

Muhammad Azmat

Associate Professor
Institute of Geographical Information Systems

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Contact: 518864477
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About

Dr. Muhammad Azmat is working as Associate Professor in the Institute of Geographical Information Systems. Dr. Muhammad Azmat has a PhD in Water Resources and Climate Change . Dr. Muhammad Azmat has published 43 research articles & conference papers having a citation count of 684, carried out 11 projects and filed 1 intellectual property.

Qualifications

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| PhD in Water Resources and Climate Change Polytechnic Institute of Turin , Italy | 2012 - 2015 |
| MPhil in Water Resources Management UET Lahore , Pakistan | 2008 - 2011 |
| BE in Agricultural Engineering University of Agriculture Faisalabad , Pakistan | 2004 - 2008 |

Experience

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|---|---------------|
| Associate Professor Institute of Geographical Information Systems | 2025- Present |
| Associate Professor Institute of Geographical Information Systems | 2021 - 2025 |
| Assistant Professor Institute of Geographical Information Systems | 2019 - 2021 |
| Assistant Professor Institute of Geographical Information Systems | 2016 - 2019 |
| Assistant Professor Institute of Geographical Information Systems | 2016 - 2016 |
| Assistant Professor Institute of Geographical Information Systems | 2015 - 2016 |

Awards

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| Post Doc scholarship Swiss Govt grant Post Doc scholarship under "Swiss Govt Excellence Scholarship" | 2017 |
| HEC PhD Scholarship HEC grant me fully funded PhD scholarship | 2012 |

Professional Memberships

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| PEC | Since 2008 |
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Research Projects

National Projects

Research-based Habitat Planning for a Resilient Ishkoman Valley through Modelling and Assessment of Remote Sensing and In-valley Hazards and Glacial Water Variability under Climate Change 2022
Funding Agency: Agha Khan Planning and Building Service Pakistan (AKPBS,P)
Amount: PKR 7,100,000.00
Status: Approved_inprocess

Impact of Climate Vulnerabilities on Crop Production and Agriculture Water Resources Management in Indus Basin, Pakistan 2019
Funding Agency: Swiss Seed Monney Grants with South Asia and Iran
Amount: PKR 2,688,000.00
Status: Completed

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

An autonomous IoT based approach toward monitoring and subsequently identifying invasive Dengue/Zika vectors prevalence and possible dengue outbreak areas 2022
Funding Agency: IST
Amount: PKR 7,162,000.00
Status: Completed

Implications of Climate Change on Snow Cover Dynamics and Hydrological Behaviour in HK-Karakorum-Himalayan Ranges 2017
Funding Agency: HEC
Amount: PKR 459,400.00
Status: Completed

Impacts of Climate Vulnerabilities on Crop Production and Agriculture Water Resources Management in Indus Basin, Pakistan 2019
Funding Agency: University of Applied Sciences, Zurich, Switzerland
Amount: PKR 2,688,000.00
Status: Completed

Urban expansion as an incursive factor for food security: An assessment of Spatio-temporal variations in Punjab Province, Pakistan 2017
Funding Agency: HEC
Amount: PKR 3,050,000.00
Status: Approved_inprocess

vulnerability of Climate Change on water resources and its consequences on agriculture water management in Pakistan 2017
Funding Agency: HEC
Amount: PKR 5,410,000.00
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

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| A study of the IWT and implications of its violations | 2020 |
| Client: NIL | |
| Amount: PKR 1,000,000.00 | |
| Status: Approved_inprocess | |
| Design for Construction of Mini Dam at Tehsil Naushera, District Khushab | 2020 |
| Client: N/A | |
| Amount: PKR 1,804,910.00 | |
| Status: Approved_inprocess | |

International Projects

Research Articles

| | |
|--|------|
| Channel morphology of the Indus, and the growing risk of floods related damages in the Indus River basin | 2025 |
| <i>Raveen Fatima Salman Atif Monique Fort Muhammad Azmat</i> | |
| <i>Natural Hazards</i> , Pages 1-33 | |
| Impact Factor: 3.700 Quartile: 1 | |
| DOI: 10.1007/s11069-025-07429-3 | |
| High-resolution monthly gridded temperature dataset development and trend analysis across Afghanistan: a spatio-temporal approach | 2025 |
| <i>Maghfoorullah SHAKIL AHMAD Muhammad Azmat Mohammad Uzair Rahil Khalil Ahmad</i> | |
| <i>Theoretical and Applied Climatology</i> , 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 |
| <i>Yusra Mazhar Salman Atif Muhammad Azmat Shakil Ahmad Fahim Ullah</i> | |
| <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 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 |
| <i>Ahsan Ullah Khan SHAKIL AHMAD Khalil Ahmad Muhammad Azmat Zakir Hussain Dahri Muhammad Wasif Khan Zafar Iqbal</i> | |
| <i>Theoretical and Applied Climatology</i> , Volume 156, Article Number 20 | |
| Impact Factor: 2.800 Quartile: 3 Citations: 2 | |
| DOI: https://doi.org/10.1007/s00704-024-05274-1 | |
| An Application of Hybrid Bagging-Boosting Decision Trees Ensemble Model for Riverine Flood Susceptibility Mapping and Regional Risk Delineation | 2024 |
| <i>Javeria Sarwar Saud Ahmed Khan Muhammad Azmat Faridoon Khan</i> | |
| <i>Water Resources Management</i> , Pages 1-31 | |
| Impact Factor: 3.900 Quartile: 1 Citations: 4 | |
| DOI: https://doi.org/10.1007/s11269-024-03995-6 | |
| Local surface warming assessment in response to vegetation shifts over arid lands of Central Asia (2001-2020) | 2024 |
| <i>Sikandar Ali Akash Tariq Patient Mindje Kayumba Fanjiang Zeng Zeeshan Ahmed Muhammad Azmat Richard Mind'je Tianju Zhang</i> | |
| <i>Science of The Total Environment</i> , Volume 929 , Article Number 172628 | |
| Impact Factor: 8.200 Quartile: 1 Citations: 13 | |
| DOI: https://doi.org/10.1016/j.scitotenv.2024.172628 | |
| A comparative analysis of feature selection models for spatial analysis of floods using hybrid metaheuristic and machine learning models | 2024 |
| <i>Javeria Sarwar Saud Ahmed Khan Muhammad Azmat Faridoon Khan</i> | |
| <i>Environmental Science and Pollution Research</i> , Volume 31, Pages 33495-33514 | |
| Impact Factor: 0 Citations: 14 | |
| DOI: https://doi.org/10.1007/s11356-024-33389-5 | |

| | |
|--|------|
| <p>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</p> <p><i>Ehsan Inam Ullah Shakil Ahmad Muhammad Faheem Khokhar Umer Khayyam Muhammad Azmat Muhammad Arshad Faizan ur Rehman Qaiser Environmental Research Communications</i> , Volume 6, Issue 3, Article Number 035002</p> <p>Impact Factor: 2.500 Quartile: 3 Citations: 1</p> <p>DOI: 10.1088/2515-7620/ad2bb5</p> | 2024 |
| <p>Evapotranspiration estimation using a satellite-based surface energy balance: a case study of Upper Bari Doab, Pakistan</p> <p><i>Muhammad Naufil Zahid SHAKIL AHMAD Junaid Aziz Khan Muhammad Dilshad Arshad Dr. Muhammad Azmat Dr. Muhammad Ukasha Environmental Earth Sciences</i> , Volume:82, Issue:24, Pages: 14</p> <p>Impact Factor: 2.8 Quartile: 2 Citations: 7</p> <p>DOI: 10.1007/s12665-023-11284-5</p> | 2023 |
| <p>Development of high resolution daily gridded precipitation and temperature dataset for potohar plateau of indus basin</p> <p><i>Muhammad Wasif Khan Shakil Ahmad Zakir Hussain Dahri Zain Syed Khalil Ahmad Firdos Khan Muhammad Azmat Theoretical and Applied Climatology</i> , Volume 154, pages 1179–1201</p> <p>Impact Factor: 3.4 Quartile: 2 Citations: 7</p> <p>DOI: https://doi.org/10.1007/s00704-023-04626-7</p> | 2023 |
| <p>Comparative assessment of spatiotemporal variability in cryosphere and hydro-climatic regime of the Hunza, Astore and Shigar Basins (Hindukush-Karakoram–Himalaya Region) in Pakistan</p> <p><i>Aneela Khan Sana Khan Muhammad Azmat Humera Farah Arabian Journal of Geosciences</i> , Volume 16, Article Number 350</p> <p>Impact Factor: 0</p> <p>DOI: https://doi.org/10.1007/s12517-023-11440-y</p> | 2023 |
| <p>Hydrological and ecological impacts of run off river scheme; a case study of Ghazi Barotha hydropower project on Indus River, Pakistan</p> <p><i>Ehsan Inam Ullah Shakil Ahmad Muhammad Fahim Khokhar Muhammad Azmat Umer Khayyam Faizan ur Rehman Qaiser Heliyon</i> , Volume 9, Issue 1, Article Number e12659</p> <p>Impact Factor: 3.776 Quartile: 2 Citations: 7</p> <p>DOI: https://doi.org/10.1016/j.heliyon.2022.e12659</p> | 2023 |
| <p>Identification of Potential Natural Aquifer Recharge Sites in Islamabad, Pakistan, by Integrating GIS and RS Techniques</p> <p><i>Farooq Alam Muhammad Azmat Riaz Zarin Shakil Ahmad Abdur Raziq Hsu-Wen Vincent Young Kim-Anh Nguyen Yuei-An Liou Remote Sensing</i> , Volume 14(23), Article Number 6051</p> <p>Impact Factor: 5.349 Quartile: 1 Citations: 10</p> <p>DOI: https://doi.org/10.3390/rs14236051</p> | 2022 |
| <p>Estimation of Water Balance for Anticipated Land Use in the Potohar Plateau of the Indus Basin Using SWAT</p> <p><i>Muhammad Idrees Shakil Ahmad Muhammad Wasif Khan Zakir Hussain Dahri Khalil Ahmad Muhammad Azmat Irfan Ahmad Rana Remote Sensing</i> , Volume 14(21), Article Number 5421</p> <p>Impact Factor: 5.349 Quartile: 1 Citations: 11</p> <p>DOI: https://doi.org/10.3390/rs14215421</p> | 2022 |
| <p>Long-Term Performance Evaluation of the Latest Multi-Source Weighted-Ensemble Precipitation (MSWEP) over the Highlands of Indo-Pak (1981–2009)</p> <p><i>Sikandar Ali Yaning Chen Muhammad Azmat Patient Mindje Kayumba Zeeshan Ahmed Richard Mind'je Abdul Ghaffar Jinxiu Qin Akash Tariq Remote Sensing</i> , Volume 14(19), Article Number 4773</p> <p>Impact Factor: 5.349 Quartile: 1 Citations: 16</p> <p>DOI: https://doi.org/10.3390/rs14194773</p> | 2022 |
| <p>Agricultural system modeling: current achievements, innovations, and future roadmap</p> <p><i>Zeeshan Ahmed Dongwei Gui Zhiming Qi Yi Liu Yunfei Liu Muhammad Azmat Arabian Journal of Geosciences</i> , Volume 15, Article Number: 363</p> <p>Impact Factor: N/A</p> <p>DOI: https://doi.org/10.1007/s12517-022-09654-7</p> | 2022 |
| <p>Hydroclimatology of the Chitral River in the Indus Basin under Changing Climate</p> <p><i>Zain Syed Shakil Ahmad Zakir Hussain Dahri Muhammad Azmat Muhammad Shoaib Azhar Inam Muhammad Uzair Qamar Syed Zia Hussain Sarfraz Ahmad Atmosphere</i> , Volume 13(2), Article Number 295</p> | 2022 |

- Impact Factor:** 2.686 | **Quartile:** 3 | **Citations:** 25
DOI: <https://doi.org/10.3390/atmos13020295>
- Impacts of climate change on wheat phenology and yield in Indus Basin, Pakistan** 2021
Muhammad Azmat Fatima Ilyas Afia Sarwar Christain Huggel Saeid Ashraf Vaghefi Tao Hui Muhammad Uzair Qamar Muhammad Bilal Zeeshan Ahmed
Science of the Total Environment , Volume 790, Article Number 148221
Impact Factor: 10.753 | **Quartile:** 1 | **Citations:** 22
DOI: <https://doi.org/10.1016/j.scitotenv.2021.148221>
- 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>
- Trends of Aerosol Optical Thickness Using VIIRS S-NPP During Fog Episodes in Pakistan and India** 2021
Muhammad Umar Salman Atif Mark L. Hildebrandt Ali Tahir Muhammad Azmat Muhammad Zeeshan Ali Khan
Atmosphere , Volume 12(2), Article Number 242
Impact Factor: 3.110 | **Quartile:** 3 | **Citations:** 2
DOI: <https://doi.org/10.3390/atmos12020242>
- Landfill site selection by integrating fuzzy logic, AHP, and WLC method based on multi-criteria decision analysis** 2021
Riaz Zarin Muhammad Azmat Salman Raza Naqvi Qaisar Saddique Saif Ullah
Environmental Science and Pollution Research , Pages 1-16
Impact Factor: 5.190 | **Quartile:** 2 | **Citations:** 60
DOI: <https://doi.org/10.1007/s11356-020-11975-7>
- Deficit irrigation improves maize yield and water use efficiency in a semi-arid environment** 2021
Zou Yufeng Qaisar Saddique Ali Ajaz Xu Jiatus Muhammad Imran Khan Qing Mu Muhammad Azmat Huanjie Cai Kadambot H.M. Siddique
Agricultural Water Management , Volume 243, Article Number 106483
Impact Factor: 6.611 | **Quartile:** 1 | **Citations:** 96
DOI: <https://doi.org/10.1016/j.agwat.2020.106483>
- Analyzing the Performance and Application of CERES-Wheat and APSIM in the Guanzhong Plain, China** 2020
Qaisar Saddique Yufeng Zou Ali Ajaz Jianmei Ji Jiatus Xu Muhammad Azmat Muhammad Habib ur Rahman Jianqiang He Huanjie Cai
Transactions of the ASABE , Volume 63(6), Pages 1879-1893
Impact Factor: 1.188 | **Quartile:** 3 | **Citations:** 8
DOI: <https://doi.org/10.13031/trans.13631>
- 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>
- Pitfalls in transboundary Indus Water Treaty: a perspective to prevent unattended threats to the global security** 2019
Muhammad Uzair Qamar Pierluigi Claps Muhammad Uzair Qamar Muhammad Azmat Pierluigi Claps
NPJ Clean Water , Volume 2, Article number: 22
Impact Factor: 0 | **Citations:** 17
DOI: <https://doi.org/10.1038/s41545-019-0046-x>
- Future climate and cryosphere impacts on the hydrology of a scarcely gauged catchment on the Jhelum river basin, Northern Pakistan** 2018
Muhammad Azmat Muhammad Uzair Qamar Christian Huggel Ejaz Hussain
Science of The Total Environment , Volume 639, Pages 961-976
Impact Factor: 5.589 | **Quartile:** 1 | **Citations:** 69
DOI: [10.1016/j.scitotenv.2018.05.206](https://doi.org/10.1016/j.scitotenv.2018.05.206)
- Flow duration curve regionalization with enhanced selection of donor basins** 2018
Muhammad Uzair Qamar Daniele Ganora Pierluigi claps Muhammad Azmat Muhammad Adnan Shahid Rao Arsalan Khushnood
Journal of Applied Water Engineering and Research , Volume: 6, Issue: 1, Pages: 70-84
Impact Factor: 0 | **Citations:** 6

DOI: 10.1080/23249676.2016.1196621

- Water Pricing and Implementation Strategies for the Sustainability of an Irrigation System: A Case Study within the Command Area of the Rakh Branch Canal** 2018
Muhammad Uzair Qamar Muhammad Azmat Azhar Abbas Muhammad Usman Muhammad Adnan Shahid Zahid Mahmood Khan
Water, Volume 10(4), Article Number 509
Impact Factor: 2.524 | **Quartile:** 2 | **Citations:** 17
DOI: 10.3390/w10040509
- 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
- Optimizing Irrigation Deficit of Multipurpose Cascade Reservoirs** 2018
Muhammad Usman Rashid Abid Latif Muhammad Azmat
Water Resources Management, NULL
Impact Factor: 2.987 | **Quartile:** 1 | **Citations:** 20
DOI: <https://doi.org/10.1007/s11269-017-1897-x>
- Regional Groundwater Quality Management through Hydrogeological Modeling in LCC, West Faisalabad, Pakistan** 2017
Aamir Shakoor Zahid Mahmood Khan Muhammad Arshad Hafiz Umar Farid Muhammad Sultan Muhammad Azmat Muhammad Adnan Shahid Zafar Hussain
Journal of Chemistry, Article Number: 2041648
Impact Factor: 1.726 | **Quartile:** 3 | **Citations:** 18
DOI: <https://doi.org/10.1155/2017/2041648>
- Application of HEC-HMS for the event and continuous simulation in highaltitude** 2017
Muhammad Azmat M.U. Qamar S. Ahmed Ejaz Hussain M. Umair
European Water, Vol.57, Pages 77-84
Impact Factor: -
DOI: NA
- 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
- Impacts of changing climate and snow cover on the flow regime of Jhelum River, Western Himalayas** 2017
Muhammad Azmat Umar Waqas Liaqat Muhammad Uzair Qamar Usman Khalid Awan
Regional Environmental Change, Volume 17, Issue 3, Pages 813-825
Impact Factor: 3.149 | **Quartile:** 2 | **Citations:** 56
DOI: 10.1007/s10113-016-1072-6
- Model swapping: A comparative performance signature for the prediction of flow duration curves in ungauged basins** 2016
Muhammad UzairQamar Muhammad Azmat Muhammad Jehanzeb Masud Cheema Muhammad Adnan Shahid Rao Arsalan Khushnood Sajjad Ahmad
Journal of Hydrology, Volume 541, Pages 1030-1041
Impact Factor: 3.483 | **Quartile:** 1 | **Citations:** 13
DOI: <http://dx.doi.org/10.1016/j.jhydrol.2016.08.012>
- Performance Evaluation of Hose-Reel Sprinkler Irrigation System** 2016
Sarfraz Hashim Sajid Mahmood Muhammad Afzal Muhammad Azmat Hafiz Abdur Rehman
Arabian Journal for Science and Engineering, Volume: 41, Issue: 10, Pages: 3923-3930
Impact Factor: 0.865 | **Quartile:** 3 | **Citations:** 12
DOI: 10.1007/s13369-015-1953-x
- Precipitation variability assessment of northeast China: Songhua River basin** 2016
Muhammad Imran Khan Dong Liu Qiang Fu Muhammad Azmat Mingjie Luo Yuxiang Hu Yongjia Zhang Faiz M Abrar
Journal of Earth System Science, Volume 125, Issue 5, Pages 957-968
Impact Factor: 0.955 | **Quartile:** 4 | **Citations:** 14

DOI: 10.1007/s12040-016-0715-9

Hydrological modeling to simulate streamflow under changing climate in a scarcely gauged cryosphere catchment

2016

Muhammad Azmat Minha Choi Tae-Woong Kim Umar Waqas Liaqat

Environmental Earth Sciences , Volume: 75, Issue: 3

Impact Factor: 1.569 | **Quartile:** 3 | **Citations:** 44

DOI: 10.1007/s12665-015-5059-2

Estimation of Water Resources Availability and Mini-Hydro Productivity in High-Altitude Scarcely-Gauged Watershed

2015

Muhammad Azmat Francesco Laio Davide Poggi

Water Resources Management , Volume: 29, Issue: 14, Pages: 5037-5054

Impact Factor: 2.437 | **Quartile:** 1 | **Citations:** 19

DOI: <https://doi.org/10.1007/s11269-015-1102-z>

Conference Proceedings

Genetic algorithm based optimization of multipurpose cascade reservoirs for sustainable economic growth

2019

Muhammad Usman Rashid Muhammad Azmat F. Raees

11th World Congress on Water Resources and Environment (EWRA 2019), res.country(68,)

Citations: N/A

DOI: N/A

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

Application of HEC-HMS for the event and continuous simulation in high-altitude scarcely-gauged catchment under changing climate

2017

M. Azmat M.U. Qamar S. Ahmed E. Hussain M. Umair

10th World Congress of EWRA 'Panta Rhei', res.country(88,)

Citations: N/A

DOI: N/A

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>

Editorial Activities

| | |
|---|------|
| Reviewed Papers for Journals Impact Factor: 6.551 | 2021 |
| Reviewed Papers for Journals Impact Factor: 6.551 | 2021 |
| Reviewed Papers for Journals Impact Factor: 3.645 | 2021 |
| Reviewed Papers for Journals Impact Factor: 5.58 | 2019 |
| Edited Journal Issue / Proceeding / Book Impact Factor: - | 2019 |
| Reviewed Papers for Journals Impact Factor: 0.529 | 2019 |
| Reviewed Papers for Journals Impact Factor: 2.767 | 2019 |
| Reviewed Papers for Journals Impact Factor: 5.589 | 2018 |
| Reviewed Papers for Journals Impact Factor: 1.76 | 2018 |
| Reviewed Papers for Journals Impact Factor: 1.871 | 2018 |
| Reviewed Papers for Journals Impact Factor: 1.76 | 2018 |

Intellectual Property

Copyrights

Patents

Industrial Designs

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| IoT connected water throw monitor Status: Granted Filed | 2020 |
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Trademarks