

# SHAKIL AHMAD

Associate Professor

NUST Institute of Civil Engineering

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**Contact:** 0518741301

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## About

Dr. SHAKIL AHMAD is working as Associate Professor in the NUST Institute of Civil Engineering. Dr. SHAKIL AHMAD has a PhD in Climate System and Water Cycle Variability. Dr. SHAKIL AHMAD has published 49 research articles & conference papers having a citation count of 576, carried out 7 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Climate System and Water Cycle Variability</b> The University of Tokyo , Japan	2007 - 2012
<b>M.E in Water Resources Engineering</b> UET Lahore , Pakistan	1998 - 2001
<b>BE in Irrigation Engineering</b> University of Agriculture Faisalabad , Pakistan	1993 - 1997

## Experience

<b>Associate Professor</b> NUST Institute of Civil Engineering	2021- Present
<b>Assistant Professor</b> NUST Institute of Civil Engineering	2017 - 2021
<b>Assistant Professor</b> (Do Not Use-Duplicate)NUST Institute of Civil Engineering	2013 - 2017
<b>Assistant Professor</b> (Do Not Use-Duplicate)NUST Institute of Civil Engineering	2012 - 2013
<b>Lecturer</b> (Do Not Use-Duplicate)NUST Institute of Civil Engineering	2012 - 2012
<b>Lecturer</b> Military College of Engineering	2006 - 2005
<b>Lecturer</b> Military College of Engineering	2006 - 2012
<b>Lecturer</b> Military College of Engineering	2005 - 2005
<b>Project Researcher</b> The University of Tokyo , Department of Civil Engineering, School of Engineering, Bunkyo-ku, Tokyo, Japan	2011 - 2012
<b>Teaching &amp; Technical Assistant</b> The University of Tokyo , Department of Civil Engineering, School of Engineering, Bunkyo-ku, Tokyo, Japan	2010 - 2011
<b>PhD Candidate</b> The University of Tokyo , Department of Civil Engineering, School of Engineering, Bunkyo-ku, Tokyo, Japan	2007 - 2011
<b>Lecturer</b> National University of Sciences & Technology (NUST) , Military College of Civil Engineering, Risalpur Campus, Risalpur 24090, KPK	2005 - 2007
<b>Project Engineer (Water Resour</b> Halcrow Pakistan (Pvt.) Limited , 3rd Floor, Nawa-e-Waqt House, Mauve Area, Sector G-7/1, Zero Point, Islamabad	2005 - 2005
<b>Senior Engineer</b> Associated Consulting Engineers – ACE (Pvt.) Limited , 1-C/2, M.M. Alam Road, Gulberg-III, Lahore	2003 - 2005
<b>Assistant Engineer Irrigation</b> Department of Agriculture, AJK , Irrigation and On-Farm Soil Conservation Component, Department of Agriculture, Azad Jammu & Kashmir	2002 - 2003
<b>Agricultural Credit Officer</b> United Bank Limited – UBL , United Bank Limited (UBL), Pattoki (0975), District Kasur	2001 - 2002
<b>Junior Engineer</b> Associated Consulting Engineers – ACE (Pvt.) Limited , 1-C/2, M.M. Alam Road, Gulberg-III, Lahore	1999 - 2001
<b>Research Associate</b> Centre of Excellence in Water Resources Engineering (CEWRE) , CEWRE, University of Engineering & Technology (UET), Lahore	1999 - 2001

## Awards

<b>MEXT Scholarship</b> Japanese government (Monbukagakusho: MEXT) Scholarship for PhD	2007
<b>1st position</b> Got 1st position in M.Sc. Water Resources Engineering, Center of Excellence in Water Resources Engineering, University of Engineering & Technology, Lahore, 2001.	2001
<b>1st Position</b> Got 1st position in B.Sc. Agricultural Engineering (Irrigation & Drainage Engineering), Faculty of Agricultural Engineering & Technology, University of Agriculture, Faisalabad, 1997.	1997

Professional Memberships

PEC	Since 1997
ASCE	Since 2015

Research Projects

National Projects

Forecasting to Adaptations: An Economic Based Water-Agriculture Sector Risk Assessment to Changing Climate	2022
Funding Agency: HEC	
Amount: PKR 10,290,000.00	
Status: Completed	

International Projects

HI-PATH: Pathways for Climate Resilient Development in the Hindu Kush Himalayan Region	2021
Funding Agency: International Development Research Centre: IDRC	
Amount: PKR 5,500,725.00	
Status: Approved_inprocess	

Industry Projects

National Projects

Design for Construction of Mini Dam at Tehsil Naushera, District Khushab	2020
Client: N/A	
Amount: PKR 1,804,910.00	
Status: Approved_inprocess	
Hydrological Impact Assessment of Construction of Ramma and Kasana Dams on Shahpur Dam	2019
Client: N/A	
Amount: PKR 5,181,551.00	
Status: Approved_inprocess	
Hydraulic Analysis of Bridge # 3 (9+765) on Swat Motorway Project	2019
Client: N/A	
Amount: PKR 535,500.00	
Status: Completed	
Identification of Water Recharge Source & Aquifer Capacity Enhancement – Sector E-9 Islamabad	2019
Client: N/A	
Amount: PKR 630,000.00	
Status: Completed	
Improvement in Hydrological Modelling for FATA Water Resources Development Project (FWRDP) in Bajaur, Khyber, and Mohmand Agencies	2017
Client: FATA Water Resources Development Project (FWRDP) Consultants	
Amount: PKR 4,850,160.00	
Status: Completed	

International Projects

Research Articles

High-resolution monthly gridded temperature dataset development and trend analysis across Afghanistan: a spatio-temporal approach	2025
Maghfoorullah SHAKIL AHMAD Muhammad Azmat Mohammad Uzair Rahil Khalil Ahmad	
Theoretical and Applied Climatology , Volume:156, Issue:5, Article Number 280	
Impact Factor: 2.800   Quartile: 3	
DOI: <a href="https://doi.org/10.1007/s00704-025-05484-1">https://doi.org/10.1007/s00704-025-05484-1</a>	
Growing Glacial Lake Outburst Flood Risks in Ghizer District: A Karakoram Anomaly Region	2025
Yusra Mazhar Salman Atif Muhammad Azmat Shakil Ahmad Fahim Ullah	
IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Volume 18, Pages 7811-7828	
Impact Factor: 4.700   Quartile: 1	

- 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>
- Exploring the dynamics and future projections of land use land cover changes by exploiting geospatial techniques; A case study of the Kabul River Basin** 2024  
*Muhammad Faheem Khokhar SHAKIL AHMAD Muhammad Uzair Mohammad Ajmal Stanikzai Junaid Aziz Khan 00000240652-Kamran . 00000360096-Rahmatullah .*  
*Heliyon*, Volume: 10, Issue: 20, Article Number: e39020  
**Impact Factor: 3.4 | Quartile: 1 | Citations: 2**  
**DOI:** <https://doi.org/10.1016/j.heliyon.2024.e39020>
- Developing high resolution monthly gridded precipitation dataset for Afghanistan** 2024  
*Mohammad Uzair Rahil Shakil Ahmad Muhammad Wasif Khan Ammara Mubeen Zakir Hussain Dahri Khalil Ahmad Muhammad Arshad Rahmatullah Wahdatyar*  
*Theoretical and Applied Climatology*, Pages 1-22  
**Impact Factor: 2.800 | Quartile: 3 | Citations: 7**  
**DOI:** <https://doi.org/10.1007/s00704-024-04910-0>
- Analyzing land use land cover (LULC) changes induced by the run-of river project and respondent survey: a case of Ghazi Barotha Hydropower Project on Indus River, Pakistan** 2024  
*Ehsan Inam Ullah Shakil Ahmad Muhammad Faheem Khokhar Umer Khayyam Muhammad Azmat Muhammad Arshad Faizan ur Rehman Qaiser*  
*Environmental Research Communications*, Volume 6, Issue 3, Article Number 035002  
**Impact Factor: 2.500 | Quartile: 3 | Citations: 1**  
**DOI:** 10.1088/2515-7620/ad2bb5
- Assessing the utility of hybrid hydrological modeling over complex conditions of the Chitral basin, Pakistan** 2023  
*Zain Syed Prince Mahmood Sajjad Haider Shakil Ahmad*  
*Journal of Water and Climate Change*, Volume 14, Issue 12, Pages 4444–4464  
**Impact Factor: 2.8 | Quartile: 2 | Citations: 2**  
**DOI:** <https://doi.org/10.2166/wcc.2023.256>
- Evapotranspiration estimation using a satellite-based surface energy balance: a case study of Upper Bari Doab, Pakistan** 2023  
*Muhammad Naufil Zahid SHAKIL AHMAD Junaid Aziz Khan Muhammad Dilshad Arshad Dr. Muhammad Azmat Dr. Muhammad Ukasha*  
*Environmental Earth Sciences*, Volume:82, Issue:24, Pages: 14  
**Impact Factor: 2.8 | Quartile: 2 | Citations: 7**  
**DOI:** 10.1007/s12665-023-11284-5
- Development of daily bias-corrected ensemble precipitation estimates over the Upper Indus Basin of the Hindukush-Karakoram-Himalaya** 2023  
*Kashif Jamal Xin Li Yingying Sajjad Haider Muhammad Rizwan Shakil Ahmad*  
*Journal of Water and Climate Change*, Volume 14(10), Pages 3517–3538  
**Impact Factor: 2.8 | Quartile: 2 | Citations: 2**  
**DOI:** <https://doi.org/10.2166/wcc.2023.202>
- Development of high resolution daily gridded precipitation and temperature dataset for potohar plateau of indus basin** 2023  
*Muhammad Wasif Khan Shakil Ahmad Zakir Hussain Dahri Zain Syed Khalil Ahmad Firdos Khan Muhammad Azmat*  
*Theoretical and Applied Climatology*, Volume 154, pages 1179–1201  
**Impact Factor: 3.4 | Quartile: 2 | Citations: 7**  
**DOI:** <https://doi.org/10.1007/s00704-023-04626-7>
- Short-long-term streamflow forecasting using a coupled wavelet transform-artificial neural network (WT-ANN) model at the Gilgit River Basin, Pakistan** 2023  
*Zain Syed Prince Mahmood Sajjad Haider SHAKIL AHMAD Khan Zaib Jadoon Rashid Farooq Sibtain Syed Khalil Ahmad*  
*JOURNAL OF HYDROINFORMATICS*, Vol:25 (3), Pages:881-894  
**Impact Factor: 3.058 | Quartile: 2 | Citations: 14**  
**DOI:** 10.2166/hydro.2023.161

<p><b>Conserving Water: Cost and Productivity Analysis of Responsive Drip and Conventional Irrigation</b></p> <p><i>Qumail Arshad Hamza Farooq Gabriel Shakil Ahmad Zakir Hussain Dahri Muhammad Shahid Ubaid Ullah Aftab Ullah</i></p> <p><i>Environmental Engineering and Management Journal</i>, Volume 23, No. 4, Pages 639-649</p> <p><b>Impact Factor:</b> 1.1   <b>Quartile:</b> 4   <b>Citations:</b> 2</p> <p><b>DOI:</b> <a href="http://doi.org/10.30638/eemj.2023.050">http://doi.org/10.30638/eemj.2023.050</a></p>	2023
<p><b>Intercomparison and Assessment of Stand-Alone and Wavelet-Coupled Machine Learning Models for Simulating Rainfall-Runoff Process in Four Basins of Pothohar Region, Pakistan</b></p> <p><i>Muhammad Tariq Khan Muhammad Shoaib Raffaele Albano Muhammad Azhar Inam Hamza Salahudin Muhammad Hammad Shakil Ahmad Muhammad Usman Ali Sarfraz Hashim Muhammad Kaleem Ullah</i></p> <p><i>Atmosphere</i>, Volume 14(3), Article Number 452</p> <p><b>Impact Factor:</b> 3.110   <b>Quartile:</b> 3   <b>Citations:</b> 2</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/atmos14030452">https://doi.org/10.3390/atmos14030452</a></p>	2023
<p><b>Development of methods for the simplification of complex group built causal loop diagrams: A case study of the Rechna doab</b></p> <p><i>Muhammad Asif Azhar Inam Jan Adamowski Muhammad Shoaib Hisham Tariq Shakil Ahmad Mohammad Reza Alizadeh Aftab Nazeer</i></p> <p><i>Ecological Modelling</i>, Volume 476, Article Number 110192</p> <p><b>Impact Factor:</b> 3.512   <b>Quartile:</b> 2   <b>Citations:</b> 5</p> <p><b>DOI:</b> <a href="https://doi.org/10.1016/j.ecolmodel.2022.110192">https://doi.org/10.1016/j.ecolmodel.2022.110192</a></p>	2023
<p><b>Hydrological and ecological impacts of run off river scheme; a case study of Ghazi Barotha hydropower project on Indus River, Pakistan</b></p> <p><i>Ehsan Inam Ullah Shakil Ahmad Muhammad Fahim Khokhar Muhammad Azmat Umer Khayyam Faizan ur Rehman Qaiser</i></p> <p><i>Heliyon</i>, Volume 9, Issue 1, Article Number e12659</p> <p><b>Impact Factor:</b> 3.776   <b>Quartile:</b> 2   <b>Citations:</b> 7</p> <p><b>DOI:</b> <a href="https://doi.org/10.1016/j.heliyon.2022.e12659">https://doi.org/10.1016/j.heliyon.2022.e12659</a></p>	2023
<p><b>Identification of Potential Natural Aquifer Recharge Sites in Islamabad, Pakistan, by Integrating GIS and RS Techniques</b></p> <p><i>Farooq Alam Muhammad Azmat Riaz Zarin Shakil Ahmad Abdur Raziq Hsu-Wen Vincent Young Kim-Anh Nguyen Yuei-An Liou</i></p> <p><i>Remote Sensing</i>, Volume 14(23), Article Number 6051</p> <p><b>Impact Factor:</b> 5.349   <b>Quartile:</b> 1   <b>Citations:</b> 10</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/rs14236051">https://doi.org/10.3390/rs14236051</a></p>	2022
<p><b>Estimation of Water Balance for Anticipated Land Use in the Potohar Plateau of the Indus Basin Using SWAT</b></p> <p><i>Muhammad Idrees Shakil Ahmad Muhammad Wasif Khan Zakir Hussain Dahri Khalil Ahmad Muhammad Azmat Irfan Ahmad Rana</i></p> <p><i>Remote Sensing</i>, Volume 14(21), Article Number 5421</p> <p><b>Impact Factor:</b> 5.349   <b>Quartile:</b> 1   <b>Citations:</b> 11</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/rs14215421">https://doi.org/10.3390/rs14215421</a></p>	2022
<p><b>A methodological framework for modeling sustainability visions: A case study of groundwater management in Faizpur distributary, Pakistan</b></p> <p><i>Rabeea Noor Azhar Inam Syeda Mishal Zahra Muhammad Shoaib Rameen Riaz Aneela Sarwar Muhammad Asif Shakil Ahmad</i></p> <p><i>Agricultural Water Management</i>, Volume 271, Article Number 107822</p> <p><b>Impact Factor:</b> 6.611   <b>Quartile:</b> 1   <b>Citations:</b> 5</p> <p><b>DOI:</b> <a href="https://doi.org/10.1016/j.agwat.2022.107822">https://doi.org/10.1016/j.agwat.2022.107822</a></p>	2022
<p><b>Linking flood risk perceptions and psychological distancing to climate change: A case study of rural communities along Indus and Chenab rivers, Pakistan</b></p> <p><i>Samavia Rasool Irfan Ahmad Rana Shakil Ahmad</i></p> <p><i>International Journal of Disaster Risk Reduction</i>, Volume 70, Article Number 102787</p> <p><b>Impact Factor:</b> 4.320   <b>Quartile:</b> 1   <b>Citations:</b> 20</p> <p><b>DOI:</b> <a href="https://doi.org/10.1016/j.ijdr.2022.102787">10.1016/j.ijdr.2022.102787</a></p>	2022
<p><b>Hydroclimatology of the Chitral River in the Indus Basin under Changing Climate</b></p> <p><i>Zain Syed Shakil Ahmad Zakir Hussain Dahri Muhammad Azmat Muhammad Shoaib Azhar Inam Muhammad Uzair Qamar Syed Zia Hussain Sarfraz Ahmad</i></p> <p><i>Atmosphere</i>, Volume 13(2), Article Number 295</p> <p><b>Impact Factor:</b> 2.686   <b>Quartile:</b> 3   <b>Citations:</b> 25</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/atmos13020295">https://doi.org/10.3390/atmos13020295</a></p>	2022
<p><b>Plausible Precipitation Trends over the Large River Basins of Pakistan in Twenty First Century</b></p> <p><i>Ammara Nusrat Hamza Farooq Gabriel Umm e Habiba Habib Ur Rehman Sajjad Haider Shakil Ahmad Muhammad Shahid Saad Ahmed Jamal Jahangir Ali</i></p> <p><i>Atmosphere</i>, Volume 13(2), Article Number 190</p>	2022

- Impact Factor:** 3.110 | **Quartile:** 3 | **Citations:** 4  
**DOI:** 10.3390/atmos13020190
- Removal of levofloxacin from aqueous solution by green synthesized magnetite (Fe<sub>3</sub>O<sub>4</sub>) nanoparticles using *Moringa olifera*: Kinetics and reaction mechanism analysis** 2021  
*Sikandar Altaf Rabeea Zafar Waqas Qamar Zaman Shakil Ahmad KHURRAM YAQOOB Asad Syed Asim Jahangir Khan Muhammad Bilal Muhammad Arshad*  
*Ecotoxicology and Environmental Safety*, Volume 226, Article Number 112826  
**Impact Factor:** 6.291 | **Quartile:** 1 | **Citations:** 82  
**DOI:** 10.1016/j.ecoenv.2021.112826
- Application of Machine Learning Techniques in Rainfall–Runoff Modelling of the Soan River Basin, Pakistan** 2021  
*Muhammad Tariq Khan Muhammad Shoaib Muhammad Hammad Hamza Salahudin Fiaz Ahmad Shakil Ahmad*  
*Water*, Volume 13(24), Article Number 3528  
**Impact Factor:** 3.103 | **Quartile:** 2 | **Citations:** 28  
**DOI:** <https://doi.org/10.3390/w13243528>
- An approach to understanding the intrinsic complexity of resilience against floods: Evidences from three urban communities of Pakistan** 2021  
*Irfan Ahmad Rana Saad Saleem Bhatti Ali Jamshed Shakil Ahmad*  
*International Journal of Disaster Risk Reduction*, Volume 63, Article Number 102442  
**Impact Factor:** 4.842 | **Quartile:** 1  
**DOI:** 10.1016/j.ijdr.2021.102442
- Performance Evaluation of Soft Computing Approaches for Forecasting COVID-19 Pandemic Cases** 2021  
*Muhammad Shoaib Hamza Salahudin Muhammad Hammad Shakil Ahmad Alamgir Akhtar Khan Mudasser Muneer Khan Muhammad Azhar Inam Baig Fiaz Ahmad Muhammad Kaleem Ullah*  
*SN Computer Science*, Volume 2, Article Number 372  
**Impact Factor:** N/A | **Citations:** 8  
**DOI:** <https://doi.org/10.1007/s42979-021-00764-9>
- Comparative Study of Powerful Predictive Modeling Techniques for Modeling Monthly Reference Evapotranspiration in Various Climatic Regions** 2021  
*Ali Raza Muhammad Shoaib Muhammad Azhar Inam Baig Shakil Ahmad Mudasser Muneer Khan Muhammad Kaleem Ullah Sarfraz Hashim*  
*Fresenius Environmental Bulletin*, Volume 30, No. 06B/2021, Pages 7490-7513  
**Impact Factor:** 0.618 | **Quartile:** 4  
**DOI:** [https://www.prt-parlar.de/download\\_feb\\_2021/](https://www.prt-parlar.de/download_feb_2021/)
- Multi-element uptake and growth responses of Rice (*Oryza sativa* L.) to TiO<sub>2</sub> nanoparticles applied in different textured soils** 2021  
*Sana Nisar Iram Gul Uzma Nawaz Shagufta Irum Hafsa Sadat Ishaq Ahmad Mian Shafaqat Ali Muhammad Rizwan Abdulaziz Abdullah Alsahli Mohammed Nasser Alyemeni Muhammad Arshad Shakil Ahmad*  
*Ecotoxicology and Environmental Safety*, Volume 215, Article Number 112149  
**Impact Factor:** 6.291 | **Quartile:** 1 | **Citations:** 30  
**DOI:** <https://doi.org/10.1016/j.ecoenv.2021.112149>
- Climate change and hydrological regime of the high-altitude Indus basin under extreme climate scenarios** 2021  
*Zakir Hussain Dahri Fulco Ludwig Eddy Moors Shakil Ahmad Bashir Ahmad Sarfraz Ahmad Muhammad Riaz Pavel Kabat*  
*Science of the Total Environment*, Volume 768, Article Number 144467  
**Impact Factor:** 10.754 | **Quartile:** 1 | **Citations:** 73  
**DOI:** <https://doi.org/10.1016/j.scitotenv.2020.144467>
- Spatio-Temporal Evaluation of Gridded Precipitation Products for the High-Altitude Indus Basin** 2021  
*Shakil Ahmad Irfan Ali Muhammad Shahid Iqbal Muhammad Saleem Pomee Abdul Ghafoor Mangrio Muhammad Munir Ahmad Pavel Kabat Zakir Hussain Dahri Fulco Ludwig Eddy Moors Bashir Ahmad Muhammad Shoaib*  
*International Journal of Climatology*, Pages 1-24  
**Impact Factor:** 3.651 | **Quartile:** 2 | **Citations:** 47  
**DOI:** <https://doi.org/10.1002/joc.7073>
- Flood Hazard Assessment for the Tori Levee Breach of the Indus River Basin, Pakistan** 2021  
*Babar Naeem Muhammad Azmat Hui Tao Shakil Ahmad Muhammad Umar Khattak Sajjad Haider Sajjad Ahmad Zarif Khoro Christopher R. Goodell*  
*WATER*, <https://www.mdpi.com/journal/water>  
**Impact Factor:** 3.530 | **Quartile:** 2 | **Citations:** 23

DOI: <https://doi.org/10.3390/w13050604>

**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

**Climatic and hydrological projections to changing climate under CORDEX-South Asia experiments over the Karakoram-Hindukush-Himalayan water towers**

2020

*Muhammad Azmat Abdul Waheed Aasia Wahab Christian Hugge Muhammad Uzair Qamar Ejaz Hussain Shakil Ahmad Science of the Total Environment* , Volume 703, Article Number 135010

**Impact Factor:** 7.963 | **Quartile:** 1 | **Citations:** 29

**DOI:** <https://doi.org/10.1016/j.scitotenv.2019.135010>

**Application of tuned liquid column ball damper (TLCBD) for improved vibration control performance of multi-storey structure**

2019

*Muhammad Tanveer Muhammad Usman Imdad Ullah Khan Shakil Ahmad Asad Hanif Syed Hassan Farooq PLoS ONE* , Volume 14(10), Article Number e0224436

**Impact Factor:** 2.740 | **Quartile:** 2 | **Citations:** 26

**DOI:** 10.1371/journal.pone.0224436

**Adjustment of measurement errors to reconcile precipitation distribution in the high-altitude Indus basin**

2018

*Zakir Hussain Dahri Eddy Moors Fulco Ludwig Shakil Ahmad Asif Khan Irfan Ali Pavel Kabat International Journal of Climatology* , Volume38, Issue10, Pages 3842-3860, August 2018

**Impact Factor:** 3.601 | **Quartile:** 1 | **Citations:** 61

**DOI:** 10.1002/joc.5539

**Ensembling Downscaling Techniques and Multiple GCMs to Improve Climate Change Predictions in Cryosphere Scarcely-Gauged Catchment**

2018

*Muhammad Azmat Muhammad Uzair Qamar Shakil Ahmad Muhammad Adnan Shahid Ejaz Hussain Sajjad Ahmad Rao Arsalan Khushnood Water Resources Management* , Volume 32, Pages 3155–3174

**Impact Factor:** 2.987 | **Quartile:** 1 | **Citations:** 12

**DOI:** 10.1007/s11269-018-1982-9

**Rainfall Extremes: a Novel Modeling Approach for Regionalization**

2017

*Muhammad Uzair Qamar Muhammad Azmat Muhammad Adnan Shahid Daniele Ganora Shakil Ahmad Muhammad Jehanzeb Masud Cheema Muhammad Abrar Faiz Abid Sarwar Water Resources Management* , Volume 31, Issue 6, Pages 1975-1994

**Impact Factor:** 2.644 | **Quartile:** 1 | **Citations:** 9

**DOI:** 10.1007/s11269-017-1626-5

**Characteristics of climatological tropospheric conditions during pre-monsoon and matured phases of Pakistan summer monsoon**

2012

*Shakil Ahmad Kazuaki NISHII Toru TAMURA Tetsu OHTA Eiji IKOMA Masaru KITSUREGAWA Toshio KOIKE Journal of Japan Society of Civil Engineers, Ser. B1 (Hydraulic Engineering)*, Volume 68, Issue 4, Pages 157-162

**Impact Factor:** 0

**DOI:** [https://doi.org/10.2208/jscejhe.68.I\\_157](https://doi.org/10.2208/jscejhe.68.I_157)

**Satellite-based snowcover distribution and associated snowmelt runoff modeling in Swat River Basin of Pakistan**

2011

*Zakir Hussain Dahri Bashir Ahmad Joseph H. Leach Dr. Shakil Ahmad Proceedings of the Pakistan Academy of Sciences* , Volume 48 (1), Pages 19-32

**Impact Factor:** N/A

**DOI:** <https://paspk.org/wp-content/uploads/proceedings/1c46db6dproc48-1-3.pdf>

**Numerical analysis of groundwater-flow and solute-transport under skimming Well**

2011

*Zakir Hussain Dahri Shakil Ahmad Ata-ur-Rehman Tariq Bashir Ahmad Ghulam Ali Science, Technology and Development* , Volume 30(1), Pages 12-28

**Impact Factor:** Nil

**DOI:** [https://www.researchgate.net/profile/Zakir-Dahri/publication/293452550\\_Numerical\\_Analysis\\_of\\_Groundwater-Flow\\_and\\_Solute-Transport\\_under\\_Skimming\\_Well/links/56b86cf308aebbde1a7f57c9/Numerical-Analysis-of-Groundwater-Flow-and-Solute-Transport-under-Skimming-Well.pdf](https://www.researchgate.net/profile/Zakir-Dahri/publication/293452550_Numerical_Analysis_of_Groundwater-Flow_and_Solute-Transport_under_Skimming_Well/links/56b86cf308aebbde1a7f57c9/Numerical-Analysis-of-Groundwater-Flow-and-Solute-Transport-under-Skimming-Well.pdf)

- Impact of Ghazi Barotha Hydropower Project on Land use/ Land Cover along Indus River** 2023  
*Ehsan Inam Ullah Dr. Muhammad Fahim Khokhar Dr. Shakil Ahmad Dr. Umer Khayyam*  
*Remote Sensing, GIS and Climate Change (Applications, Strategies, Solutions & Education)*, res.country(177,)  
**Citations:** N/A  
**DOI:** Nil
- Application of HEC-HMS for the event and continuous simulation in highaltitude scarcely-gauged catchment under changing climate** 2017  
*Muhammad Azmat M.U. Qamar Shakil Ahmad Ejaz Hussain Muhmmad Umair*  
*10th World Congress of EWRA*, res.country(88,)  
**Citations:** N/A  
**DOI:** Nil
- The Integrated Modeling Approach for Urban Flooding in the Context of Changing Climate (Case of Lai Nullah, Pakistan)** 2016  
*Dr. Shakil Ahmad Engr. Hammayun Zulifqar Rana Dr. Muhammad Azmat*  
*Water and Environment for Sustainable Development in Changing Climate*, res.country(177,)  
**Citations:** N/A  
**DOI:** <http://waterenvironmentforum.pk/detail/proceedingsreport.pdf>
- The Impact of Boreal Summer Intra-Seasonal Oscillation on the development of extremely wet and dry condition in South Asian Summer Monsoon** 2014  
*Masashi Minamide Dr. Shakil Ahmad Toshio Koike*  
*American Geophysical Union (AGU) Fall Meeting 2014*, res.country(233,)  
**Citations:** N/A  
**DOI:** <https://agu.confex.com/agu/fm14/webprogram/Paper15122.html>
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*Maheswor Shrestha Lei Wang Toshio Koike Xue Y Hirabayashi, Y Shakil Ahmad*  
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