SHAKIL AHMAD

Associate Professor

NUST Institute of Civil Engineering

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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 577, carried out 7 projects and filed 0 intellectual property.

Qualifications

PhD in Climate System and Water Cycle Variability 2007 - 2012
The University of Tokyo , Japan

M.E in Water Resources Engineering 1998 - 2001
UET Lahore , Pakistan

BE in Irrigation Engineering 1993 - 1997
University of Agriculture Faisalabad , Pakistan

Experience

Associate Professor 2021- Present
NUST Institute of Civil Engineering

Assistant Professor 2017 - 2021
NUST Institute of Civil Engineering

Assistant Professor 2013 - 2017
(Do Not Use-Duplicate)NUST Institute of Civil Engineering

Assistant Professor 2012 - 2013
(Do Not Use-Duplicate)NUST Institute of Civil Engineering

Lecturer 2012 - 2012
(Do Not Use-Duplicate)NUST Institute of Civil Engineering

Lecturer 2006 - 2005
Military College of Engineering

Lecturer 2006 - 2012
Military College of Engineering

Lecturer 2005 - 2005
Military College of Engineering

Project Researcher 2011 - 2012
The University of Tokyo , Department of Civil Engineering, School of Engineering, Bunkyo-ku, Tokyo, Japan

Teaching & Technical Assistant 2010 - 2011
The University of Tokyo , Department of Civil Engineering, School of Engineering, Bunkyo-ku, Tokyo, Japan

PhD Candidate 2007 - 2011
The University of Tokyo , Department of Civil Engineering, School of Engineering, Bunkyo-ku, Tokyo, Japan

Lecturer 2005 - 2007
National University of Sciences & Technology (NUST) , Military College of Civil Engineering, Risalpur Campus, Risalpur 24090, KPK

Project Engineer (Water Resour 2005 - 2005
Halcrow Pakistan (Pvt.) Limited , 3rd Floor, Nawa-e-Waqt House, Mauve Area, Sector G-7/1, Zero Point, Islamabad

Senior Engineer 2003 - 2005
Associated Consulting Engineers – ACE (Pvt.) Limited , 1-C/2, M.M. Alam Road, Gulberg-III, Lahore

Assistant Engineer Irrigation 2002 - 2003
Department of Agriculture, AJK , Irrigation and On-Farm Soil Conservation Component, Department of Agriculture, Azad Jammu & Kashmir

Agricultural Credit Officer 2001 - 2002
United Bank Limited – UBL , United Bank Limited (UBL), Pattoki (0975), District Kasur

Junior Engineer 1999 - 2001
Associated Consulting Engineers – ACE (Pvt.) Limited , 1-C/2, M.M. Alam Road, Gulberg-III, Lahore

Research Associate 1999 - 2001
Centre of Excellence in Water Resources Engineering (CEWRE) , CEWRE, University of Engineering & Technology (UET), Lahore

Awards

MEXT Scholarship 2007
Japanese government (Monbukagakusho: MEXT) Scholarship for PhD

1st position 2001
Got 1st position in M.Sc. Water Resources Engineering, Center of Excellence in Water Resources Engineering, University of Engineering & Technology, Lahore, 2001.

1st Position 1997
Got 1st position in B.Sc. Agricultural Engineering (Irrigation & Drainage Engineering), Faculty of Agricultural Engineering & Technology, University of Agriculture, Faisalabad, 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: https://doi.org/10.1007/s00704-025-05484-1

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

DOI: 10.1109/JSTARS.2024.3522950

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

Conserving Water: Cost and Productivity Analysis of Responsive Drip and Conventional Irrigation 2023

Qumail Arshad Hamza Farooq Gabriel Shakil Ahmad Zakir Hussain Dahri Muhammad Shahid Ubaid Ullah Aftab Ullah

Environmental Engineering and Management Journal, Volume 23, No. 4, Pages 639-649

Impact Factor: 1.1 | **Quartile:** 4 | **Citations:** 2

DOI: http://doi.org/10.30638/eemj.2023.050

Intercomparison and Assessment of Stand-Alone and Wavelet-Coupled Machine Learning Models for Simulating Rainfall-Runoff Process in Four Basins of Pothohar Region, Pakistan 2023

Muhammad Tariq Khan Muhammad Shoaib Raffaele Albano Muhammad Azhar Inam Hamza Salahudin Muhammad Hammad Shakil Ahmad Muhammad Usman Ali Sarfraz Hashim Muhammad Kaleem Ullah

Atmosphere , Volume 14(3), Article Number 452

Impact Factor: 3.110 | **Quartile:** 3 | **Citations:** 2

DOI: https://doi.org/10.3390/atmos14030452

Development of methods for the simplification of complex group built causal loop diagrams: A case study of the Rechna doab 2023

Muhammad Asif Azhar Inam Jan Adamowski Muhammad Shoaib Hisham Tariq Shakil Ahmad Mohammad Reza Alizadeh Aftab Nazeer

Ecological Modelling , Volume 476, Article Number 110192

Impact Factor: 3.512 | **Quartile:** 2 | **Citations:** 5

DOI: https://doi.org/10.1016/j.ecolmodel.2022.110192

Hydrological and ecological impacts of run off river scheme; a case study of Ghazi Barotha hydropower project on Indus River, Pakistan 2023

Ehsan Inam Ullah Shakil Ahmad Muhammad Fahim Khokhar Muhammad Azmat Umer Khayyam Faizan ur Rehman Qaiser

Heliyon , Volume 9, Issue 1, Article Number e12659

Impact Factor: 3.776 | **Quartile:** 2 | **Citations:** 7

DOI: https://doi.org/10.1016/j.heliyon.2022.e12659

Identification of Potential Natural Aquifer Recharge Sites in Islamabad, Pakistan, by Integrating GIS and RS Techniques 2022

Farooq Alam Muhammad Azmat Riaz Zarin Shakil Ahmad Abdur Raziq Hsu-Wen Vincent Young Kim-Anh Nguyen Yuei-An Liou

Remote Sensing , Volume 14(23), Article Number 6051

Impact Factor: 5.349 | **Quartile:** 1 | **Citations:** 10

DOI: https://doi.org/10.3390/rs14236051

Estimation of Water Balance for Anticipated Land Use in the Potohar Plateau of the Indus Basin Using SWAT 2022

Muhammad Idrees Shakil Ahmad Muhammad Wasif Khan Zakir Hussain Dahri Khalil Ahmad Muhammad Azmat Irfan Ahmad Rana

Remote Sensing , Volume 14(21), Article Number 5421

Impact Factor: 5.349 | **Quartile:** 1 | **Citations:** 11

DOI: https://doi.org/10.3390/rs14215421

A methodological framework for modeling sustainability visions: A case study of groundwater management in Faizpur distributary, Pakistan 2022

Rabeea Noor Azhar Inam Syeda Mishal Zahra Muhammad Shoaib Rameen Riaz Aneela Sarwar Muhammad Asif Shakil Ahmad

Agricultural Water Management , Volume 271, Article Number 107822

Impact Factor: 6.611 | **Quartile:** 1 | **Citations:** 5

DOI: https://doi.org/10.1016/j.agwat.2022.107822

Linking flood risk perceptions and psychological distancing to climate change: A case study of rural communities along Indus and Chenab rivers, Pakistan 2022

Samavia Rasool Irfan Ahmad Rana Shakil Ahmad

International Journal of Disaster Risk Reduction, Volume 70, Article Number 102787

Impact Factor: 4.320 | **Quartile:** 1 | **Citations:** 20

DOI: 10.1016/j.ijdrr.2022.102787

Hydroclimatology of the Chitral River in the Indus Basin under Changing Climate 2022

Zain Syed Shakil Ahmad Zakir Hussain Dahri Muhammad Azmat Muhammad Shoaib Azhar Inam Muhammad Uzair Qamar Syed Zia Hussain Sarfraz Ahmad

Atmosphere , Volume 13(2), Article Number 295

Impact Factor: 2.686 | **Quartile:** 3 | **Citations:** 25

DOI: https://doi.org/10.3390/atmos13020295

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

Removal of levofloxacin from aqueous solution by green synthesized magnetite (Fe3O4) 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.ijdrr.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/

Multi-element uptake and growth responses of Rice (Oryza sativa L.) to TiO2 nanoparticles applied in different textured soils 2021

Sana Nisar Iram Gul Uzma Nawaz Shagufta Irum Hafsaa 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 Khero 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:** 13

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

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

Conference Proceedings

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

Energy balance-based distributed modeling of snow and glacier melt runoff for the Hunza river basin in the Pakistan Karakoram Himalayan region 2012

Maheswor Shrestha Lei Wang Toshio Koike Xue Y Hirabayashi, Y Shakil Ahmad

American Geophysical Union (AGU) Fall Meeting 2012, res.country(233,)

Citations: N/A

DOI: Nil

On the Dynamics of Extreme Meteorological Droughts during Pakistan Summer Monsoon by Focusing the Anomalous States of Upper Troposphere 2012

Shakil Ahmad Toshio Koike Kazuaki Nishii

American Geophysical Union (AGU) Fall Meeting 2012, res.country(233,)

Citations: N/A

DOI: Nil

A Study on Extremely Dry and Wet Summer Monsoon in Pakistan by Focusing on the Anomalous States of the Upper Troposphere 2012

Shakil Ahmad Dr. Toshio Koike Dr. Kazuaki Nishii

European Geophysical Union (EGU) General Assembly 2012, res.country(12,)

Citations: N/A

DOI: Nil

Role of Anomalous States of Upper Tropospheric Circulation on Extremely Dry and Wet Summer Monsoon Events 2011

Shakil Ahmad Dr. Toshio Koike Dr. Kazuaki Nishii Dr. Maheswor Shrestha

American Geophysical Union (AGU) Fall Meeting 2011, res.country(233,)

Citations: N/A

DOI: Nil

Role of anomalous states of upper tropospheric circulation on extremely dry and wet summer monsoon events 2011

Dr. Shakil Ahmad Dr. Toshio Koike Dr. Toru Tamura Dr. Kazuaki Nishii Dr. Mohamed Rasmy Abdul Wahid

WCRP Open Science Conference: Climate Research in Service to Society, res.country(233,)

Citations: N/A

DOI: Nil

2D Numerical Simulation of River Hydrodynamics-Application to Indus River Reach Downstream Ghazi Barrage 2007

Dr. Sajjad Haider Tayyab Akram Dr. Shakil Ahmad

The Second International Conference on Environmentally Sustainable Development "ESDev-2007", res.country(177,)

Citations: N/A

DOI: NA