

Zafar Iqbal

Assistant Professor

NUST Institute of Civil Engineering

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About

Dr. Zafar Iqbal is working as Assistant Professor in the NUST Institute of Civil Engineering. Dr. Zafar Iqbal has a PhD in Hydrology and Water Resources. Dr. Zafar Iqbal has published 20 research articles & conference papers having a citation count of 678, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Hydrology and Water Resources	2019 - 2022
Univeristi Tecknologi Malaysia , Malaysia	
MPhil in Hydrology and Water Resources	2017 - 2019
Univeristi Tecknologi Malaysia , Malaysia	

Experience

Assistant Professor	2024- Present
NUST Institute of Civil Engineering	
Assistant Professor	2023 - 2024
NUST Institute of Civil Engineering	
Graduate Research Assistant	2019 - 2022
University Technology Malaysia , UTM, Skudai, Malaysia	

Awards

Best Postgraduate Student Award
Best Postgraduate Student Award 2019 (MPhil)
Best Postgraduate Student Award
Best Postgraduate Student Award 2022 (PhD)
HEC-HRDI Scholarship
HEC-HRDI Scholarship for MS-PhD.

Research Articles

Mapping water dynamics in Borneo’s biodiversity hotspot: a satellite-based analysis	2025
Zafar Iqbal Zeeshan Tahir Virk Mohammed Magdy Hamed Ali Torabi Haghighi Shamsuddin Shahid Zaher Mundher Yaseen	
Theoretical and Applied Climatology , Volume:156, Issue:7, Article Number 413	
Impact Factor: 2.700 Quartile: 3	
DOI: https://doi.org/10.1007/s00704-025-05631-8	
Hydro-Climatic variability in the Potohar Plateau of Indus River Basin under CMIP6 climate projections	2024
Ahsan Ullah Khan SHAKIL AHMAD Khalil Ahmad Muhammad Azmat Zakir Hussain Dahri Muhammad Wasif Khan Zafar Iqbal	
Theoretical and Applied Climatology , Volume 156, Article Number 20	
Impact Factor: 2.800 Quartile: 3 Citations: 2	
DOI: https://doi.org/10.1007/s00704-024-05274-1	
Monitoring spatiotemporal changes in urban flood vulnerability of Peninsular Malaysia from satellite nighttime light data	2024
Ghaith Falah Ziarh Eun-Sung Chung Ashraf Dewan Md Asaduzzaman Mohammed Magdy Hamed Zafar Iqbal Shamsuddin Shahid	
Journal of Hydro-environment Research , Volume 55, Pages 20-29	
Impact Factor: 2.400 Quartile: 2	
DOI: https://doi.org/10.1016/j.jher.2024.05.003	

Characterization of the future northeast monsoon rainfall based on the clustered climate zone under CMIP6 in Peninsular Malaysia <i>Zulfaqar Sa'adi Nor Eliza Alias Zulkifli Yusop Mohammed Magdy Hamed Prabhakar Shukla Mohamad Rajab Houmsi Nur Athirah Mohamad Mohammed Sanusi Shiru Nurzalikha Sa'adi Mohd Khairul Idlan Muhammad Zafar Iqbal Umer Jeelanie Banday Atmospheric Research</i> , Volume:304, Article Number:107407 Impact Factor: 5.5 Quartile: 1 Citations: 5 DOI: 10.1016/j.atmosres.2024.107407	2024
Application of relative importance metrics for CMIP6 models selection in projecting basin-scale rainfall over Johor River basin, Malaysia <i>Zulfaqar Sa'adi Nor Eliza Alias Zulkifli Yusop Zafar Iqbal Mohamad Rajab Houms Lama Nasrallah Houmsi Muhammad Wafiy Adli Ramli Mohd Khairul Idlan Muhammad Science of The Total Environment</i> , Volume 912, Article Number 169187 Impact Factor: 9.8 Quartile: 1 Citations: 17 DOI: https://doi.org/10.1016/j.scitotenv.2023.169187	2024
Effect of Stress Ratio K due to Varying Overburden Topography on Crack Intensity of Tunnel Liner <i>Amber Islam Rini Asnida Abdullah Izni Syahrizal Ibrahim Goh Thian Lai Muhammad Hamid Chaudry Muhammad Junaid Zafar Iqbal Norhadziana Jamal Azizul Faiz Abd Aziz Adam Salim Journal of Performance of Constructed Facilities</i> , Volume 37, Issue 04, Article Number 4281 Impact Factor: 2.317 Quartile: 3 Citations: 7 DOI: 10.1061/JPCFEV.CFENG-4281	2023
Diminishing evapotranspiration paradox and its cause in the Middle East and North Africa <i>Zafar Iqbal Mohammed Magdy Hamed Mohamed Salem Nashwan Ahmed Farouk Kineber Shamsuddin Shahid Atmospheric Research</i> , Volume 289, Article Number 106760 Impact Factor: 5.965 Quartile: 1 Citations: 23 DOI: https://doi.org/10.1016/j.atmosres.2023.106760	2023
Long-term trend analysis of extreme climate in Sarawak tropical peatland under the influence of climate change <i>Zulfaqar Sa'adi Zaher Mundher Yaseen Aitazaz Ahsan Farooque Nur Athirah Mohamad Mohd Khairul Idlan Muhammad Zafar Iqbal Weather and Climate Extremes</i> , Volume 40, Article Number 100554 Impact Factor: 7.761 Quartile: 1 Citations: 23 DOI: https://doi.org/10.1016/j.wace.2023.100554	2023
Spatiotemporal changes in Hourly Wet Bulb Globe temperature in Peninsular Malaysia <i>Mohamad Rajab Houmsi Zuhilmi Ismail Ilya Khairanis Othman Daeng Siti Maimunah Ishak Mohammed Magdy Hamed Zafar Iqbal Shamsuddin Shahid Stochastic Environmental Research and Risk Assessment</i> , Volume 37, Issue 6, Pages 2327-2347 Impact Factor: 3.821 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1007/s00477-023-02396-2	2023
Performance evaluation of CMIP6 GCMs for the projections of precipitation extremes in Pakistan <i>Zulfiqar Ali Mohammad Magdy Hamed Mohd Khairul Idlan Muhammad Zafar Iqbal Shamsuddin Shahid Climate Dynamics</i> , Pages 1-16 Impact Factor: 4.901 Quartile: 2 Citations: 29 DOI: https://doi.org/10.1007/s00382-023-06831-6	2023
Distributed Hydrological Model Based on Machine Learning Algorithm: Assessment of Climate Change Impact on Floods <i>Zafar Iqbal Shamsuddin Shahid Tarmizi Ismail Zulfaqar Sa'adi Aitazaz Farooque Zaher Mundher Yaseen Sustainability</i> , Volume 14, Issue 11, Article Number 6620 Impact Factor: 3.9 Quartile: 2 Citations: 14 DOI: https://doi.org/10.3390/su14116620	2022
Bias correction method of high-resolution satellite-based precipitation product for Peninsular Malaysia <i>Zafar Iqbal Shamsuddin Shahid Kamal Ahmed Xiaojun Wang Tarmizi Ismail Hamza Farooq Gabriel Theoretical and Applied Climatology</i> , Volume 148, Pages 1429-1446 Impact Factor: 3.179 Quartile: 2 Citations: 27 DOI: 10.1007/s00704-022-04007-6	2022
Historical trends in crop water demand over semiarid region of Syria <i>Zafar Iqbal Rajab Homsy Shamsuddin Shahid Ghaith Falah Ziarh Atif Muhammad Ali Theoretical and Applied Climatology</i> , Volume 146, Issue 1-2, Pages 555-566 Impact Factor: 3.410 Quartile: 3 Citations: 7	2021

DOI: <https://doi.org/10.1007/s00704-021-03751-5>

Evaluation of CMIP6 GCM rainfall in mainland Southeast Asia

2021

Zafar Iqbal Shamsuddin Shahid Tarmizi Ismail Ghaith Falah Ziarh Kamal Ahmed Eun-Sung Chung
Atmospheric Research , Volume 254, Article Number 105525

Impact Factor: 5.965 | **Quartile:** 1 | **Citations:** 147

DOI: <https://doi.org/10.1016/j.atmosres.2021.105525>

Quantitative assessment of precipitation changes under CMIP5 RCP scenarios over the northern sub-Himalayan region of Pakistan

2020

Zafar Iqbal Kamal Ahmed Najeebullah Khan Balach Rasheed Nadeem Nawaz Irfan Malik Mohammad Noor
Environment, Development and Sustainability , Volume 22, Issue 8, Pages 7831-7845

Impact Factor: 3.219 | **Quartile:** 2 | **Citations:** 14

DOI: <https://doi.org/10.1007/s10668-019-00548-5>

A non-local model output statistics approach for the downscaling of cmip5 gcms for the projection of rainfall in peninsular malaysia

2020

Muhammad Noor Tarmizi bin Ismail, Shahid Ullah Nadeem Nawaz Kamal Ahmed Zafar Iqbal
Journal of Water and Climate Change , Volume 11, Issue 4, Pages 944-955

Impact Factor: 1.900 | **Quartile:** 3 | **Citations:** 15

DOI: <https://doi.org/10.2166/wcc.2019.041>

Evaluation of global climate models for precipitation projection in sub-Himalaya region of Pakistan

2020

Zafar Iqbal Shamsuddin Shahid Kamal Ahmed Tarmizi Ismail Najeebullah Khan Zeeshan Tahir Virk Waqas Johar
Atmospheric Research , Volume 245, Article Number 105061

Impact Factor: 5.369 | **Quartile:** 1 | **Citations:** 52

DOI: <https://doi.org/10.1016/j.atmosres.2020.105061>

Multi-model ensemble predictions of precipitation and temperature using machine learning algorithms

2020

Kamal Ahmed D.A. Sachindra Shamsuddin Shahid Nadeem Nawaz Najeebullah Khan Zafar Iqbal
Atmospheric Research , Volume 236, Article Number 104806

Impact Factor: 4.676 | **Quartile:** 1 | **Citations:** 209

DOI: <https://doi.org/10.1016/j.atmosres.2019.104806>

Spatial distribution of the trends in precipitation and precipitation extremes in the sub-Himalayan region of Pakistan

2019

Shamsuddin Shahid Kamal Ahmed Termizi Ismail Nadeem Nawaz Zafar Iqbal
Theoretical and Applied Climatology , Volume 137, Issue 3-4, Pages 2755-2769

Impact Factor: 2.882 | **Quartile:** 2 | **Citations:** 75

DOI: <https://doi.org/10.1007/s00704-019-02773-4>

Editorial Activities

Atmospheric Research Reviewed Papers for Journals Impact Factor: 5.5	2023
PLOS One Reviewed Papers for Journals Impact Factor: 3.5	2023
AMS Tropical Meteorology and Tropical Cyclones Committee Reviewed Papers for Journals Impact Factor: N/A	2023
Atmospheric Research Reviewed Papers for Journals Impact Factor: 2	2023
PLOS ONE Reviewed Papers for Journals Impact Factor: 3.5	2023
Knowledge-Based Engineering and Sciences Reviewed Papers for Journals Impact Factor: N/A	2022
Journal of Hydro-environment Research Reviewed Papers for Journals Impact Factor: 2.8	2022
PLOS One Reviewed Papers for Journals Impact Factor: 3.5	2022
Geocarto International Reviewed Papers for Journals Impact Factor: 3.3	2022
International Journal of Climatolog Reviewed Papers for Journals Impact Factor: 3.6	2022
International Journal of Climatology Reviewed Papers for Journals Impact Factor: 3.6	2021