Muhammad Shahid

Assistant Professor

NUST Institute of Civil Engineering

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Since 2011

About

PEC

Dr. Muhammad Shahid is working as Assistant Professor in the NUST Institute of Civil Engineering. Dr. Muhammad Shahid has a PhD in Hydrology And Water Resources Management. Dr. Muhammad Shahid has published 28 research articles & conference papers having a citation count of 633, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Hydrology And Water Resources Management Tsinghua University , China	2015 - 2019
MS in Water Resource Engg & Mgmt NUST, Islamabad , Pakistan	2011 - 2014
BSc in Civil Engineering BZU, Multan , Pakistan	2007 - 2011
Experience	
Assistant Professor	2022- Present
NUST Institute of Civil Engineering	
Assistant Professor	2019 - 2022
NUST Institute of Civil Engineering	
Lecturer	2014 - 2015
Abasyn University , Islamabad	
Awards	
CSC Scholarship	2015
CSC Scholarship for PhD	
Publication Award	2014
Research Publication award as a PG student in WRE&M	
Professional Memberships	

Research Projects

National Projects

Numerical Modeling for Landslide Dam Breach Case Studies from China and Pakistan

Funding Agency: Scientific Cooperation Agreement for Visiting Scholar's Fund, China

Amount: PKR 1,959,200.00 Status: Approved_inprocess

Economic and environmental implications of Water harvesting practices under changing climate and

2021

2020

land use scenarios across Pakistan

Funding Agency: HEC Amount: PKR 20,840,000.00

Status: Completed

Numerical modeling of landslide dam breach case studies from China and Pakistan

2020

Funding Agency: State Key Laboratory of Water Resources & Hydropower Engineering Science, Wuhan University, China

Amount: PKR 1,967,120.00 Status: Approved inprocess

International Projects

Research Articles

Development of Artificial Geochemical Filter to Treat Acid Mine Drainage for Safe Disposal of Mine Water in Salt Range Portion of Indus Basin—A Lab to Pilot Scale Study

2022

Abdul Jabbar Khan Muhammad Shahid Gulraiz Akhter Yonggang Ge Khalil Ur Rahman

Sustainability, Volume 14, Issue 13, Article Number 7693

Impact Factor: 3.9 | Quartile: 2 | Citations: 3

DOI: 10.3390/su14137693

Evaluating the impact of the environment on depleting groundwater resources: a case study from a semi-arid and arid climatic region

2022

Khalil Ur Rahman Anwar Hussain Nuaman Ejaz Muhammad Shahid Zheng Dua Babak Mohammadi Pham Ngoc Hoai Quoc Bao Pham Khaled Mohamed

Khedher Duong Tran Anh

Hydrological Sciences Journal, Volume 67, Issue 5, Pages 791-805,

F. Polong Q. B. Pham D. T. Anh K. U. Rahman Muhammad Shahid R. S. Alharb

Impact Factor: 3.787 | Quartile: 1 | Citations: 5

DOI: 10.1080/02626667.2022.2044483

Evaluation and comparison of four satellite-based precipitation products over the upper Tana River Basin

2022

International Journal of Environmental Science and Technology, Pages 1-16

Impact Factor: 2.860 | Quartile: 3 | Citations: 8 DOI: https://doi.org/10.1007/s13762-022-03942-1

Plausible Precipitation Trends over the Large River Basins of Pakistan in Twenty First Century

2022

Ammara Nusrat Hamza Farooq Gabriel Umm e Habiba Habib Ur Rehman Sajjad Haider Shakil Ahmad Muhammad Shahid Saad Ahmed Jamal Jahangir Ali Atmosphere, Volume 13(2), Article Number 190

Impact Factor: 3.110 | Quartile: 3 | Citations: 4

DOI: 10.3390/atmos13020190

Quantitative assessment of regional land use and climate change impact on runoff across Gilgit watershed

2021

Muhammad Shahid Khalil Ur Rahman Sajjad Haider Hamza Farooq Gabriel Abdul Jabbar Khan Quoc Bao Pham Dr. Chaitanya Pande Nguyen Thi Thuy Linh Duong Tran Anh

Environmental Earth Sciences, Volume 80, Article Number 743

Impact Factor: 3.119 | Quartile: 2 | Citations: 60

DOI: 10.1007/s12665-021-10032-x

Investigating feasible sites for multi-purpose small dams in Swat District of Khyber Pakhtunkhwa

2021

Province, Pakistan: socioeconomic and environmental considerations

Anwar Hussain Khalil Ur Rahman Muhammad Shahid Sajjad Haider Quoc Bao Pham Nguyen Thi Thuy Linh Saad Shauket Sammen

Environment, Development and Sustainability, Pages 1-24

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

DOI: 10.1007/s10668-021-01886-z

Muhammad Shahid Khalil Ur Rahman Sajjad Haider Hamza Farooq Gabriel Abdul Jabbar Khan Quoc Bao Pham Babak Mohammadid Nguyen Thi Thuy Linh

Duong Tran Anh Hydrological Sciences Journal, Pages 1-21

Impact Factor: 3.942 | Quartile: 2 | Citations: 25

DOI: 10.1080/02626667.2021.1957476

Development of a novel Weighted Average Least Squares-based ensemble multi-satellite precipitation

2020

dataset and its comprehensive evaluation over Pakistan

Khalil Ur Rahman SonghaoShang Muhammad Shahid Yeqiang Wen Abdul Jabbar Khan

Atmospheric Research, Volume 246, Article Number 105133

Impact Factor: 5.369 | Quartile: 1 | Citations: 20 DOI: https://doi.org/10.1016/j.atmosres.2020.105133

Application of precipitation products for flood modeling of transboundary river basin: a case study of

2020

Jhelum Basin

Muhammad Umer Hamza Farooq Gabriel Sajjad Haider Ammara Nusrat Muhammad Shahid Muhammad Umer

Theoretical and Applied Climatology, Pages 1-16 Impact Factor: 3.179 | Quartile: 2 | Citations: 14

DOI: 10.1007/s00704-020-03471-2

Application of Machine Learning Techniques to Delineate Homogeneous Climate Zones in River Basins of Pakistan for Hydro-Climatic Change Impact Studies

2020

Ammara Nusrat Hamza Farooq Gabriel Sajjad Haider Shakil Ahmad Muhammad Shahid Saad Ahmed Jamal

Applied Sciences, Volume 10, Issue 19, Article Number 6878

Impact Factor: 2.679 | Quartile: 2 | Citations: 13

DOI: 10.3390/app10196878

An Integrated Geo-Physical Approach for Groundwater Investigation in Northwestern Part of Pakistan

2020

Abdul Jabbar Khan Fida Ul Mustafa Hamza Faroog Gabriel Haseeb Ullah Khan Wasi Haider Hussain Abbas Fida Ul Mustafa Hamza Faroog Gabriel Haseeb Ullah Khan Wasi Haider Hussain Abbas Muhammad Shahid

International Journal of Advance Science and Technology, Volume 29, Issue 10S, Pages 616-630

Impact Factor: -

DOI: Nil

Hydrological evaluation of merged satellite precipitation datasets for streamflow simulation using

2020

SWAT: A case study of Potohar Plateau, Pakistan

SonghaoShang KhalilUr Rahman Yeqiang Wen SonghaoShang Muhammad Shahid KhalilUr Rahman Yeqiang Wen

Journal of Hydrology, Volume 587, Article Number 125040

Impact Factor: 5.722 | Quartile: 1 | Citations: 59

DOI: 10.1016/j.jhydrol.2020.125040

2D numerical modeling of two dam-break flood model studies in an urban locality

2020

Sajjad Haider Umer Saeed Muhammad Shahid

Arabian Journal of Geosciences, Volume 13, Article Number 682

Impact Factor: 1.827 | Quartile: 3 | Citations: 6 DOI: https://doi.org/10.1007/s12517-020-05709-9

Application of Meta-Models for Accurate Calibration of Hydrological Model Parameters

2020

Ammara Nusrat Hamza Farooq Gabriel Sajjad Haider Muhammad Shahid

Journal of Critical Reviews, Volume 7, Issue 16, Pages 767-779

Impact Factor: -

DOI: 10.31838/jcr.07.16.103

Hydrological drought indexing approach in response to climate and anthropogenic activities

2020

Waseem Muhammad Muhammad Shahid Noor Muhammad Khan Chen Si Waseem Muhammad Noor Muhammad Khan Chen Si

Theoretical and Applied Climatology, Pages 1-13 Impact Factor: 3.179 | Quartile: 2 | Citations: 12

DOI: 10.1007/s00704-020-03227-y

Quantitative Contribution of Climate Change and Land Use Change to Runoff in Tarbela Catchment,

2020

Pakistan

Rana Shahram Shaukat Mudasser Muneer Khan Muhammad Shahid Muhammad Shoaib Tanveer Ahmad Khan Muhammad Asif Aslam Rana Shahram Shaukat Mudasser Muneer Khan Muhammad Shoaib Tanveer Ahmad Khan Muhammad Asif Aslam

Polish Journal of Environmental Studies, Volume 29, No. 5, Pages 3295-3304	
Impact Factor: 1.699 Quartile: 4 Citations: 9	
DOI: 10.15244/pjoes/112214	
Identifying the Annual and Seasonal Trends of Hydrological and Climatic Variables in the Indus Basin Pakistan	2020
Khalil-ur -Rahman Muhammad Shahid Khalil-ur -Rahman Asia-Pacific Journal of Atmospheric Sciences, Pages 1-16	
Impact Factor: 2.100 Quartile: 3 Citations: 34 DOI: 10.1007/s13143-020-00194-2	
Impact assessment of land use and climate changes on the variation of runoff in Margalla Hills watersheds, Pakistan	2020
Muhammad Shahid Khalil-ur-Rahman Khaled S. Balkhair Amjad Nabi Amjad Nabi	
Arabian Journal of Geosciences, Volume 13(5), Article number: 239	
Impact Factor: 8.928 Quartile: 1 Citations: 23	
DOI: 10.1007/s12517-020-5231-1	
Anthropogenic Effects of Coal Mining on Ecological Resources of the Central Indus Basin, Pakistan	2020
Abdul Jabbar Khan Gulraiz Akhter Hamza Farooq Gabriel Muhammad Shahid	
International Journal of Environmental Research and Public Health, Volume 17(4), Article Number 1255	
Impact Factor: 3.390 Quartile: 1 Citations: 34 DOI: 10.3390/ijerph17041255	
Application of a Dynamic Clustered Bayesian Model Averaging (DCBA) Algorithm for Merging	2020
Multisatellite Precipitation Products over Pakistan	
Khalil Ur Rahman Songhao Shang Muhammad Shahid Yeqiang Wen Zeeshan Khan	
Journal of Hydrometeorology, Volume:21, Issue:1, Page(s): 17-37 Impact Factor: 4.349 Quartile: 1 Citations: 33	
DOI: 10.1175/JHM-D-19-0087.1	
An Appraisal of Dynamic Bayesian Model Averaging-Based Merged Multi-Satellite Precipitation	2020
Datasets Over Complex Topography and the Diverse Climate of Pakistan	
Khalil-ur-Rahman Songhao Shang Muhammad Shahid Yeqiang Wen	
Remote Sensing, Volume 12(1), Article Number 10	
Impact Factor: 4.848 Quartile: 1 Citations: 29 DOI: 10.3390/rs12010010	
Performance Assessment of SM2RAIN-CCI and SM2RAIN-ASCAT Precipitation Products over Pakistan	2019
Khalil Ur Rahman Songhao Shang Muhammad Shahid Yeqiang Wen	
Remote Sensing, Volume: 11, Issue: 17, Article Number 2040	
Impact Factor: 4.509 Quartile: 2 Citations: 43 DOI: 10.3390/rs11172040	
Developing an Ensemble Precipitation Algorithm from Satellite Products and Its Topographical and Seasonal Evaluations Over Pakistan	2018
Khalil Ur Rahman Songhao Shang Muhammad Shahid Jiang Li	
Remote Sensing, Volume 10, Article Number 1835	
Impact Factor: 4.118 Quartile: 1 Citations: 42	
DOI: 10.3390/rs10111835	
Understanding the impacts of climate change and human activities on streamflow: a case study of the	2018
Soan River basin, Pakistan Muhammad Shahid Zhantaa Cong Danyuu Zhang	
Muhammad Shahid Zhentao Cong Danwu Zhang Theoretical and Applied Climatology, Volume 134, Pages 205-219	
Impact Factor: 2.720 Quartile: 2 Citations: 121	

2017

DOI: 10.1007/s00704-017-2269-4

Attribution of runoff change in the alpine basin: a case study of the Heihe Upstream Basin, China

Zhentao Cong Muhammad Shahid Danwu Zhang Huimin Lei Dawen Yang

Hydrological Sciences Journal, Volume 62, No. 6, Pages 1013-1028

Impact Factor: 2.061 | Quartile: 2 | Citations: 34

DOI: 10.1080/02626667.2017.1283043

Relations of Catchment Area of Simly Lake Pakistan

Muhammad Shahid Hamza Farooq Gabriel Amjad Nabi Sajjad Haider Shaukat Ali Khan Syed Muhammad Ali Shah

Life Science Journal, Volume 11, Issue 7, Pages 11-15

Impact Factor: N/A

DOI: http://www.dx.doi.org/10.7537/marslsj1107s14.02

Conference Proceedings

Analyzing The Land-Use Impact on Flood Regime in Soan Basin

2022

Usama Nazar Dr. Muhammad Shahid Dr. Hamza Farooq Gabriel

4th Conference on Sustainability in Civil Engineering (CSCE'22), res.country(177,)

Citations: N/A DOI: Nil

A meta-model assisted framework of optimization of the Hydrological model parameters for accurate calibration

2020

2020

Ammara Nusrat Hamza Farooq Gabriel Sajjad Haider Muhammad Shahid Ammara Nusrat Hamza Farooq Gabriel Sajjad Haider Muhammad Shahid Ammara Nusrat Hamza Farooq Gabriel Sajjad Haider Muhammad Shahid

22nd EGU General Assembly 2020, res.country(12,)

Citations: N/A

DOI: 10.5194/egusphere-egu2020-21083

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Reviewed Papers for Journals

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Editorial Activities	
Reviewed Papers for Journals Impact Factor: 4.223	2022
Reviewed Papers for Journals Impact Factor: 6.789	2022
Reviewed Papers for Journals Impact Factor: 1.2	2022
Reviewed Papers for Journals Impact Factor: 4.02	2022
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Reviewed Papers for Journals Impact Factor: 0.9	2020
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Impact Factor: 0.9	
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Reviewed Papers for Journals Impact Factor: 0.9	2020
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