

# Hamza Farooq Gabriel

Professor

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## About

Dr. Hamza Farooq Gabriel is working as Professor in the NUST Institute of Civil Engineering. Dr. Hamza Farooq Gabriel has a PhD in Applied Hydrology. Dr. Hamza Farooq Gabriel has published 53 research articles & conference papers having a citation count of 581, carried out 7 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Applied Hydrology</b> Charles Sturt University , Australia	2006 - 2010
<b>MS in Construction Management</b> University of Birmingham , England	1991 - 1992
<b>MPhil in Water Resources Management</b> UET Lahore , Pakistan	1984 - 1987
<b>BE in Civil Engineering</b> UET Lahore , Pakistan	1978 - 1984

## Experience

<b>Professor</b> NUST Institute of Civil Engineering	2015- Present
<b>Associate Professor</b> NUST Institute of Civil Engineering	2010 - 2015
<b>Assistant Professor</b> NUST Institute of Civil Engineering.	2004 - 2010
<b>Assistant Professor</b> CoE in Water Resources Engineering (CEWRE) , CEWRE UET Lahore	1999 - 2004
<b>Lecturer/JRA</b> CoE in Water Resources Engineering (CEWRE) , CEWRE, UET, Lahore	1984 - 1999

## Awards

<b>12th Annual Environment E</b> 12th Annual Environment Excellence Award-2015 organized by National Forum for Environment & Health (NFEH)	2015
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## Professional Memberships

<b>PEC</b>	Since 1985
<b>PEC (CONGRESS)</b>	
<b>IEP</b>	
<b>IAHS</b>	
<b>INSAM</b>	
<b>NWRN</b>	
<b>PNCU-IHP</b>	

Research Projects

National Projects

<b>Numerical Modeling for Landslide Dam Breach Case Studies from China and Pakistan</b> <b>Funding Agency:</b> Scientific Cooperation Agreement for Visiting Scholar's Fund, China <b>Amount:</b> PKR 1,959,200.00 <b>Status:</b> Approved_inprocess	2020
<b>Economic and environmental implications of Water harvesting practices under changing climate and land use scenarios across Pakistan</b> <b>Funding Agency:</b> HEC <b>Amount:</b> PKR 20,840,000.00 <b>Status:</b> Completed	2021
<b>Numerical modeling of landslide dam breach case studies from China and Pakistan</b> <b>Funding Agency:</b> State Key Laboratory of Water Resources & Hydropower Engineering Science, Wuhan University, China <b>Amount:</b> PKR 1,967,120.00 <b>Status:</b> Approved_inprocess	2020
<b>Strategic Strengthening of Flood Warning and Management Capacity of Pakistan</b> <b>Funding Agency:</b> UNESCO <b>Amount:</b> PKR 10,000,000.00 <b>Status:</b> Completed	2016

International Projects

Industry Projects

National Projects

<b>Hydrological Impact Assessment of Construction of Ramma and Kasana Dams on Shahpur Dam</b> <b>Client:</b> N/A <b>Amount:</b> PKR 5,181,551.00 <b>Status:</b> Approved_inprocess	2019
<b>Hydraulic Analysis of Bridge # 3 (9+765) on Swat Motorway Project</b> <b>Client:</b> N/A <b>Amount:</b> PKR 535,500.00 <b>Status:</b> Completed	2019
<b>Identification of Water Recharge Source &amp; Aquifer Capacity Enhancement – Sector E-9 Islamabad</b> <b>Client:</b> N/A <b>Amount:</b> PKR 630,000.00 <b>Status:</b> Completed	2019

International Projects

Research Articles

<b>Spatial forest health monitoring using geospatial technique: A case study of Changa Manga Forest, Pakistan</b> <i>Muhammad Asad Nalain e Muhammad Muhammad Safdar Muhammad Jehanzeb Masud Cheema Hamza Farooq Gabriel Uzair Abbas Rehan Mehmood Sabir</i> <i>Journal of Xi'an Shiyou University, Natural Science Edition</i> , Volume 67, Issue 09, Pages 177-195 <b>Impact Factor:</b> N/A <b>DOI:</b> 10.5281/zenodo.13744041	2024
<b>Mapping and projecting spatiotemporal trends in groundwater levels and flow direction in Pakistan's water-scarce aquifer system</b> <i>Abdul Moeed Altamash Shabbir Dr. Hamza Farooq Gabriel</i> <i>Groundwater for Sustainable Development</i> , Volume 26, Article Number 101234 <b>Impact Factor:</b> 4.900   <b>Quartile:</b> 1   <b>Citations:</b> 1 <b>DOI:</b> <a href="https://doi.org/10.1016/j.gsd.2024.101234">https://doi.org/10.1016/j.gsd.2024.101234</a>	2024
<b>Catchment-scale assessment of drought impact on environmental flow in the Indus Basin, Pakistan</b> <i>Dr. Khalil Ur Rahman Dr. Songhao Shang Dr. Khaled Saeed Balkhair Dr. Hamza Farooq Gabriel Dr. Khan Zaib Jadoon Kifayat Zaman</i> <i>Natural Hazards and Earth System Sciences</i> , Volume: 24, Issue:06, Page: 2191-2214	2024

<p><b>Impact Factor:</b> 4.2   <b>Quartile:</b> 1  <b>DOI:</b> 10.5194/nhess-24-2191-2024</p>	
<p><b>Treatment Efficiency of Integrated Constructed Wetland for Domestic Wastewater</b>  <i>Faria Javed Sumbal Fazakat Imran Hashmi Hamza Farooq Gabriel</i>  <i>NUST Journal of Engineering Sciences</i>, Volume 17, No. 1, Pages 39-48  <b>Impact Factor:</b> N/A  <b>DOI:</b> <a href="https://doi.org/10.24949/njes.v17i1.741">https://doi.org/10.24949/njes.v17i1.741</a></p>	2024
<p><b>Analyzing the Role of Changing Climate on the Variability of Intensity-Duration-Frequency Curve Using Wavelet Analysis</b>  <i>Syed Adnan Shah Hamza Farooq Gabriel Muhammad Waqar Saleem Nuaman Ejaz Songhao Shang Deqiang Mao Khalil Ur Rahman</i>  <i>Water Resources Management</i>, Pages 1-23  <b>Impact Factor:</b> 4.300   <b>Quartile:</b> 1   <b>Citations:</b> 4  <b>DOI:</b> <a href="https://doi.org/10.1007/s11269-024-03812-0">https://doi.org/10.1007/s11269-024-03812-0</a></p>	2024
<p><b>Remote sensing and GIS based multi-criteria analysis approach with application of AHP and FAHP for structures suitability of rainwater harvesting structures in Lai Nullah, Rawalpindi, Pakistan</b>  <i>Rashid Ahmad Dr. Hamza Farooq Gabriel Farooq Alam Riaz Zarin Abdur Raziq Muhammad Nouman Hsu-Wen Vincent Young Yuei-An Liou</i>  <i>Urban Climate</i>, Volume 53, Article Number: 101817  <b>Impact Factor:</b> 6.4   <b>Quartile:</b> 1   <b>Citations:</b> 15  <b>DOI:</b> 10.1016/j.uclim.2024.101817</p>	2024
<p><b>Dam Break Flow: A Comparative Model Study Using OpenFOAM and BASEMENT</b>  <i>Sajjad Haider Hamza Farooq Gabriel Lei Yang Muhammad Shahid Ammara Mubeen</i>  <i>Arabian Journal for Science and Engineering</i>, Pages 1-17  <b>Impact Factor:</b> 2.9   <b>Quartile:</b> 2   <b>Citations:</b> 2  <b>DOI:</b> 10.1007/s13369-023-08400-9</p>	2023
<p><b>Enhancing Streamflow Modeling by Integrating GRACE Data and Shared Socio-Economic Pathways (SSPs) with SWAT in Hongshui River Basin, China</b>  <i>Muhammad Touseef Lihua Chen Hang Chen Dr. Hamza Farooq Gabriel Wenzhe Yang Dr. Ammara Mubeen</i>  <i>Remote Sensing</i>, Volume:15, Issue: 10, Article Number:2642  <b>Impact Factor:</b> 5.349   <b>Quartile:</b> 1   <b>Citations:</b> 11  <b>DOI:</b> 10.3390/rs15102642</p>	2023
<p><b>Conserving Water: Cost and Productivity Analysis of Responsive Drip and Conventional Irrigation</b>  <i>Qumail Arshad Hamza Farooq Gabriel Shakil Ahmad Zakir Hussain Dahri Muhammad Shahid Ubaid Ullah Aftab Ullah</i>  <i>Environmental Engineering and Management Journal</i>, Volume 23, No. 4, Pages 639-649  <b>Impact Factor:</b> 1.1   <b>Quartile:</b> 4   <b>Citations:</b> 2  <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>Soil Erosion Modelling and Accumulation Using RUSLE and Remote Sensing Techniques: Case Study Wadi Baysh, Kingdom of Saudi Arabia</b>  <i>Nuaman Ejaz Mohamed Elhag Jarbou Bahrawi Lifu Zhang Hamza Farooq Gabriel Khalil Ur Rahman</i>  <i>Sustainability</i>, Volume 15, Issue 4, Article Number 3218  <b>Impact Factor:</b> 3.889   <b>Quartile:</b> 2   <b>Citations:</b> 19  <b>DOI:</b> <a href="https://doi.org/10.3390/su15043218">https://doi.org/10.3390/su15043218</a></p>	2023
<p><b>Acceleration of flow modeling using a freeware 2D GPU-shallow water equations code</b>  <i>Prince Mahmood Sajjad Haider Hamza Farooq Gabriel Muhammad Shahid Zain Syed</i>  <i>Arabian Journal of Geosciences</i>, Volume 15, Article Number 1584  <b>Impact Factor:</b> N/A  <b>DOI:</b> <a href="https://doi.org/10.1007/s12517-022-10836-6">https://doi.org/10.1007/s12517-022-10836-6</a></p>	2022
<p><b>Bias correction method of high-resolution satellite-based precipitation product for Peninsular Malaysia</b>  <i>Zafar Iqbal Shamsuddin Shahid Kamal Ahmed Xiaojun Wang Tarmizi Ismail Hamza Farooq Gabriel</i>  <i>Theoretical and Applied Climatology</i>, Volume 148, Pages 1429-1446  <b>Impact Factor:</b> 3.179   <b>Quartile:</b> 2   <b>Citations:</b> 27  <b>DOI:</b> 10.1007/s00704-022-04007-6</p>	2022
<p><b>Sensitivity analysis and optimization of land use/cover and aquifer parameters for improved calibration of hydrological model</b>  <i>Ammara Mubeen Hamza Farooq Gabriel Sajjad Haider Mohsin Siddique</i>  <i>Mehran University Research Journal of Engineering and Technology</i>, Volume 41(2), Pages 21-34</p>	2022

<b>Impact Factor:</b> N/A <b>DOI:</b> 10.22581/muet1982.2202.03	
<b>Plausible Precipitation Trends over the Large River Basins of Pakistan in Twenty First Century</b> <i>Ammara Nusrat Hamza Farooq Gabriel Umm e Habiba Habib Ur Rehman Sajjad Haider Shakil Ahmad Muhammad Shahid Saad Ahmed Jamal Jahangir Ali Atmosphere</i> , Volume 13(2), Article Number 190 <b>Impact Factor:</b> 3.110   <b>Quartile:</b> 3   <b>Citations:</b> 4 <b>DOI:</b> 10.3390/atmos13020190	2022
<b>Hydraulic performance of constructed wetland at NUST H-12 campus</b> <i>Laraib Pervaiz Akhter Hamza Farooq Gabriel Sajjad Haider Shatirah Akib Journal of Applied Research in Water and Wastewater</i> , Volume 8, Issue 2, Serial Number 16, Pages 169-173 <b>Impact Factor:</b> N/A   <b>Citations:</b> 1 <b>DOI:</b> 10.22126/ARWW.2022.6661.1217	2021
<b>Quantitative assessment of regional land use and climate change impact on runoff across Gilgit watershed</b> <i>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</i> , Volume 80, Article Number 743 <b>Impact Factor:</b> 3.119   <b>Quartile:</b> 2   <b>Citations:</b> 60 <b>DOI:</b> 10.1007/s12665-021-10032-x	2021
<b>Performance efficiency of a large-scale integrated constructed wetland</b> <i>Kanza naseer Imran Hashmi Muhammad Arshad Hamza Farooq Gabriel Journal of Environmental Treatment Techniques</i> , Volume 9(3), Pages 629-635 <b>Impact Factor:</b> - <b>DOI:</b> <a href="https://doi.org/10.47277/JETT/9(3)635">https://doi.org/10.47277/JETT/9(3)635</a>	2021
<b>Assessing the potential and hydrological usefulness of the CHIRPS precipitation dataset over a complex topography in Pakistan</b> <i>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</i> , Pages 1-21 <b>Impact Factor:</b> 3.942   <b>Quartile:</b> 2   <b>Citations:</b> 25 <b>DOI:</b> 10.1080/02626667.2021.1957476	2021
<b>Impact of Urbanization on Groundwater Levels in Rawalpindi City, Pakistan</b> <i>Faraz ul Haq Usman Ali Naeem Hamza Farooq Gabriel Noor Muhammad Khan Ijaz Ahmad Habib Ur Rehman Muhammad Awais Zafar Pure and Applied Geophysics</i> , Volume 178, Pages 491-500 <b>Impact Factor:</b> 2.641   <b>Quartile:</b> 3   <b>Citations:</b> 36 <b>DOI:</b> <a href="https://doi.org/10.1007/s00024-021-02660-y">https://doi.org/10.1007/s00024-021-02660-y</a>	2021
<b>Application of precipitation products for flood modeling of transboundary river basin: a case study of Jhelum Basin</b> <i>Muhammad Umer Hamza Farooq Gabriel Sajjad Haider Ammara Nusrat Muhammad Shahid Muhammad Umer Theoretical and Applied Climatology</i> , Pages 1-16 <b>Impact Factor:</b> 3.179   <b>Quartile:</b> 2   <b>Citations:</b> 14 <b>DOI:</b> 10.1007/s00704-020-03471-2	2020
<b>Application of Machine Learning Techniques to Delineate Homogeneous Climate Zones in River Basins of Pakistan for Hydro-Climatic Change Impact Studies</b> <i>Ammara Nusrat Hamza Farooq Gabriel Sajjad Haider Shakil Ahmad Muhammad Shahid Saad Ahmed Jamal Applied Sciences</i> , Volume 10, Issue 19, Article Number 6878 <b>Impact Factor:</b> 2.679   <b>Quartile:</b> 2   <b>Citations:</b> 13 <b>DOI:</b> 10.3390/app10196878	2020
<b>Towards sustainable wastewater management: A spatial multi-criteria framework to site the Land-FILTER system in a complex urban environment</b> <i>Shamsa Kanwal Hamza Farooq Gabriel Ejaz Hussain Muhammad Sajjad Journal of Cleaner Production</i> , Volume 266, Article Number 121987 <b>Impact Factor:</b> 9.297   <b>Quartile:</b> 1   <b>Citations:</b> 14 <b>DOI:</b> <a href="https://doi.org/10.1016/j.jclepro.2020.121987">https://doi.org/10.1016/j.jclepro.2020.121987</a>	2020
<b>Application of Meta-Models for Accurate Calibration of Hydrological Model Parameters</b> <i>Ammara Nusrat Hamza Farooq Gabriel Sajjad Haider Muhammad Shahid</i>	2020

**Impact Factor:** -

**DOI:** 10.31838/jcr.07.16.103

**Analysis of seepage loss from concrete lined irrigation canals in Punjab, Pakistan**

2020

*Zulqarnain Shah Hamza Farooq Gabriel Sajjad Haider Turab Jafri*

*Irrigation and Drainage*, Pages 1-14

**Impact Factor:** 1.328 | **Quartile:** 3 | **Citations:** 16

**DOI:** 10.1002/ird.2474

**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

**Flow Division at a Free-Surface, Three-Channel Intersection Using 1D Shallow Water Equations**

2019

*Sajjad Haider Hamza Farooq Gabriel Ammara Mubeen*

*Arabian Journal for Science and Engineering*, Volume 44, Issue 10, Pages 8489-8501

**Impact Factor:** 1.711 | **Quartile:** 3 | **Citations:** 3

**DOI:** 10.1007/s13369-019-03849-z

**Effect of stakeholder's conflicts on project constraints: a tale of the construction industry**

2019

*Muhammad Irfan Muhammad Sohail Anwar Malik Abdur Rehman Nasir Muhammad Jamaluddin Thaheem Hamza Farooq Gabriel*

*International Journal of Conflict Management*, Volume 30, Issue No. 4, Pages 538-565

**Impact Factor:** 1.196 | **Quartile:** 2 | **Citations:** 29

**DOI:** 10.1108/IJCMA-04-2019-0074

**Centennial Heat Wave Projections over Pakistan using Ensemble NEX GDDP Data Set**

2018

*Jahangir Ali Kamran Haider Syed Hamza Farooq Gabriel Fahad Saeed Burhan Ahmad Syed Ahsan Ali Bukhari*

*Earth Systems and Environment*, Volume 2, Issue 3, Pages 437–454

**Impact Factor:** 0 | **Citations:** 28

**DOI:** 10.1007/s41748-018-0064-8

**Rainfall-runoff, flood inundation and sensitivity analysis of the 2014 Pakistan flood in the Jhelum and Chenab river basin**

2018

*Muhammad Junaid Siddiqui Sajjad Haider Hamza Farooq Gabriel Aamir Shahzad*

*Hydrological Sciences Journal*, Volume 63, Issue 13-14, Pages 1976-1997

**Impact Factor:** 2.180 | **Quartile:** 2 | **Citations:** 14

**DOI:** 10.1080/02626667.2018.1546049

**Development of a flood forecasting system using IFAS: a case study of scarcely gauged Jhelum and Chenab river basins**

2018

*Sajjad Haider Ammara Mubeen Hamza Farooq Gabriel Aamir Shahzad Muhammad Junaid Siddiqui*

*Arabian Journal of Geosciences*, NULL

**Impact Factor:** 1.141 | **Quartile:** 4 | **Citations:** 18

**DOI:** 10.1007/s12517-018-3737-6

**Causes of Discrepancies between Design and Construction in the Pakistan Construction Industry**

2018

*Hamza Farooq Gabriel Salman Azhar Rafiq Muhammad Choudhry Mustafa Kamal Khan*

*Journal of Construction in Developing Countries*, NULL

**Impact Factor:** 0 | **Citations:** 27

**DOI:** doi.org/10.21315/jcdc2017.22.2.1

**Quantification of Material Wastage in Construction Industry of Pakistan: An Analytical Relationship between Building Types and Waste Generation**

2017

*Husnain Arshad Muhammad Qasim Muhammad Jamaluddin Thaheem Hamza Farooq Gabriel*

*Journal of Construction in Developing Countries*, Volume 22(2), Pages 19–34

**Impact Factor:** - | **Citations:** 34

**DOI:** 10.21315/jcdc2017.22.2.2

**Supercritical Flow Simulation at a Right Channel Junction. Comparison between a Uniform and a Sparse Mesh**

2017

*Sajjad Haider Hamza Farooq Gabriel Shaukat Ali Khan*

*KSCE Journal of Civil Engineering*, Volume 21, Issue 7, Pages 2984-2990

<b>Impact Factor:</b> 0.940   <b>Quartile:</b> 3   <b>Citations:</b> 8 <b>DOI:</b> 10.1007/s12205-017-0811-7	
<b>Empirical Evidence of Extension of Time in Construction Projects</b> <i>Dr. Hamza Farooq Gabriel Haroon Shabbar Fahim Ullah Bilal Ayub Muhammad Jamaluddin Thaheem</i> <i>ASCE Journal of Legal Affairs and Dispute Resolution in Engineering Construction</i> , Volume: 9, Issue: 3, Article Number: UNSP 04517008 <b>Impact Factor:</b> 0 <b>DOI:</b> 10.1061/(ASCE)LA.1943-4170.0000217	2017
<b>FIDIC Conditions of Subcontract as a Model for General Conditions of Subcontract in Pakistan</b> <i>Muhammad Umer Zubair Hamza Farooq Gabriel Muhammad Jamaluddin Thaheem Dr. Muhammad Bilal Khurshid Ammara Mubeen</i> <i>Advances in Science, Technology and Engineering Systems</i> , Volume 1, Issue 6, Pages 5-13 <b>Impact Factor:</b> N/A <b>DOI:</b> 10.25046/aj010602	2016
<b>Critical External Risks in International Joint Ventures for Construction Industry in Pakistan</b> <i>Afia Razzaq Muhammad Jamaluddin Thaheem Ahsen Maqsoom Hamza Farooq Gabriel</i> <i>International Journal of Civil Engineering</i> , Volume 16, Issue 2A, Pages 189-205 <b>Impact Factor:</b> 0.624   <b>Quartile:</b> 4   <b>Citations:</b> 52 <b>DOI:</b> 10.1007/s40999-016-0117-z	2016
<b>Modeling for Sediment Management of Gulpur HPP Reservoir On Poonch River</b> <i>Munawar Iqbal A. R. Ghumman Hasham Nisar Hashmi Muhammad Adnan Khan Hamza Farooq Gabriel</i> <i>Science International</i> , Volume 28, Issue 4, Pages 3903-3914 <b>Impact Factor:</b> 0 <b>DOI:</b> <a href="https://www.researchgate.net/publication/328577887_MODELING_FOR_SEDIMENT_MANAGEMENT_OF_GULPUR_HPP_RESERVOIR_ON_POONCH_RIVER">https://www.researchgate.net/publication/328577887_MODELING_FOR_SEDIMENT_MANAGEMENT_OF_GULPUR_HPP_RESERVOIR_ON_POONCH_RIVER</a>	2016
<b>Probabilistic Application in Seismic Vulnerability Assessment of Deficient Low- to Medium-Rise Reinforced Concrete Buildings in Pakistan</b> <i>Muhammad Usman Ali Shaukat Ali Khan Muhammad Yousaf Anwar Hamza Farooq Gabriel</i> <i>Arabian Journal for Science and Engineering</i> , Volume 40, Pages 2479–2486 <b>Impact Factor:</b> 0.728   <b>Quartile:</b> 3   <b>Citations:</b> 4 <b>DOI:</b> DOI:10.1007/s13369-015-1684-z	2015
<b>Seismic Vulnerability Assessment of Deficient RC Structures with Bar Pullout and Joint Shear Degradation</b> <i>Arslan Mushtaq Shaukat Ali Khan Hamza Farooq Gabriel Sajjad Haider</i> <i>Advances in Civil Engineering</i> , Article Number: 537405 <b>Impact Factor:</b> N/A   <b>Citations:</b> 4 <b>DOI:</b> <a href="http://dx.doi.org/10.1155/2015/537405">http://dx.doi.org/10.1155/2015/537405</a>	2015
<b>Evaluation of Development and Land Use Change Effects on Rainfall-Runoff and Runoff-Sediment Relations of Catchment Area of Simly Lake Pakistan</b> <i>Muhammad Shahid Hamza Farooq Gabriel Amjad Nabi Sajjad Haider Shaukat Ali Khan Syed Muhammad Ali Shah</i> <i>Life Science Journal</i> , Volume 11, Issue 7, Pages 11-15 <b>Impact Factor:</b> N/A <b>DOI:</b> <a href="http://www.dx.doi.org/10.7537/marslsj1107s14.02">http://www.dx.doi.org/10.7537/marslsj1107s14.02</a>	2014
<b>Assessment of Flows in a Glaciated Region-Shigar River Basin, Pakistan</b> <i>S. A. Khan Muhammad Ashiq Hamza Farooq Gabriel</i> <i>Technical Journal (University of Engineering and Technology Taxila)</i> , Volume 19, Issue 1, Pages 38-50 <b>Impact Factor:</b> 0 <b>DOI:</b> <a href="http://agris.fao.org/agris-search/search.do?recordID=PK2014000580">http://agris.fao.org/agris-search/search.do?recordID=PK2014000580</a>	2014
<b>The Impacts of Climate Change on Water Stress Situations in the Yellow River Basin, China</b> <i>Jianxin Mu Qunchang Liu Hamza Farooq Gabriel Di Xu Jingdong Xu Caili Wu Hejing Ren</i> <i>Irrigation and Drainage</i> , Volume 62, Issue 5, pages 545-558 <b>Impact Factor:</b> 0.717   <b>Quartile:</b> 3   <b>Citations:</b> 8 <b>DOI:</b> 10.1002/ird.1784	2013
<b>Subcontracting Practices in the Construction Industry of Pakistan</b> <i>Rafiq Muhammad Choudhry Jimmie W. Hinze Muhammad Arshad Hamza F. Gabriel</i> <i>Journal of Construction Engineering and Management - ASCE</i> , Volume 138, Issue 12, Pages 1353-1359	2012

**Impact Factor:** 0.876 | **Quartile:** 2 | **Citations:** 54  
**DOI:** 10.1061/(ASCE)CO.1943-7862 .0000562

<b>Estimation of Floods of Ungauged Catchments in Jhelum River Basin in Pakistan</b> <i>Abdul Razzaq Ghumman Hamza Farooq Gabriel</i> <i>Mehran University Research Journal of Engineering and Technology</i> , Volume 23, No.3, Pages 179-188 <b>Impact Factor:</b> 0 <b>DOI:</b> -	2006
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<b>Comparison of Different Seepage-Control Measure Using Electrical Model</b> <i>Hamza Farooq Gabriel</i> <i>PCST Journal of Science and Technology</i> , Volume No. 23 No. of pages 7 <b>Impact Factor:</b> 0 <b>DOI:</b> -	2005
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## Conference Proceedings

<b>EVALUATION OF SEEPAGE LOSSES FROM LINED AND UNLINED IRRIGATION CANAL</b> <i>Faridullah Khan Dr. Hamza Farooq Gabriel Hassan Akhtar Muhammad Zaheer</i> <i>5th International Conference on Engineering and Applied Natural Sciences ICEANS 2024</i> , res.country(224,) <b>Citations:</b> N/A <b>DOI:</b> Nil	2024
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<b>Analyzing The Land-Use Impact on Flood Regime in Soan Basin</b> <i>Usama Nazar Dr. Muhammad Shahid Dr. Hamza Farooq Gabriel</i> <i>4th Conference on Sustainability in Civil Engineering (CSCE'22)</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> Nil	2022
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<b>A meta-model assisted framework of optimization of the Hydrological model parameters for accurate calibration</b> <i>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</i> <i>22nd EGU General Assembly 2020</i> , res.country(12,) <b>Citations:</b> N/A <b>DOI:</b> 10.5194/egusphere-egu2020-21083	2020
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<b>Depletion and quality deterioration of Groundwater Resources and its consequences on irrigated agriculture [Case Study: Pakistan]</b> <i>Ammara Mubeen Hamza Farooq Gabriel Abdul Sattar Shakir</i> <i>International Groundwater Resilience to Climate Change and High Pressure Conference</i> , res.country(224,) <b>Citations:</b> N/A <b>DOI:</b> N/A	2019
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<b>Estimation of Highway Project Duration at the Planning Stage and Analysis of Risk Factors Leading To Time Overrun</b> <i>Muhammad Irfan Sidra Kaleem Hamza Farooq Gabriel</i> <i>Second Transportation and Development Institute Congress</i> , res.country(233,) <b>Citations:</b> N/A <b>DOI:</b> 10.1061/9780784413586.059	2014
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<b>Recent developments in the regression methods for computing peak flood discharges</b> <i>Muhammad Irfan Mohiuddin Ali Khan Hamza Farooq Gabriel</i> <i>2nd International Conference on Hydrology &amp; Groundwater Expo</i> , res.country(233,) <b>Citations:</b> N/A <b>DOI:</b> 10.4172/2157-7587.S1.008	2013
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Book Chapters

<b>Use of Hydrological Modeling Techniques to Evaluate, Develop and Enhance Irrigation Potential of a Humid Subtropical Watershed</b> <i>Muhammad Salik Javaid Muhammad Shahid Hamza Farooq Gabriel Amjad Nabi</i> In: <i>Book on Irrigation and Drainage - Sustainable Strategies and Systems</i> , Chapter 4, Pages 77-90 <b>Citations:</b> N/A <b>DOI:</b> <a href="http://dx.doi.org/10.5772/58915">http://dx.doi.org/10.5772/58915</a>	2015
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Editorial Activities

<b>Journal of Hydraulic Research</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.7	2025
<b>Physics and Chemistry of the Earth</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.0	2025
<b>Desalination and Water Treatment</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.0	2025
<b>Water Resources Management</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.9	2025
<b>Journal of African Earth Sciences</b> Reviewed Papers for Journals <b>Impact Factor:</b> 2.2	2025
<b>Scientific Reports</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.8	2025
<b>Cleaner production letters</b> Reviewed Papers for Journals <b>Impact Factor:</b> -	2025
<b>Heliyon</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.4	2025
<b>Applied Water Science</b> Reviewed Papers for Journals <b>Impact Factor:</b> 5.7	2025
<b>International Journal of Geoheritage and Parks</b> Reviewed Papers for Journals <b>Impact Factor:</b> -	2025
<b>Environmental Monitoring and Assessment</b> Reviewed Papers for Journals <b>Impact Factor:</b> 2.9	2025
<b>International Journal of Geoheritage and Parks</b> Reviewed Papers for Journals <b>Impact Factor:</b> N/A	2025
<b>Water Supply</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.9	2024
<b>Sustainable Cities and Society</b> Reviewed Papers for Journals <b>Impact Factor:</b> 10.5	2024
<b>Heliyon</b> Reviewed Papers for Journals	2024



<b>Impact Factor:</b> 3.4	
<b>Water Supply</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.9	2024
<b>World Development Sustainability</b> Reviewed Papers for Journals <b>Impact Factor:</b> N/A	2024
<b>Water Supply</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.9	2024
<b>Natural Hazards</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.3	2024
<b>Water Supply</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.9	2024
<b>Heliyon</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.4	2024
<b>Water Supply</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.9	2024
<b>Heliyon</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.4	2024
<b>Trees, Forests &amp; People</b> Reviewed Papers for Journals <b>Impact Factor:</b> 2.7	2024
<b>Water Supply</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.9	2024
<b>Water Supply</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.7	2024
<b>Results in Earth Sciences</b> Reviewed Papers for Journals <b>Impact Factor:</b> 0.0	2024
<b>Remote Sensing</b> Reviewed Papers for Journals <b>Impact Factor:</b> 4.2	2024
<b>Heliyon</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.4	2024
<b>Journal of Environmental Management</b> Reviewed Papers for Journals <b>Impact Factor:</b> 8.7	2024
<b>Hydrological Sciences Journal</b> Reviewed Papers for Journals <b>Impact Factor:</b> 2.8	2024
<b>Water</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.0	2024
<b>Groundwater for Sustainable Development</b>	2024

Reviewed Papers for Journals	
<b>Impact Factor:</b> 4.9	
<b>Water Supply</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> 1.9	
<b>Hydrology and Water Resources in Agriculture and Ecology</b>	2024
Edited Journal Issue / Proceeding / Book	
<b>Impact Factor:</b> N/A	
<b>Atmosphere</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> 2.9	
<b>Agronomy</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> 3.7	
<b>Water Supply</b>	2024
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<b>Water Supply</b>	2024
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<b>GIScience &amp; Remote Sensing</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor:</b> 6.7	
<b>Water</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor:</b> 3.4	
<b>Journal of hydrology. Regional studies</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor:</b> 4.7	
<b>Water</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor:</b> 3.4	
<b>Water Supply</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor:</b> 1.7	
<b>Ecological Indicators</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor:</b> 6.9	
<b>International Journal of Climatology</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor:</b> 3.9	
<b>Water</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor:</b> 3.4	

<b>Ecological Indicators</b> Reviewed Papers for Journals <b>Impact Factor:</b> 6.9	2023
<b>Water Supply</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.7	2023
<b>Water Supply</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.7	2023
<b>Scientific Reports</b> Reviewed Papers for Journals <b>Impact Factor:</b> 4.6	2023
<b>Wate</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.4	2023
<b>Heliyon</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.776	2023
<b>Water</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.4	2023
<b>Water Supply</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.768	2023
<b>Agriculture-Basel</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.408	2023
<b>Sustainability</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.889	2023
<b>Heliyon</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.776	2023
<b>Water</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.530	2023
<b>IEEE Access</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.476	2023
<b>Heliyon</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.776	2023
<b>Land</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.905	2023
<b>Sustainability</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.889	2023
<b>Heliyon</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.776	2022
<b>Heliyon</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.776	2022

<b>Water</b>	2022
Reviewed Papers for Journals	
<b>Impact Factor: 3.530</b>	
<b>Land</b>	2022
Reviewed Papers for Journals	
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<b>Sustainability</b>	2022
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<b>Impact Factor: 2.547</b>	
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Reviewed Papers for Journals	
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<b>Impact Factor: 2.712</b>	
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<b>Impact Factor: 2.769</b>	
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<b>Impact Factor: 3.576</b>	
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<b>Impact Factor: 3.517</b>	
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Reviewed Papers for Journals	
<b>Impact Factor: 2.081</b>	
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<b>Impact Factor: 3.633</b>	
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<b>Impact Factor: -</b>	
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Reviewed Papers for Journals	

<b>Impact Factor:</b> 3.103	
Reviewed Papers for Journals	2021
<b>Impact Factor:</b> -	
<b>Urban Water Journal</b>	2021
Reviewed Papers for Journals	
<b>Impact Factor:</b> 2.081	
Reviewed Papers for Journals	2021
<b>Impact Factor:</b> -	
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<b>Impact Factor:</b> 3.179	
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<b>Impact Factor:</b> 2.924	
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<b>Impact Factor:</b> 0.556	
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Impact Factor: 0.9	