Asad Asghar Janjua Waqas Khalid Sami Ur Rehman Shah Xavier Tauzia

International Conference on Advances in Mechanical Engineering, res.country(177,)

Citations: N/A

DOI: https://icame.cust.edu.pk/

### **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