Absaar Ul Jabbar

Assistant Professor

School of Interdisciplinary Engineering & Sciences

Email: absaar@sines.nust.edu.pk

Contact: 0518741367

LinkedIn: https://de.linkedin.com/in/absaar-ul-jabbar-22bb02a



About

Dr. Absaar UI Jabbar is working as Assistant Professor in the School of Interdisciplinary Engineering & Sciences. Dr. Absaar UI Jabbar has a PhD in Computational Fluid Dynamics. Dr. Absaar UI Jabbar has published 11 research articles & conference papers having a citation count of 55, carried out 5 projects and filed 0 intellectual property.

Qualifications

PhD in Computational Fluid Dynamics Technical University of Dortmund , Germany	2011 - 2018	
MSc in Computer Aided Engineering Design University of Strathclyde , United Kingdom	2006 - 2007	
BE in Mechanical Engineering UET Lahore , Pakistan	1999 - 2002	
Experience		
Assistant Professor	2022- Present	
School of Interdisciplinary Engineering & Sciences		
Assistant Professor	2019 - 2022	
Research Centre for Modelling & Simulation		
Assistant Professor	2011 - 2018	
Research Centre for Modelling & Simulation		
Assistant Professor	2008 - 2011	
Research Centre for Modelling & Simulation		
Research Associate	2011 - 2018	
Technical University Dortmund, Germany, Vogelpothsweg 87, 44227 Dortmund, Germany		
Assistant Professor	2008 - 2008	
University of Engineering and Technology, Lahore , UET, GT Road, Lahore		
Mechanical Engineer	2004 - 2005	
Packages Limited , Shahrah-e-Roomi P.O. Amer-sidhu, Lahore-54760		
Mechanical Engineer	2003 - 2004	
NESPAK , 1-C, Model Town Extension Block N Model Town, Lahore, Punjab 54000		

Research Projects

National Projects	
GenAl empowered smart agriculture for enhanced productivity in Pakistan	2024
Funding Agency: National University of Sciences and Technology	
Amount: PKR 1,000,000.00	
Status: Approved_inprocess	
NUST Digital Twin through Advanced Modeling & Simulation	2024
Funding Agency: NUST	
Amount: PKR 50,000,000.00	
Status: Approved_inprocess	
Machine learning based CFD for aerodynamic applications	2023
Funding Agency: NESCOM	
Amount: PKR 100,000.00	
Status: Approved_inprocess	
Indoor Thermal Comfort, Air Quality and Energy Management of Selected Hospitals in Islamabad	2022
Capital Territory	
Funding Agency: NUST	
Amount: PKR 940,000.00	
Status: Approved_inprocess	
Integrated Modeling of the Cure Process and the Damage Behavior of CFRP Composites	2021
Funding Agency: BRAIA, China	

International Projects

Amount: PKR 1,230,000.00 Status: Completed

Research Articles

DOI: https://doi.org/10.3390/ma14030521

Finite element modeling of piezoresistivity in graphene coated glass fiber reinforced polymer 2025 composites Shahid Ahmad Absaar Ul Jabbar Yumna Qureshi Israr Ud Din Computational Materials Science, Volume 258, Article Number 113976 Impact Factor: 3.300 | Quartile: 2 DOI: https://doi.org/10.1016/j.commatsci.2025.113976 A comprehensive simulation study of integrated gasification, enrichment, and separation processes for 2025 biohydrogen production from sugarcane bagasse Abeer Fawad Muhammad Abdul Qyyum Absaar Ul Jabbar International Journal of Hydrogen Energy, Volume 137, Pages 905-916 Impact Factor: 8.1 | Quartile: 1 | Citations: 2 DOI: https://doi.org/10.1016/j.ijhydene.2024.05.332 2024 IGWO based robust nonlinear control design for androgen suppression therapy in prostate tumor patients Atif Rehman Iftikhar Ahmad Absaar III Jabbar Biomedical Signal Processing and Control, Volume 97, Article Number 106729 Impact Factor: 4.900 | Quartile: 1 | Citations: 8 DOI: https://doi.org/10.1016/j.bspc.2024.106729 2023 Barrier function based adaptive sliding mode controller for the hybrid energy storage system of plugin hybrid electric vehicles Mubariz Ahmed Usman Masood Muhammad Kashif Azeem Iftikhar Ahmad Absaar Ul Jabbar Journal of Energy Storage, Volume 72, Part B, Article Number 108051 Impact Factor: 9.4 | Quartile: 1 | Citations: 4 DOI: 10.1016/j.est.2023.108051 Robust adaptive nonlinear control of plugin hybrid electric vehicles for vehicle to grid and grid to 2023 vehicle power flow with hybrid energy storage system Usman Masood Muhammad Kashif Azeem Iftikhar Ahmad Absaar Ul Jabbar ISA Transactions, Volume 139, Pages 406-424 Impact Factor: 5.911 | Quartile: 1 | Citations: 19 DOI: https://doi.org/10.1016/j.isatra.2023.03.035 Performance Evaluation of a Multi-Stage Gravitational Water Vortex Turbine with optimum number of 2022 Blades Aamer Sharif Javed Ahmed Khan Tipu Muhammad Arif Muhammad Salman Abbasi Absaar Ul Jabbar Adnan Aslam Noon Muftooh Ur Rehman Siddiqi Journal of Mechanical Engineering Research and Developments, Volume 45, No. 3, Pages 35-43 Impact Factor: N/A DOI: https://jmerd.net/Paper/Vol.45,No.3(2022)/35-43.pdf Performance Investigation of a Single-Stage Savanious Horizontal Water Turbine with Optimum 2022 **Number of Blades** Irfan Ullah Muftooh Ur Rehman Siddigi Muhammad Tahir Aamer Sharif Adnan Aslam Noon Javed Ahmed Khan Tipu Muhammad Arif Absaar Ul Jabbar Shahana Mujeeb Siddiqi Naveed Ullah Tufail Habib Journal of Mechanical Engineering Research and Developments, Volume 45, No. 2, Pages 29-42 Impact Factor: N/A DOI: https://jmerd.net/Paper/Vol.45,No.2(2022)/29-42.pdf Performance Enhancement of Centrifugal Pump through Cavitation Reduction using Optimization 2021 **Techniques** Adnan Aslam Noon Muhammad Arif Javed Ahmed Khan Tipu Absaar Ul Jabbar Muftooh Ur Rehman Siddiqi Aamer Sharif International Journal of Thermofluid Science and Technology, Volume 8, Issue 4, Article Number 080404 Impact Factor: N/A DOI: 10.36963/IJTST.2021080404 Strive to Reduce Slurry Erosion and Cavitation in Pumps through Flow Modifications, Design 2021 Optimization and Some Other Techniques: Long Term Impact on Process Industry Adnan Aslam Noon Absaar Ul Jabbar Hasan Koten Man-Hoe Kim Hafiz Waqar Ahmed Umair Mueed Ahmad Adnan Shoukat Bilal Anwar Materials, Volume 14, Issue 3, Article Number 521 Impact Factor: 3.748 | Quartile: 1 | Citations: 22

Conference Proceedings

Impact Factor: 4.008

Umerical Investigation of Sugarcane Bagasse as Potential Feedstock in Pakistan Forbiohydrogen Production through Gasification Abeer Fawad Muhammad Abdul Qyyum Absaar Ul Jabbar 13th International Conference on Hydrogen Production, res.country(177,) Citations: N/A DOI: Nil Comparative analysis of thermal comfort surveys with CFD simulations Hassan Safdar Malik Waqas Khalid Absaar Ul Jabbar Adeel Waqas Ahmad Adnan Munir Jawad Aslam Hafiz Ali Haider Sehole 11th Masters Conference: People and Buildings, res.country(231,) Citations: N/A	202
Abeer Fawad Muhammad Abdul Qyyum Absaar Ul Jabbar 13th International Conference on Hydrogen Production, res.country(177,) Citations: N/A DOI: Nil Comparative analysis of thermal comfort surveys with CFD simulations Hassan Safdar Malik Waqas Khalid Absaar Ul Jabbar Adeel Waqas Ahmad Adnan Munir Jawad Aslam Hafiz Ali Haider Sehole 11th Masters Conference: People and Buildings , res.country(231,) Citations: N/A	202
13th International Conference on Hydrogen Production, res.country(177,) Citations: N/A DOI: Nil Comparative analysis of thermal comfort surveys with CFD simulations Hassan Safdar Malik Waqas Khalid Absaar UI Jabbar Adeel Waqas Ahmad Adnan Munir Jawad Aslam Hafiz Ali Haider Sehole 11th Masters Conference: People and Buildings, res.country(231,) Citations: N/A	202
Citations: N/A DOI: Nil Comparative analysis of thermal comfort surveys with CFD simulations Hassan Safdar Malik Waqas Khalid Absaar UI Jabbar Adeel Waqas Ahmad Adnan Munir Jawad Aslam Hafiz Ali Haider Sehole 11th Masters Conference: People and Buildings , res.country(231,) Citations: N/A	202
DOI: Nil Comparative analysis of thermal comfort surveys with CFD simulations Hassan Safdar Malik Waqas Khalid Absaar Ul Jabbar Adeel Waqas Ahmad Adnan Munir Jawad Aslam Hafiz Ali Haider Sehole 11th Masters Conference: People and Buildings, res.country(231,) Citations: N/A	202
Hassan Safdar Malik Waqas Khalid Absaar Ul Jabbar Adeel Waqas Ahmad Adnan Munir Jawad Aslam Hafiz Ali Haider Sehole 11th Masters Conference: People and Buildings, res.country(231,) Citations: N/A	202
Hassan Safdar Malik Waqas Khalid Absaar Ul Jabbar Adeel Waqas Ahmad Adnan Munir Jawad Aslam Hafiz Ali Haider Sehole 11th Masters Conference: People and Buildings, res.country(231,) Citations: N/A	
11th Masters Conference: People and Buildings , res.country(231,) Citations: N/A	
Citations: N/A	
DOI: 10.5258/SOTON/P1086	
Editorial Activities	
International Journal of Hydrogen Energy	202
Reviewed Papers for Journals	
Impact Factor: 8.1	
nternational Journal of Hydrogen Energy	202
Reviewed Papers for Journals	
Impact Factor: 8.1	
Biomedical Signal Processing and Control	202
Reviewed Papers for Journals	
Impact Factor: 4.9	
SoftwareX	202
Reviewed Papers for Journals	
Impact Factor: 3.4	
SA Transactions	
Reviewed Papers for Journals	202
Impact Factor: 5.911	202
	201
Reviewed Papers for Journals	202