

Irfan Ahmad Rana

Associate Professor

NUST Institute of Civil Engineering

Email: iarana@nit.nust.edu.pk

Contact: 0423758945

LinkedIn: <https://www.linkedin.com/in/irfan-ahmad-rana-3a321122/>



About

Dr. Irfan Ahmad Rana is working as Associate Professor in the NUST Institute of Civil Engineering. Dr. Irfan Ahmad Rana has a PhD in Disaster Risk Reduction And Climate Change Adaptation. Dr. Irfan Ahmad Rana has published 90 research articles & conference papers having a citation count of 2329, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Disaster Risk Reduction And Climate Change Adaptation Asian Institute of Technology, Thailand , Thailand	2014 - 2017
MS in Urban Planning Asian Institute of Technology, Thailand , Thailand	2012 - 2014
BSc in Urban Planning UET Lahore , Pakistan	2006 - 2010

Experience

Associate Professor NUST Institute of Civil Engineering	2025- Present
Assistant Professor NUST Institute of Civil Engineering	2024 - 2024
Assistant Professor NUST Institute of Civil Engineering	2023 - 2024
Assistant Professor NUST Institute of Civil Engineering	2022 - 2023
Assistant Professor NUST Institute of Civil Engineering.	2017 - 2022
Assistant Professor NUST Institute of Civil Engineering.	2017 - 2017
Assistant Director Lahore Development Authority , 467 J-II Johar Town, Main Boulevard Johar Town, Lahore	2010 - 2012

Awards

University Best Researcher Awards- 2021	2022
Overseas Scholarship Prog Higher Education Overseas Scholarship Award for Ms Leading PhD.	2017

Professional Memberships

PCATP	Since 2017
--------------	------------

Research Projects

National Projects

- "Private Sector led Best Practices for Environmental Protection and Tackling the Issue of Climate Change in Pakistan"** 2017
Funding Agency: HEC, NRP
Amount: PKR 2,315,000.00
Status: Completed
- Assessing physical and infrastructural vulnerability to urban flooding: A Case study of Pakistan** 2018
Funding Agency: HEC
Amount: PKR 285,000.00
Status: Completed
- Performance based seismic evaluation of existing high-rise buildings in pakistan** 2018
Funding Agency: HEC
Amount: PKR 450,500.00
Status: Completed

International Projects

Research Articles

- Quantifying urban adaptation planning in flood-prone communities of Islamabad, Pakistan: An index-based approach** 2025
Hassam Bin Waseem Irfan Ahmad Rana
International Journal of Disaster Risk Reduction, Volume 128, Article Number 105762
Impact Factor: 4.500 | **Quartile:** 1
DOI: <https://doi.org/10.1016/j.ijdr.2025.105762>
- A holistic approach for assessing multidimensional adaptive capacity to floods: From conceptualization to empirical assessment** 2025
Hassam Bin Waseem Irfan Ahmad Rana
International Journal of Disaster Risk Reduction, Volume:128, Article Number 105729
Impact Factor: 4.500 | **Quartile:** 1
DOI: [10.1016/j.ijdr.2025.105729](https://doi.org/10.1016/j.ijdr.2025.105729)
- Investigating the adaptation strategies and constraints in flood risk reduction of urban communities of Islamabad, Pakistan** 2025
Hassam Bin Waseem Irfan Ahmad Rana
Mitigation and Adaptation Strategies for Global Change, Volume:30, Issue:6, Article Number 51
Impact Factor: 2.700 | **Quartile:** 3
DOI: <https://doi.org/10.1007/s11027-025-10245-6>
- Prerequisites for the adoption of nature-based solutions in local communities using the NbS Assessment Tool (NAT): A case study of Lahore, Pakistan** 2025
Aimen Feroz Irfan Ahmad Rana
Environmental Impact Assessment Review, Volume:115, Article Number 108066
Impact Factor: 11.200 | **Quartile:** 1
DOI: <https://doi.org/10.1016/j.eiar.2025.108066>
- A meta-review of disaster research** 2025
Hassam Bin Waseem Irfan Ahmad Rana
Natural Hazards, Pages 1-34
Impact Factor: 3.300 | **Quartile:** 2
DOI: [10.1007/s11069-025-07296-y](https://doi.org/10.1007/s11069-025-07296-y)
- Exploring needs, choices, and preferences of homebuyers in Islamabad, Pakistan** 2024
Nida Naeem Irfan Ahmad Rana
Journal of Property Research, Pages:19
Impact Factor: 2.100 | **Quartile:** 2 | **Citations:** 2
DOI: [10.1080/09599916.2023.2286244](https://doi.org/10.1080/09599916.2023.2286244)
- Multi-Phase Residential Fire Vulnerability Assessment** 2024
Irfan Ahmad Rana Muhammad Awais Nisar Rida Hameed Lodhi Hassam Bin Waseem Adnan Nawaz Ayman Aslam Abdul Muqet Shah

- Fire Technology* , Pages 1-31
Impact Factor: 2.300 | **Quartile:** 2 | **Citations:** 1
DOI: <https://doi.org/10.1007/s10694-024-01673-y>
- A systematic review of urban terrorism literature: Root causes, thematic trends, and future directions** 2024
Muhammad Noor E Elahi Mirza Irfan Ahmad Rana
Journal of Safety Science and Resilience, Volume 5, Issue 3 , Pages 249-265
Impact Factor: 3.70 | **Quartile:** 1 | **Citations:** 3
DOI: <https://doi.org/10.1016/j.jnlssr.2024.03.006>
- Adaptation planning for climate change: An application of the advanced bibliometric analytical framework** 2024
Hassam Bin Waseem Muhammad Noor-E-Elahi Mirza Irfan Ahmad Rana Abdul Waheed
Natural Hazards Research , Volume 4, Issue 3, Pages 459-469
Impact Factor: N/A | **Citations:** 6
DOI: <https://doi.org/10.1016/j.nhres.2023.11.005>
- Assessing the vulnerability of selected coastal informal settlements to floods in the Old Brahmaputra River floodplain, Bangladesh** 2024
Md. Bayezid Islam Tahmina Sultan Irfan Ahmad Rana Hassam Bin Waseem Pamela Murray-Tuite Tawatchai Tingsanchali Mahzabeen Mahfuz
Urban Climate , Volume 56 , Article Number 102078
Impact Factor: 6.000 | **Quartile:** 1 | **Citations:** 6
DOI: <https://doi.org/10.1016/j.uclim.2024.102078>
- Assessing smog risk perception in Lahore metropolitan: A survey-based analysis** 2024
Amna Ali Irfan Ahmad Rana
Urban Climate , Volume 56, Article Number 102080
Impact Factor: 6.000 | **Quartile:** 1 | **Citations:** 2
DOI: [10.1016/j.uclim.2024.102080](https://doi.org/10.1016/j.uclim.2024.102080)
- Seismic evaluation of non-seismically detailed RC buildings in Pakistan: performance and damage accumulation under repeated earthquakes.** 2024
Saima Munir Fawad Ahmed Najam Asad ur Rahman Umair Jalil Malik Irfan Ahmad Rana Ather Ali
Bulletin of Earthquake Engineering, Volume: 22, Pages 4547–4579,
Impact Factor: 4.600 | **Quartile:** 1
DOI: <https://doi.org/10.1007/s10518-024-01935-8>
- Assessing Multidimensional Vulnerability of Rural Areas to Flooding: An Index-Based Approach** 2024
Samavia Rasool Irfan Ahmad Rana Hassam Bin Waseem
International Journal of Disaster Risk Science, Volume 15, Pages 88-106
Impact Factor: 4.00 | **Quartile:** 1 | **Citations:** 4
DOI: [10.1007/s13753-024-00547-9](https://doi.org/10.1007/s13753-024-00547-9)
- A bibliometric and systematic review of the Methods for the Improvement of Vulnerability Assessment in Europe framework: A guide for the development of further multi-hazard holistic framework** 2023
Ali Jamshed Irfan Ahmad Rana Joern Birkmann Joanna McMillan Stefan Kienberger
Jamba-Journal of Disaster Risk Studies, Volume 15, No. 1, Article Number a1486
Impact Factor: 1.300 | **Quartile:** 2 | **Citations:** 4
DOI: [10.4102/jamba.v15i1.1486](https://doi.org/10.4102/jamba.v15i1.1486)
- Exploring the role of social capital in flood risk reduction: Insights from a systematic review** 2023
Hassam Bin Waseem Muhammad Noor E Elahi Mirza Irfan Ahmad Rana
Environmental Impact Assessment Review, Volume:105, Article Number: 107390
Impact Factor: 7.9 | **Quartile:** 1 | **Citations:** 16
DOI: [10.1016/j.eiar.2023.107390](https://doi.org/10.1016/j.eiar.2023.107390)
- Flood resilience assessment from the perspective of urban (in)formality in Surat, India: Implications for sustainable development** 2023
Ali Jamshed Chirag Patel Anshul Puriya Nimra Iqbal Irfan Ahmad Rana Joanna M. McMillan Rajiv Pandey Shahbaz Altaf Rana Tahir Mehmood Umair bin Saad
Natural Hazards , Pages 1-30
Impact Factor: 3.7 | **Quartile:** 2 | **Citations:** 8
DOI: <https://doi.org/10.1007/s11069-023-06267-5>
- Digital real estate: a review of the technologies and tools transforming the industry and society** 2023

Nida Naeem Irfan Ahmad Rana Abdur Rehman Nasir

Smart Construction and Sustainable Cities, Volume: 01, Article Number: 15, Pages: 21

Impact Factor: N/A | Citations: 16

DOI: 10.1007/s44268-023-00016-0

A novel framework to assess multidimensional disaster resilience of children: From conceptualization to quantification

2023

Irfan Ahmad Rana Ihtisham Ul Haq Khan Niazi Zainab Khalid Adnan Nawaz Fawad Ahmed Najam

International Journal of Disaster Risk Reduction, Volume:96, Article Number: 103914

Impact Factor: 4.2 | Quartile: 1 | Citations: 4

DOI: 10.1016/j.ijdr.2023.103914

Actions, beliefs, and perceptions during COVID-19 lockdown: A comparative study of urban and rural communities of Rawalpindi, Pakistan

2023

Irfan Ahmad Rana Iqra Kamil Hassam Bin Waseem

International Journal of Disaster Risk Reduction, Volume:96, Article Number: 103918

Impact Factor: 5.0 | Quartile: 1

DOI: 10.1016/j.ijdr.2023.103918

Multi-hazard risk perception: An empirical study of the remote Gilgit city, Hindukush-Karakorum-Himalayan (HKH) region, Pakistan

2023

Syed Samad Shah Irfan Ahmad Rana Ather Ali

International Journal of Disaster Risk Reduction, Volume 96, Article Number 103996

Impact Factor: 5.0 | Quartile: 1 | Citations: 3

DOI: 10.1016/j.ijdr.2023.103996

Floods in Pakistan: A state-of-the-art review

2023

Hassam Bin Waseem Irfan Ahmad Rana

Natural Hazards Research, Volume:3, Issue:3, Page:359-373

Impact Factor: 0 | Citations: 56

DOI: 10.1016/j.nhres.2023.06.005

Monsoon flood risks in urban areas of Pakistan: A way forward for risk reduction and adaptation planning

2023

Azka Zia Irfan Ahmad Rana Hafiz Syed Hamid Arshad Zainab Khalid Adnan Nawaz

Journal of Environmental Management, Volume 336, Article Number 117652

Impact Factor: 8.910 | Quartile: 1 | Citations: 36

DOI: 10.1016/j.jenvman.2023.117652

Evacuation decision making and risk perception: flooded rural communities in Pakistan

2023

Abdul Muqeet Irfan Ahmad Rana Rida Hameed Lodhi Fawad Ahmed Najam Ather Ali

Environmental Hazards, Vol:23, No. 1, Pages:54-71

Impact Factor: 4.0 | Quartile: 2 | Citations: 9

DOI: 10.1080/17477891.2023.2220947

Multidimensional poverty vis-à-vis climate change vulnerability: Empirical evidence from flood-prone rural communities of Charsadda and Nowshera districts in Pakistan

2023

Irfan Ahmad Rana Muhammad Mubashir Khan Rida Hameed Lodhi Shahbaz Adnan Nawaz Fawad Ahmed Najam

World Development Sustainability, Volume 2, Article Number 100064

Impact Factor: N/A | Citations: 14

DOI: <https://doi.org/10.1016/j.wds.2023.100064>

The impact of psychological distance to climate change and urban informality on adaptation planning

2023

Irfan Ahmad Rana Hafiz Syed Hamid Arshad Ali Jamshed Zainab Khalid Zahid Irshad Younas Saad Saleem Bhatti Junaid Ahmad

Urban Climate, Volume 49, Article Number 101460

Impact Factor: 6.663 | Quartile: 1 | Citations: 13

DOI: 10.1016/j.uclim.2023.101460

Institutional challenges in reducing disaster risks in the remote city of Hindukush-Karakorum-Himalayan (HKH) region, Pakistan

2023

Syed Samad Shah Irfan Ahmad Rana

International Journal of Disaster Risk Reduction, Volume 88, Article Number 103581

Impact Factor: 4.842 | Quartile: 1 | Citations: 10

DOI: 10.1016/j.ijdr.2023.103581

- Climate change and glacial lake outburst flood (GLOF) risk perceptions: An empirical study of Ghizer District, Gilgit-Baltistan Pakistan** 2022
Atif Bilal Aslam Irfan Ahmad Rana Syed Samad Shah Ghulam Mohiuddin
International Journal of Disaster Risk Reduction, Volume 83, Article Number 103392
Impact Factor: 4.842 | **Quartile:** 1 | **Citations:** 12
DOI: 10.1016/j.ijdr.2022.103392
- Psychological resilience of children in a multi-hazard environment: An index-based approach** 2022
Ihtisham Ul Haq Khan Niazi Irfan Ahmad Rana Hafiz Syed Hamid Arshad Rida Hameed Lodhi Fawad Ahmed Najam Ali Jamshed
International Journal of Disaster Risk Reduction, Volume 83, Article Number 103397
Impact Factor: 4.842 | **Quartile:** 1 | **Citations:** 10
DOI: 10.1016/j.ijdr.2022.103397
- Quantifying the role of social capital for enhancing urban resilience against climate crisis: Empirical evidence from formal and informal settlements of Pakistan** 2022
Maheen Shahid Irfan Ahmad Rana Ali Jamshed Fawad Ahmed Najam Ather Ali Ayman Aslam
Cities, Volume 130, Article Number 103851
Impact Factor: 6.077 | **Quartile:** 1 | **Citations:** 18
DOI: 10.1016/j.cities.2022.103851
- 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>
- Gendered mode choice preferences and characteristics for educational trips in Abbottabad, Pakistan: An empirical investigation** 2022
Rida Hameed Lodhi Irfan Ahmad Rana Abdul Waheed
Case Studies on Transport Policy, Volume 10, Issue 4, Pages 2102-2110
Impact Factor: N/A | **Citations:** 7
DOI: <https://doi.org/10.1016/j.cstp.2022.09.010>
- A localized index-based approach to assess heatwave vulnerability and climate change adaptation strategies: A case study of formal and informal settlements of Lahore, Pakistan** 2022
Irfan Ahmad Rana Laila Sikander Zainab Khalid Adnan Nawaz Fawad Ahmed Najam Sibghat Ullah Khan Ayman Aslam
Environmental Impact Assessment Review, Volume 96, Article Number 106820
Impact Factor: 4.549 | **Quartile:** 2 | **Citations:** 33
DOI: 10.1016/j.eiar.2022.106820
- Three-step neural network approach for predicting monsoon flood preparedness and adaptation: Application in urban communities of Lahore, Pakistan** 2022
Dr. Irfan Ahmad Rana Rida Hameed Lodhi Azka Zia Ali Jamshed Adnan Nawaz
Urban Climate, Volume 45, Article Number 101266
Impact Factor: 6.663 | **Quartile:** 1 | **Citations:** 30
DOI: 10.1016/j.uclim.2022.101266
- Flood risk perception and communication: The role of hazard proximity** 2022
Asher Ali Irfan Ahmad Rana Ather Ali Fawad Ahmed Najam
Journal of Environmental Management, Volume 316, Article Number 115309
Impact Factor: 6.789 | **Quartile:** 1 | **Citations:** 32
DOI: 10.1016/j.jenvman.2022.115309
- Social protection in disaster risk reduction and climate change adaptation: A bibliometric and thematic review** 2022
Dr. Irfan Ahmad Rana Sifullah Khaled Adnan Nawaz Ali Jamshed
Journal of Integrative Environmental Sciences, Pages 1-19
Impact Factor: 3.143 | **Quartile:** 3 | **Citations:** 32
DOI: 10.1080/1943815X.2022.2108458
- Assessing the perceived spatial extent of a flood using cognitive mapping: a case study of rural communities along Indus and Chenab Rivers, Pakistan** 2022
Samavia Rasool Irfan Ahmad Rana Hafiz Syed Hamid Arshad
Modeling Earth Systems and Environment, Pages 1-16

Impact Factor: N/A Citations: 3 DOI: 10.1007/s40808-022-01442-2	
A systematic analysis of worldwide disasters, epidemics and pandemics associated mortality of 210 countries for 15 years (2001–2015)	2022
<i>Junaid Ahmad Mokbul Morshed Ahmad Zhaohui Su Irfan Ahmad Rana Asif Rehman Haleema Sadia International Journal of Disaster Risk Reduction</i> , Volume 76, Article Number 103001	
Impact Factor: 4.320 Quartile: 1 Citations: 8 DOI: 10.1016/j.ijdr.2022.103001	
The impact of risk perception on earthquake preparedness: An empirical study from Rawalakot, Pakistan	2022
<i>Usama Bin Naseem Kiani Fawad Ahmed Najam Irfan Ahmad Rana International Journal of Disaster Risk Reduction</i> , Volume 76, Article Number 102989	
Impact Factor: 4.320 Quartile: 1 Citations: 19 DOI: 10.1016/j.ijdr.2022.102989	
Relationship of Residential Location Choice with Commute Travels and Socioeconomics in the Small Towns of South Asia: The Case of Hafizabad, Pakistan	2022
<i>Houshmand Masoumi Atif Bilal Aslam Irfan Ahmad Rana Muhammad Ahmad Nida Naeem Sustainability</i> , Volume 14(6), Article Number 3163	
Impact Factor: 3.251 Quartile: 2 Citations: 5 DOI: 10.3390/su14063163	
The use of local climate zones in the urban environment: A systematic review of data sources, methods, and themes	2022
<i>Ayman Aslam Irfan Ahmad Rana Urban Climate</i> , Volume 42, Article Number 101120	
Impact Factor: 5.731 Quartile: 1 Citations: 90 DOI: https://doi.org/10.1016/j.uclim.2022.101120	
Linking flood risk perceptions and psychological distancing to climate change: A case study of rural communities along Indus and Chenab rivers, Pakistan	2022
<i>Samavia Rasool Irfan Ahmad Rana Shakil Ahmad International Journal of Disaster Risk Reduction</i> , Volume 70, Article Number 102787	
Impact Factor: 4.320 Quartile: 1 Citations: 20 DOI: 10.1016/j.ijdr.2022.102787	
Local climate zones and its potential for building urban resilience: a case study of Lahore, Pakistan	2022
<i>Ayman Aslam Irfan Ahmad Rana Saad Saleem Bhatti International Journal of Disaster Resilience in the Built Environment</i> , Pages 1-18	
Impact Factor: N/A Citations: 9 DOI: 10.1108/IJDRBE-08-2021-0116	
Impact of the built environment on climate change risk perception and psychological distancing: Empirical evidence from Islamabad, Pakistan	2022
<i>Ayman Aslam Irfan Ahmad Rana Environmental Science and Policy</i> , Volume 127, Pages 228-240	
Impact Factor: 5.581 Quartile: 1 Citations: 20 DOI: 10.1016/j.envsci.2021.10.024	
The spatiotemporal dynamics of urbanisation and local climate: A case study of Islamabad, Pakistan	2021
<i>Ayman Aslam Irfan Ahmad Rana Saad Saleem Bhatti Environmental Impact Assessment Review</i> , Volume 91, Article Number 106666	
Impact Factor: 4.549 Quartile: 2 Citations: 43 DOI: https://doi.org/10.1016/j.eiar.2021.106666	
An approach to understanding the intrinsic complexity of resilience against floods: Evidences from three urban communities of Pakistan	2021
<i>Irfan Ahmad Rana Saad Saleem Bhatti Ali Jamshed Shakil Ahmad International Journal of Disaster Risk Reduction</i> , Volume 63, Article Number 102442	
Impact Factor: 4.842 Quartile: 1 DOI: 10.1016/j.ijdr.2021.102442	
Determinants of transportation sustainability in universities of Islamabad, Pakistan	2021

Muhammad Hamza Baig Abdul Waheed Irfan Ahmad Rana Kulsoom Abbas
International Journal of Sustainability in Higher Education, Pages 1-17

Impact Factor: 4.120 | **Quartile:** 1 | **Citations:** 4

DOI: 10.1108/IJSHE-07-2020-0273

Holistic Multidimensional Vulnerability Assessment: An empirical investigation on rural communities of the Hindu Kush Himalayan region, Northern Pakistan

2021

Zainab Khalid Xingmin Meng Irfan Ahmad Rana Mohib ur Rehman Xiaojun Su

International Journal of Disaster Risk Reduction, Volume 62, Article Number 102413

Impact Factor: 4.842 | **Quartile:** 1 | **Citations:** 28

DOI: 10.1016/j.ijdr.2021.102413

Disaster management cycle and its application for flood risk reduction in urban areas of Pakistan

2021

Irfan Ahmad Rana Muhammad Asim Atif Bilal Aslam Ali Jamshed

Urban Climate, Volume 38, Article Number 100893

Impact Factor: 6.663 | **Quartile:** 1 | **Citations:** 76

DOI: 10.1016/j.uclim.2021.100893

An index-based approach for understanding gender preferences in active commuting: A case study of Islamabad, Pakistan

2021

Muhammad Hamza Baig Irfan Ahmad Rana Abdul Waheed

Case Studies on Transport Policy, Volume 9, Issue 2, Pages 600-607

Impact Factor: 0 | **Citations:** 2

DOI: 10.1016/j.cstp.2021.02.014

Determinants of people's seismic risk perception: A case study of Malakand, Pakistan

2021

Muhammad Irshad Qureshi Sibghat Ullah Khan Irfan Ahmad Rana Babar Ali Asad ur Rahman

International Journal of Disaster Risk Reduction, Volume 55, Article Number 102078

Impact Factor: 4.842 | **Quartile:** 1 | **Citations:** 22

DOI: 10.1016/j.ijdr.2021.102078

COVID-19 risk perception and coping mechanisms: Does gender make a difference?

2021

Irfan Ahmad Rana Saad Saleem Bhatti Atif Bilal Aslam Ali Jamshed Junaid Ahmad Ashfaq Ahmad Shah

International Journal of Disaster Risk Reduction, Volume 55, Article Number 102096

Impact Factor: 4.842 | **Quartile:** 1 | **Citations:** 138

DOI: 10.1016/j.ijdr.2021.102096

An Updated Earthquake Catalogue and Source Model for Seismic Hazard Analysis of Pakistan

2021

Asad ur Rahman Atif Rasheed Fawad Ahmed Najam Saeed Zaman Irfan Ahmad Rana Faheem Aslam Sibghat Ullah Khan

Arabian Journal for Science and Engineering, Pages 1-23

Impact Factor: 2.807 | **Quartile:** 2 | **Citations:** 8

DOI: <https://doi.org/10.1007/s13369-021-05439-4>

An updated probabilistic seismic hazard assessment (PSHA) for Pakistan

2021

Asad ur Rahman Fawad Ahmed Najam Saeed Zaman Atif Rasheed Irfan Ahmad Rana

Bulletin of Earthquake Engineering, Pages 1-38

Impact Factor: 4.556 | **Quartile:** 1 | **Citations:** 17

DOI: <https://doi.org/10.1007/s10518-021-01054-8>

Assessing school safety against natural and human-made hazards: A case study of Gilgit city, Pakistan

2020

Awais Ali Khan Irfan Ahmad Rana Fawad Ahmed Najam

Journal of Geography and Social Sciences, Volume 2(2), Pages 133-147

Impact Factor: 0

DOI: N.A.

Tourism and Disasters: A Systematic Review from 2010–2019

2020

Nida Naeem Irfan Ahmad Rana

Journal of Extreme Events, Volume 7(1-2), Article Number 2030001

Impact Factor: 0

DOI: 10.1142/S234573762030001X

Disaster and climate change resilience: A bibliometric analysis

2020

Irfan Ahmad Rana

International Journal of Disaster Risk Reduction, Volume 50, Article Number 101839

Impact Factor: 4.320 | **Quartile:** 1 | **Citations:** 99

- DOI: 10.1016/j.ijdr.2020.101839
- The effect of spatial proximity to cities on rural vulnerability against flooding: An indicator based approach** 2020
- Ali Jamshed Joern Birkmann Irfan Ahmad Rana Danial Feldmeyer*
Ecological Indicators , Volume 118, Article Number 106704
- Impact Factor:** 4.958 | **Quartile:** 2 | **Citations:** 41
- DOI: 10.1016/j.ecolind.2020.106704
- Gender-based emergency preparedness and awareness: empirical evidences from high-school students of Gilgit, Pakistan** 2020
- Awais Ali Khan Irfan Ahmad Rana Adnan Nawaz Abdul Waheed*
Environmental Hazards , Pages 1-16
- Impact Factor:** 1.827 | **Quartile:** 4 | **Citations:** 20
- DOI: 10.1080/17477891.2020.1839375
- The relevance of city size to the vulnerability of surrounding rural areas: An empirical study of flooding in Pakistan** 2020
- Ali Jamshed Joern Birkmann Irfan Ahmad Rana Joanna M. McMillan*
International Journal of Disaster Risk Reduction, Volume 48, Article Number 101601
- Impact Factor:** 4.320 | **Quartile:** 1 | **Citations:** 46
- DOI: 10.1016/j.ijdr.2020.101601
- How do rural-urban linkages change after an extreme flood event? Empirical evidence from rural communities in Pakistan** 2020
- Irfan Ahmad Rana Ali Jamshed Joern Birkmann Joanna McMillan Daniel Feldmeyer Holger Sauter*
Science of the Total Environment , Volume 750, Article Number 141462
- Impact Factor:** 7.963 | **Quartile:** 1 | **Citations:** 40
- DOI: 10.1016/j.scitotenv.2020.141462
- Characterizing flood risk perception in urban communities of Pakistan** 2020
- Irfan Ahmad Rana Ali Jamshed Zahid Irshad Younas Saad Saleem Bhatti*
International Journal of Disaster Risk Reduction, Volume 46, Article Number 101624
- Impact Factor:** 4.320 | **Quartile:** 1 | **Citations:** 85
- DOI: 10.1016/j.ijdr.2020.101624
- Effectiveness of flood early warning system from the perspective of experts and three affected communities in urban areas of Pakistan** 2020
- Irfan Ahmad Rana Saad Saleem Bhatti Ali Jamshed*
Environmental Hazards , Volume 19, Pages 1-21
- Impact Factor:** 1.827 | **Quartile:** 4 | **Citations:** 30
- DOI: 10.1080/17477891.2020.1751031
- A Conceptual Framework to Understand the Dynamics of Rural–Urban Linkages for Rural Flood Vulnerability** 2020
- Ali Jamshed Joern Birkmann Daniel Feldmeyer Irfan Ahmad Rana*
Sustainability , Volume 12, Issue 7, Article Number 2894
- Impact Factor:** 3.251 | **Quartile:** 2 | **Citations:** 54
- DOI: 10.3390/su12072894
- Gender-based approach for assessing risk perception in a multi-hazard environment: A study of high schools of Gilgit, Pakistan** 2020
- Adnan Nawaz Awais Ali Khan Irfan Ahmad Rana*
International Journal of Disaster Risk Reduction, Volume 44, Article Number 101427
- Impact Factor:** 4.320 | **Quartile:** 1 | **Citations:** 62
- DOI: 10.1016/j.ijdr.2019.101427
- Seismic vulnerability assessment of building stock of Malakand (Pakistan) using FEMA P-154 method** 2019
- Sibghat Ullah Khan Muhammad Irshad Qureshi Ahsen Maqsoom Sibghat Ullah Khan Muhammad Irshad Qureshi Irfan Ahmad Rana Ahsen Maqsoom*
SN Applied Sciences , Volume: 1, Issue: 12, Article Number: 1625
- Impact Factor:** 0 | **Citations:** 24
- DOI: 10.1007/s42452-019-1681-z
- An empirical relationship between seismic risk perception and physical vulnerability: A case study of Malakand, Pakistan** 2019
- Sibghat Ullah Khan Muhammad Irshad Qureshi Irfan Ahmad Rana Ahsen Maqsoom*

Impact Factor: 2.896 | **Quartile:** 2 | **Citations:** 30

DOI: 10.1016/j.ijdr.2019.101317

- Building community resilience in post-disaster resettlement in Pakistan** 2019
Ali Jamshed Irfan Ahmad Rana Joanna M. McMillan, Joern Birkmann
International Journal of Disaster Resilience in the Built Environment, Volume 10, Issue 4, Pages 301-315, Special Issue SI
Impact Factor: 0 | **Citations:** 29
DOI: 10.1108/IJDRBE-06-2019-0039
- Spatiotemporal dynamics of development inequalities in Lahore City Region, Pakistan** 2019
Irfan Ahmad Rana Jayant K. Routray Zahid Irshad Younas
Cities, Volume 96, Article Number 102418
Impact Factor: 4.802 | **Quartile:** 1 | **Citations:** 25
DOI: <https://doi.org/10.1016/j.cities.2019.102418>
- Determining Factors Influencing Residents' Satisfaction Regarding Urban Livability in Pakistan** 2019
Farrukh Baig Irfan Ahmad Rana Mir Aftab Hussain Talpur
International Journal of Community Well-Being, Volume 2, Issue 2, Pages 91-110
Impact Factor: 0 | **Citations:** 12
DOI: 10.1007/s42413-019-00026-w
- Assessing relationship between vulnerability and capacity: An empirical study on rural flooding in Pakistan** 2019
Ali Jamshed Irfan Ahmad Rana Usman Maqsood Mirza Joern Birkmann
International Journal of Disaster Risk Reduction, Volume 36, Article Number 101109
Impact Factor: 2.896 | **Quartile:** 2 | **Citations:** 79
DOI: 10.1016/j.ijdr.2019.101109
- Price risk management using forward contracts: the case of farmers in Pakistan** 2018
Shahab E. Saqib John K. M. Kuwornu Ubaid Ali Sanaullah Panezai Irfan Ahmed Rana
International Journal of Value Chain Management, Volume 9, Issue 3, Pages 241-256
Impact Factor: 0 | **Citations:** 11
DOI: 10.1504/IJVM.2018.093888
- Multidimensional Model for Vulnerability Assessment of Urban Flooding: An Empirical Study in Pakistan** 2018
Irfan Ahmad Rana Jayant K. Routray
International Journal of Disaster Risk Science, Volume 9, Issue 3, Pages 359–375
Impact Factor: 2.162 | **Quartile:** 2 | **Citations:** 126
DOI: 10.1007/s13753-018-0179-4
- Community participation framework for post-disaster resettlement and its practical application in Pakistan** 2018
Ali Jamshed Irfan Ahmad Rana Masood Ali Khan Nikhil Agarwal Ahsan Ali Mayank Ostwal
Disaster Prevention and Management, Volume: 27, Issue: 5, Pages 604-622
Impact Factor: 1.247 | **Quartile:** 3 | **Citations:** 32
DOI: 10.1108/DPM-05-2018-0161
- Integrated methodology for flood risk assessment and application in urban communities of Pakistan** 2018
Irfan Ahmad Rana Jayant K. Routray
Natural Hazards, Volume 91, Pages 239–266
Impact Factor: 2.319 | **Quartile:** 2 | **Citations:** 95
DOI: 10.1007/s11069-017-3124-8
- Lahore, Pakistan - Urbanization challenges and opportunities** 2018
Irfan Ahmad Rana Saad Saleem Bhatti
Cities, Volume 72, Part B, Pages 348-355
Impact Factor: 3.853 | **Quartile:** 1 | **Citations:** 115
DOI: 10.1016/j.cities.2017.09.014
- The spatial and temporal dynamics of infrastructure development disparity ? From assessment to analyses** 2017
Irfan Ahmad Rana Saad Saleem Bhatti Shahab e Saqib
Cities, Volume 63, Pages 20-32

Impact Factor: 2.704 | **Quartile:** 1 | **Citations:** 28
DOI: 10.1016/j.cities.2016.12.020

Assessing the socioeconomic and infrastructure development disparity - a case study of city districts of Punjab, Pakistan

2017

Irfan Ahmad Rana Saad Saleem Bhatti Hafiz Syed Hamid Arshad
International Journal of Urban Sustainable Development, Volume 9, Issue 3, Pages 151-163

Impact Factor: 0 | **Citations:** 20
DOI: 10.1080/19463138.2017.1320286

Changes in Vulnerability and Response Capacities of Rural Communities After Extreme Events: Case of Major Floods of 2010 and 2014 in Pakistan

2017

Ali Jamshed Irfan Ahmad Rana Joern Birkmann Obaidullah Nadeem
Journal of Extreme Events, Volume 04, Issue 03, Article No.1750013

Impact Factor: 0
DOI: 10.1142/S2345737617500130

Actual vis-a-vis perceived risk of flood prone urban communities in Pakistan

2016

Irfan Ahmad Rana Jayant K. Routray
International Journal of Disaster Risk Reduction, Volume 19, Pages 366-378

Impact Factor: 1.603 | **Quartile:** 2 | **Citations:** 125
DOI: 10.1016/j.ijdr.2016.08.028

An empirical assessment of farmers' risk attitudes in flood-prone areas of Pakistan

2016

Shahab E. Saqib Mokbul Morshed Ahmad Sanallah Panezai Irfan Ahmad Rana
International Journal of Disaster Risk Reduction, Volume 18, Pages 107-114

Impact Factor: 1.603 | **Quartile:** 2 | **Citations:** 93
DOI: 10.1016/j.ijdr.2016.06.007

A multi-scale modeling approach for simulating urbanization in a metropolitan region

2015

Saad Saleem Bhatti Nitin Kumar Tripathi Vilas Nitivattananon Irfan Ahmad Rana Chitrini Mozumder
Habitat International, Volume 50, Pages 354-365

Impact Factor: 2.029 | **Quartile:** 1 | **Citations:** 62
DOI: 10.1016/j.habitatint.2015.09.005

Conference Proceedings

Adaptation Planning for Flood Risk Reduction in Urban Areas of Pakistan.

2023

Hassam Bin Waseem Abdul Waheed Irfan Ahmad Rana
1st International Conference on Climate-Induced Disasters and Mitigation, res.country(177,)

Citations: N/A
DOI: Nil

Harnessing Nature-Based Solutions to Mitigate Urban Heatwaves

2023

Aimen Feroz Abdul Waheed Irfan Ahmad Rana
1st International Conference on Climate-Induced Disasters and Mitigation, res.country(177,)

Citations: N/A
DOI: Nil

Assessment of human heat vulnerability of different Local Climate Zones in Lahore Coupling remote sensing and socioeconomic data

2023

Nimra Iqbal Ayman Aslam Ali Jamshed Marvin Ravan Jörn Birkmann Irfan Ahmad Rana
2023 Joint Urban Remote Sensing Event, JURSE 2023, res.country(88,)

Citations: N/A
DOI: 10.1109/JURSE57346.2023.10144180

Book Chapters

Impact of Droughts Empirical Evidences from Thar Region, Pakistan

2020

Irfan Ahmad Rana Abdul Waheed Malik Asghar Naeem Anila Hayat

In: *Book on Drought Risk Management in South and South-East Asia*, 1st Edition, Chapter 5, Pages 96-112

Citations: N/A

DOI: <https://doi.org/10.4135/9789353885649>

Public and Private Sector Interventions in Post-disaster Resettlement: A Case Study of Model Villages in Pakistan

2020

Irfan Ahmad Rana Ali Jamshed Usman Maqsood Mirza

In: *Book on External Interventions for Disaster Risk Reduction*, Chapter 13, Pages 229-252

Citations: 3

DOI: [10.1007/978-981-15-4948-9_13](https://doi.org/10.1007/978-981-15-4948-9_13)

The Impact of Extreme Floods on Rural Communities: Evidence from Pakistan

2020

Ali Jamshed Joern Birkmann Joanna M. McMillan Irfan Ahmad Rana Hannes Lauer

In: *Book on Climate Change, Hazards and Adaptation Options*, Pages 585-613

Citations: 15

DOI: [10.1007/978-3-030-37425-9_30](https://doi.org/10.1007/978-3-030-37425-9_30)

Socioeconomic Vulnerability Assessment: A Case Study of Flood Prone Urban Communities of Pakistan

2019

Irfan Ahmad Rana Jayant K. Routray

In: *An Interdisciplinary Approach for Disaster Resilience and Sustainability*, Chapter 8, Pages 123-139

Citations: N/A

DOI: [10.1007/978-981-32-9527-8_8](https://doi.org/10.1007/978-981-32-9527-8_8)