# **Tariq Talha**

### Associate Professor

College of Electrical & Mechanical Engineering

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### **About**

Dr. Tariq Talha is working as Associate Professor in the College of Electrical & Mechanical Engineering. Dr. Tariq Talha has a PhD in Computational Fluid Dynamics. Dr. Tariq Talha has published 22 research articles & conference papers having a citation count of 295, carried out 0 projects and filed 0 intellectual property.

#### Qualifications

PhD in Computational Fluid Dynamics	2006 - 2012
University of Warwick , England	
MS in Mechanical Engineering NUST, Islamabad , Pakistan	2004 - 2006
BS in Mechanical Engineering NUST, Islamabad , Pakistan	1998 - 2001

## **Experience**

Associate Professor College of Electrical & Mechanical Engineering	2025- Present
Assistant Professor College of Electrical & Mechanical Engineering	2017 - 2017
Assistant Professor  College of Electrical & Mechanical Engineering	2012 - 2017

### **Awards**

HEC Indigenous PhD Schol	2004
MS Leading to PhD scholarship awarded by HEC under Indigenous PhD Scholarship Program,	

## **Professional Memberships**

#### PEC

### **Research Articles**

Experimental study of unglazed transpired solar collectors integrated with buildings in humid sub-	2025
tropics	
Tariq Talha Abdur Rehman Mazhar Usama Bin Perwez Shuli Liu Muhammad Talha Muhammad Moiz Ahtasham Afzal	
Energy and Buildings, Volume 339, Article Number:115767	

Impact Factor: 6.6 | Quartile: 1
DOI: 10.1016/j.enbuild.2025.115767

### A novel numerical investigation of a solar PCM heat exchanger for indoor temperature stabilization

Aurang Zaib Abdur Rehman Mazhar Tariq Talha Yongliang Shen Shuli Liu Journal of Energy Storage, Volume 100, Part A, Article Number 113560 Impact Factor: 8.900 | Quartile: 1 | Citations: 3

DOI: 10.1016/j.est.2024.113560

#### Effect of the shape of flapping airfoils on aerodynamic forces

2024

2024

Fahad Butt Tariq Talha Muhammad Rehan Khan Abdur Rehman Mazhar Mahad Butt Jana Petru Asiful H. Seikh Heliyon, Volume 10, Issue 8, Article Number e29561

Impact Factor: 4.000   Quartile: 2  DOI: https://doi.org/10.1016/j.heliyon.2024.e29561	
Experimental and numerical investigation of hydro-abrasive erosion in the Pelton turbine buckets for multiphase flow	2024
Muhammad Rehan Khan Sati Ullah Faez Qahtani William Pao Tariq Talha Renewable Energy , Volume 222, Article Number 119829	
Impact Factor: 8.7   Quartile: 1   Citations: 16  DOI: https://doi.org/10.1016/j.renene.2023.119829	
Experimental investigation of a solar PCM heat exchanger for indoor temperature stabilization  Aurang Zaib Abdur Rehman Mazhar Tariq Talha Muhammad Inshal  Energy and Buildings, Volume 297, Article Number 113478  Impact Factor: 6.7   Quartile: 1   Citations: 6	2023
<b>DOI:</b> 10.1016/j.enbuild.2023.113478	
Heat Transfer Augmentation Using Duplex and Triplex Tube Phase Change Material (PCM) Heat Exchanger Configurations  Average Zeib Abdur Rehmen Merher Shebid Ariz Torig Telba Department	2023
Aurang Zaib Abdur Rehman Mazhar Shahid Aziz Tariq Talha Dong-Won Jung Energies, Volume 16 (10), Article Number 4037 Impact Factor: 3.252   Quartile: 3   Citations: 10 DOI: 10.3390/en16104037	
A Comprehensive Review on Investigation of Sediment Erosion of Pelton Wheel Turbine  Sati Ullah Muhammad Rehan Khan Tariq Talha Muhammad Nasir Muhammad Ali Khan Aurang Zaib  Pakistan Journal of Engineering and Technology, Volume 5, Number 2, Pages 152-162  Impact Factor: 0  DOI: https://doi.org/10.51846/vol5iss2pp152-162	2022
A Parametric Study of the Effects of Critical Design Parameters on the Performance of Nanoscale Silicon Devices  Tariq Talha Faraz Kaiser Malik Faisal Ahmed  Nanomaterials, Volume 10, Issue 10, Article Number 1987  Impact Factor: 5.076   Quartile: 2   Citations: 1  DOI: 10.3390/nano10101987	2020
Modelling and Optimization of Small Scale Solar Organic Rankine Cycle for Islamabad, Pakistan  Marva Hadia Tariq Talha  International Journal of Engineering Works, Volume 6, Issue 10, Pages 354-359  Impact Factor: 0  DOI: 10.34259/ijew.19.610354359	2019
Numerical Investigation of the Effect of Leading-Edge Tubercles on Propeller Performance  Fahad Rafi Butt Taria Talha  Journal of Aircraft, Volume: 56, Issue: 3, Pages: 1014-1028  Impact Factor: 1.110   Quartile: 2   Citations: 41  DOI: 10.2514/1.C034845	2019
Configuration based modeling and performance analysis of single effect solar absorption cooling system in TRNSYS  Muhammad Shoaib Ahmed Khan Muhammad Wajahat Khan Abdul Waheed Badar Fahad Sarfraz Butt Tariq Talha  Energy Conversion and Management, Volume 157, Pages 351-363	2018
Impact Factor: 7.181   Quartile: 1   Citations: 85  DOI: 10.1016/j.enconman.2017.12.024	
Large-eddy simulations of temporally accelerating turbulent channel flow  Dr. Yongmann M Chung Tariq Talha  Journal of Turbulence, Volume: 16, Issue: 11, Pages: 1091-1113  Impact Factor: 1.472   Quartile: 2   Citations: 6	2015
DOI: 10.1080/14685248.2015.1052464  Effectiveness of active flow control for turbulent skin friction drag reduction  Dr. Yongmann M. Chung Tariq Talha  Physics of Fluid Volume: 23 Issue: 2 Article Number: 025102	2011

Impact Factor:  $1.926 \mid$  Quartile:  $1 \mid$  Citations: 82

### **Conference Proceedings**

Effect of displacing the separation plate on the heat exchange effectiveness of unglazed double skin 2024 transpired solar collector Muhammad Talha Tariq Talha Abdur Rehman Mazhar Ahtasham Afzal Muhammad Moiz 2nd International Conference on Modern Technologies in Mechanical & Materials Engineering (MTME-2024), res.country(177,) Citations: N/A DOI: 10.1051/matecconf/202439801026 2023 Numerical Study of Gas-Sand Two-Phase Flow Erosion in a Standard 90° Elbow † Nauman Khan Muhammad Rehan Khan Sati Ullah Tariq Talha Muhammad Ali Khan Zubair Sajid Third International Conference on Advances in Mechanical Engineering 2023 (ICAME-23), Islamabad, Pakistan., res.country(177,) Citations: N/A DOI: 10.3390/engproc2023045028 Optimization of the Geometry and the Spanwise Positioning of the Leading-Edge Tubercles on a Helical 2019 Vertical-Axis Marine Turbine Blade Fahad Rafi Butt Tariq Talha World Congress on Engineering 2019 WCE 2019, res.country(231,) Citations: N/A DOI: http://www.iaeng.org/publication/WCE2019/WCE2019 pp365-374.pdf A Parametric Study of the Effect of the Leading-Edge Tubercles Geometry on the Performance of 2018 **Aeronautic Propeller using Computational Fluid Dynamics** Fahad Rafi Butt Dr. Tariq Talha World Congress of Engineering 2018, res.country(231,) Citations: N/A DOI: http://www.iaeng.org/publication/WCE2018/WCE2018\_pp586-595.pdf Turbulent structures in unsteady wall-bounded flow subject to temporal acceleration 2015 Zhixin Wang Tariq Talha Yongmann M. Chung 15th European Turbulence Conference 2015, res.country(165,) Citations: N/A DOI: http://etc15.fyper.com/proceedings/proceedings/documents/335.pdf DIRECT NUMERICAL SIMULATION OF A TURBULENT PIPE FLOW WITH TEMPORAL ACCELERATION 2015 Yongmann M. Chung Zhixin Wang Tariq Talha Ninth International Symposium on turbulence and Shear Flow Phenomena (TSFP-9), res.country(13,) Citations: N/A DOI: http://www.tsfp-conference.org/proceedings/2015/v3/8A-3.pdf DNS OF TURBULENT FLOW WITH TEMPORAL ACCELERATION 2013 Yongmann M. Chung Tariq Talha European Turbulence Conference 14 (ETC14), res.country(75,) Citations: N/A

DOI: http://etc14.ens-lyon.fr/openconf/modules/request.php?module=oc proceedings&action=view.php&a=Accept&id=549

# **Editorial Activities**

Thermal science and engineering progress	2025
Reviewed Papers for Journals	
Impact Factor: 5.4	
Journal of Saudi Chemical Society	2025
Reviewed Papers for Journals	
Impact Factor: 5.8	
International Communications in Heat and Mass Transfer	2025
Reviewed Papers for Journals	
Impact Factor: 6.4	
Johnson Matthey technology review	2025
Reviewed Papers for Journals	
Impact Factor: 1.53	
Heat Transfer Research	2025
Reviewed Papers for Journals	
Impact Factor: 2.443	
Heat Transfer Research	2023
Reviewed Papers for Journals	
Impact Factor: 2.443	