



**Bangladesh Institute of Governance and Management**

# Research Catalogue

**2025**

# *Catalogue 2025*

## **Published in 2026**

### **Compilation Team**

Sultan Ahmed, PhD, Director	Advisor
Krishna Gayen, PhD, Senior Research Fellow	Member
Akhtaruzzaman Limon, Research Associate	Member
Arju Manara Begum, Research Associate	Member
Hurmetun Nesa Labiba, Research Associate	Member
Shirin Sultana, Research Associate	Member
Fatema Tuz Zuhra, Research Associate	Member
Afsana Akter, Research Associate	Member

### **Correspondence:**

E-mail: [info@bigm.edu.bd](mailto:info@bigm.edu.bd) & PABX: 880-2-223374040-44 (Ext: 108, 114, 115)

This document is available on the website: [www.bigm.edu.bd](http://www.bigm.edu.bd)

### **Printing and Knowledge Management**

Tarique Ahmad Halim, Librarian

### **BIGM Office**

Plot E-33, Sher-E-Bangla Nagar, Agargaon Administrative Area, Dhaka-1207

## ACRONYMS and ABBREVIATIONS

<b>AI</b>	: Artificial Intelligence
<b>ANN</b>	: Artificial Neural Network
<b>ARDL</b>	: Autoregressive Distributed Lag
<b>BIMSTEC</b>	: Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation
<b>BMJ</b>	: British Medical Journal
<b>BRICS</b>	: Brazil, Russia, India, China, and South Africa
<b>COVID-19</b>	: Coronavirus Disease 2019
<b>DEA</b>	: Data Envelopment Analysis
<b>DOAJ</b>	: Directory of Open Access Journals
<b>ECD</b>	: Early Childhood Development
<b>ECI</b>	: Economic Complexity Index (if applicable contextually)
<b>ESCI</b>	: Emerging Sources Citation Index
<b>FinTech</b>	: Financial Technology
<b>GIS</b>	: Geographic Information System
<b>GVAR</b>	: Global Vector Autoregression
<b>HR</b>	: Human Resources
<b>ICT</b>	: Information and Communication Technology
<b>IT</b>	: Information Technology
<b>LAPCM</b>	: Long Acting and Permanent Contraceptive Methods
<b>MICS</b>	: Multiple Indicator Cluster Survey
<b>ML</b>	: Machine Learning
<b>N-11</b>	: Next Eleven Countries
<b>OECD</b>	: Organisation for Economic Co-operation and Development
<b>OPEC</b>	: Organization of the Petroleum Exporting Countries
<b>PLS-SEM</b>	: Partial Least Squares Structural Equation Modeling
<b>PM<sub>2.5</sub></b>	: Particulate Matter (2.5 micrometers)
<b>QCA</b>	: Qualitative Comparative Analysis
<b>SCIE</b>	: Science Citation Index Expanded
<b>SDG</b>	: Sustainable Development Goals
<b>SEM</b>	: Structural Equation Modeling
<b>SOR</b>	: Stimulus-Organism-Response
<b>SSCI</b>	: Social Sciences Citation Index
<b>SVM</b>	: Support Vector Machine
<b>TAM</b>	: Technology Acceptance Model
<b>TPB</b>	: Theory of Planned Behavior
<b>TUS</b>	: Time Use Survey
<b>VAR</b>	: Vector Autoregression
<b>VECM</b>	: Vector Error Correction Model

# Research Overview of BIGM

The Bangladesh Institute of Governance and Management (BIGM) is a leading center for policy, governance, and development in the country. Through its core activities academics, training, and research, the institute serves the interests of the nation and its people. These activities are designed to provide strategic guidance and institutional support for public policy formulation and knowledge generation.

Guided by the Trust Deed of BIGM and the institute's research policy, researchers and faculty members have been conducting research on key national and global issues since 2017. By December 2025, BIGM's research portfolio had reached a total of 366 research projects. Among these, 217 research articles have been published in journals, including 127 in Q1, 39 in Q2, 11 in Q3, 8 in Q4 rankings and 32 in non-indexed journal. In addition, 8 book chapters and 4 conference papers were published. These achievements demonstrate the institute's sustained commitment to research and its evolving research agenda.

The Research Catalogue is an annual dossier of BIGM that provides information on the status of research projects, including those that are published, accepted, under review, completed, and ongoing. In 2025, BIGM researchers conducted a total of 107 research projects. Among these, 52 articles were published in peer-reviewed journals, including 37 in Q1 journals, 7 in Q2, 4 in Q3, 3 in Q4 journals, and one article was published in the BIGM Policy Journal. During the same period, one article was accepted for publication, 18 were under review, 12 were submitted to journals, and 3 studies were completed. Furthermore, two book chapters were published, while the remaining 19 research projects are ongoing.

BIGM strongly believes in collaboration, cooperation, and knowledge sharing to strengthen its research ecosystem. During the reported period, one research project sponsored by the Finance Division was completed. A joint research project is currently being conducted in collaboration with the Ministry of Public Administration (MoPA) and the Japan International Cooperation Agency (JICA). Furthermore, two research projects are being implemented under institutional grant support from the Social Science Research Council (SSRC) of the Planning Division, and one project is being implemented with research grant support from the Cabinet Division.

To enhance scholarly exchange and collaboration, BIGM operates a digital research platform, ReForm, which connects researchers from Bangladesh and those living abroad. The platform promotes knowledge sharing and cooperation through research-enabling training programs and webinars on various development issues.

In addition, BIGM organizes advanced methodological and analytical training programs to enhance the research capacity of young researchers, public and private sector professionals. These training programs include Research Methodology, Statistical and Data Analytics using STATA, R, and Python, as well as applications of Machine Learning.

Besides these, 309 policy-focused op-eds written by researchers and faculty members of BIGM were published in different national and international daily newspapers up to December 2025.

Through sustained inquiry, strategic partnerships, and a commitment to analytical excellence, BIGM continues to strengthen its role as a center of policy research, higher-level skill and knowledge generation for contributing to policy, governance and the broader development discourse of Bangladesh.

# Table of Contents

<b>GOVERNANCE AND POLICY .....</b>	<b>1</b>
<b>GROWTH, INVESTMENT AND HUMAN CAPITAL.....</b>	<b>2</b>
<b>ENERGY AND POWER.....</b>	<b>3</b>
<b>ENVIRONMENT AND CLIMATE CHANGE .....</b>	<b>4</b>
<b>HEALTH AND WELLBEING .....</b>	<b>6</b>
<b>DATA SCIENCE, AI AND MACHINE LEARNING .....</b>	<b>9</b>
<b>FINANCE AND ACCOUNTING .....</b>	<b>10</b>
<b>BUSINESS, TRADE AND MARKETING .....</b>	<b>12</b>
<b>HUMAN RESOURCE AND ORGANIZATIONAL DEVELOPMENT .....</b>	<b>12</b>
<b>GENDER AND SOCIETY .....</b>	<b>13</b>
<b>BOOK CHAPTER .....</b>	<b>14</b>
<b>SPONSORED/ COLLABORATIVE/GRANT-SUPPORTED RESEARCH PROJECTS .....</b>	<b>15</b>

## GOVERNANCE AND POLICY

Title and Authors	Journal/Others	Status	Rank and Index
Fostering Sustainable Digital Governance: Citizen Acceptance of Web-Portal-Based Integrated Platforms in Bangladesh through a TAM-TPB Approach. Md. Golam Faruque, Al-Amin, Mowshumi Sharmin, and Md. Mominur Rahman	Journal of Risk Analysis and Crisis Response, Vol. 15, No. 1, pages 19, 2025	Published	Q3, Scopus
Health Expenditure, Governance and SDG3 Nexus: A Longitudinal Analysis in BRICS Economies. Md. Mominur Rahman, Tasneem Islam Dyuti, Mohammad Tareque, and Mohammed Alnour	Globalization and Health, Vol. 21, No. 1, pages 18, 2025	Published	Q1, SCIE, SSCI
Digital Dynamics in Technology Adoption: Exploring Socio-Economic Development through Technology and Education. Md. Mominur Rahman and Md. Emran Hossain	Technology in Society, Vol. 82, pages 102906, 2025	Published	Q1, SSCI
Synergistic Effects of Energy Financing and Good Governance on Carbon Emissions Md. Mominur Rahman	Sustainable Futures, Vol. 9, pages 100739, 2025	Published	Q1, ESCI
Synergy of Governance, Finance, and Technology for Sustainable Natural Resource Management. Md. Mominur Rahman and Md. Emran Hossain	Journal of Open Innovation: Technology, Market, and Complexity, Vol. 11, No.1, pages 100468, 2025	Published	Q1, Scopus
Socio-Economic and Infrastructural Determinants of Road Accidents in Bangladesh. Fatema Tuz Zuhra and Shirin Sultana		Under Review	
Synergy between Institutional Quality and Technology Access for Driving Food Security in D-8 Countries: Unveiling the Moderating Role of Technology. Muhammad Raihan Uddin, Fuad Hasan, and Nafis Sadik		Submitted	
Migration Dynamics and Socioeconomic Impacts in Bangladesh. ASM Rafad Asgar		Ongoing	
The Dynamics of Budget Transparency, Institutional Quality, and Fiscal Sustainability in Bangladesh: A Time-Series Analysis Using VECM and VAR. Samira Tasnim and ASM Rafad Asgar		Ongoing	

## GROWTH, INVESTMENT AND HUMAN CAPITAL

Title and Authors	Journal/Others	Status	Rank and Index
Wealth-Based Inequalities in Early Childhood Development (ECD) Outcomes in Bangladesh: A Decomposition Analysis Using MICS 2019. Tasfia Tasneem Ahmed and Nafis Sadik	Plos Global Public Health, Vol. 5, No. 7, page e0004774, 2025	Published	Q1, Scopus, SSCI
Globalization, Physical Capital, and Human Capital Nexus with Economic Growth: Evidence from BIMSTEC. Muhammad Raihan Uddin, Nafis Sadik, and Md. Mominur Rahman	Research in Globalization, Vol. 10, pages 100284, 2025	Published	Q1, ESCI
The Impact of Returnee Migrants' Remittances on Reducing Household Inequality and Poverty in Bangladesh: A Micro-Level Study. Faroque Ahmed, Md. Monirul Islam, and Md. Moniruzzaman	Review of Development Economics, Vol. 29, No. 3, pages 1393-1415, 2025	Published	Q2
The Role of Institutions in Economic Growth: Analysis from 22 Asian Countries. Samira Tasnim and Nahian Rahman		Completed	
Behavioral Influences on Labor-Leisure Decisions: A Survey-Based Vignette Study in Bangladesh. Nahian Rahman, A S M Rafad Asgar, Samira Tasnim, Hurmetun Nesa Labiba, and Sultan Ahmed		Ongoing	
On Alternative Characterizations of Economic Choice. Nahian Rahman		Ongoing	
Urban Spatial Dynamics and Housing Affordability in Dhaka: Integrating Remote Sensing, GIS, and Accessibility Modelling. Mowtushi Poit, Shirin Sultana, Fatema Tuz Zuhra, and Hurmetun Nesa Labiba		Ongoing	
Urban Growth and Public Infrastructure Allocation: Are Growing Urban Areas Receiving Proportional Fiscal Support? A Measurement and Prediction for 12 City Corporations in Bangladesh. Fatema Tuz Zuhra and Sharfan Upaul		Ongoing	

## ENERGY AND POWER

Title and Authors	Journal/Others	Status	Rank and Index
US-China Bi-lateral Mineral Trade and Energy Transition in the Landscape of Global Value Chain Pressures, Geo-Economic Fragmentation and US-China Geopolitical risks. Md. Monirul Islam	Applied Energy, Vol. 399, Article 126506, 2025	Published	Q1, Scopus, SSCI
Financial Innovation and Clean Energy Technology Development: Policy Vs. Geopolitics. Md. Monirul Islam, Muhammad Shahbaz, and Kazi Sohag	Renewable Energy, Vol. 246, Article 122968, 2025	Published	Q1, Scopus, SSCI
Synergy of Energy Alternatives, FinTech, and Natural Resources on SDG13: Results from Panel QCA and Econometric Models. Md. Mominur Rahman, Tasfia Tasneem Ahmed, Nafisa Binte Farid Prova, and Sultan Ahmed	Discover Sustainability, Vol. 6, Article 13, 2025	Published	Q1, ESCI
Towards Sustainable Development: How Resource Depletion, Emissions, and Renewable Energy Shape Progress in OECD Nations. Ruikun Zhu, Hasibul Islam, Masud Rana, Khusbu Rahman, Rejaul Karim, Tamal Chakroborty, and Md. Mominur Rahman	Air Quality, Atmosphere & Health, Vol. 18, No. 10, pages 2923–2944, 2025	Published	Q2, SCIE
Decarbonizing Bangladesh: The Roles of Technological Innovation, Energy Transition, and Urban-Industrial Dynamics in Greenhouse Gas Emissions. Md Mehedi Hasan, Mahmud Hasan Riaz, Zobayer Ahmed, Sohidul Islam, Mohammad Sharif Uddin, Md Mustaqim Roshid, Mohammad Ridwan, and Filiz Guneyusu Atasoy	Environment, Innovation and Management, Vol. 1, pages 2550019, 2025	Published	Q4
Nonlinear Effects of ICT-Trade Openness on Sustainable Energy Transition in Bangladesh. Mahmud Hasan Riaz, Sohidul Islam, Zobayer Ahmed, Musa Khan, Md Mustaqim Roshid, Bablu Kumar Dhar, and Mohammad Sharif Uddin	Energy Policy, Vol. 206, pages 114784, 2025	Published	Q1, SCIE, SSCI
The Impact of Oil Price Shocks on Oil and Gas Production Amidst Geopolitical Risk in OPEC: Insights from Method of Moments Quantile Regression. Md. Saiful Islam, Faroque Ahmed, Md. Monirul Islam, Anis ur Rehman, and Md. Fakhre Alam	Journal of the Knowledge Economy, Vol. 16, No. 2, pages 9776-9805, 2025	Published	Q1, Scopus
Exploring Nexus Between Oil Price Shocks and Copper Production: Analysing the Role of Mineral Prices and Geopolitical Factors in Saudi Arabia. Md. Saiful Islam, Md. Monirul Islam, Faroque Ahmed, Anis ur Rehman, Md. Fakhre Alam, and Md. Aynul Islam	Computational Economics, pages 1-38, 2025	Published	Q1, Scopus, SSCI, SCI, SCIE

Title and Authors	Journal/Others	Status	Rank and Index
Emerging Asia's Move Towards a Net-Zero Path: The Interplay of Environmental Threats, Energy Systems Innovation, and Vulnerability. Constantin Gurdgiev, Kazi Sohag, and Md. Monirul Islam	Energy Economics, Vol. 150, Article 108864, 2025	Published	Q1, Scopus, SSCI
The Impact of Financial Stress, Governance, and Geopolitics on Europe's Energy Transition Mineral Trade. Oleg Mariev and Md. Monirul Islam	Energy Economics, Vol. 146, Article 108523, 2025	Published	Q1, Scopus, SSCI
Spillover Effects of Separated Oil Price Shocks on Regional Financial Stress Amidst Russia–Ukraine and Global Geopolitical Tensions: A Novel GVAR Approach. Faroque Ahmed and Kazi Sohag	Eurasian Economic Review, Vol. 15, No. 3, pages 593-639, 2025	Published	Q2, Scopus, ESCI
Financial Stability in G-20 Economies: Asymmetric Effects of Institutional Quality, Economic Policy Uncertainty, and Oil Price Shocks. Faroque Ahmed, Kazi Sohag, Oleg Mariev, and Md. Monirul Islam	Sustainable Futures, Vol. 10, pages 100962, 2025	Published	Q1, Scopus
International Mineral Trade-Cleaner Energy Transformation Nexus: How Decomposed Mineral Prices and Geopolitical Events Act? Md. Monirul Islam, Oleg Mariev, and Kazi Sohag	Energy Strategy Reviews, Vol. 59, Article 101699, 2025	Published	Q1, Scopus, SSCI
Navigating Turbulence: How Do Geopolitical Risks and Oil Price Shocks Shape Global Equity Markets? A GVAR Approach. Faroque Ahmed, Kazi Sohag, Md. Monirul Islam, and M Kabir Hassan	Borsa Istanbul Review, Vol. 25, No. 3, pages. 449-467, 2025	Published	Q1, Scopus, SSCI
G7 Financial Resilience: The Time-Varying Effects of Volatility in Global Oil Prices, Economic Policy, and Geopolitical Uncertainty. Faroque Ahmed, Kazi Sohag, and Md. Monirul Islam.		Under Review	

## ENVIRONMENT AND CLIMATE CHANGE

Title and Authors	Journal/Others	Status	Rank and Index
Nexus of Environmental Literacy and Green Behavior for Environmental Resilience in the Lens of SOR Theory. Md. Mominur Rahman, Md. Farijul Islam, Antik Debnath, and Md. Moniruzzaman.	Discover Sustainability, Vol. 6, Article 1101, 2025	Published	Q1, ESCI

Title and Authors	Journal/Others	Status	Rank and Index
Exploring Regional Air Pollution Transition Dynamics: A Multi-State Markov Model Approach. Md. Ismail Hossain, Shuvongkar Sarkar, Md. Injamul Haq Methun, and Azizur Rahman	PLOS ONE, Vol. 20, No. 10, 2025	Published	Q1, SCIE
Circular Economy Model and Sustainable Development Nexus in Bangladesh. Zobayer Ahmed, Sakib Mahmud, and Hakan Acet	International Journal of Sustainable Society, Vol. 17, No. 1, pages 33-49, 2025.	Published	Q3, ESCI
Circular Economy, Institutional Quality, and Sovereign Credit Risk Nexus: Evidence From European Countries. Mohammad Ashraf Ferdous Chowdhury, Muhammad Salah Uddin, Zobayer Ahmed, and Md Amirul Islam	Business Strategy and the Environment, Vol. 35, No. 2, pages 2469-2481, 2025.	Published	Q1
Militarization, Industrial Progress, and Their Carbon Footprints in North Atlantic Treaty Organization Countries: a Panel Econometric Analysis. MH Riaz, M Khan, Zobayer Ahmed, and SAM Zobair	Agricultural and Resource Economics Review, Vol. 54, No. 2, pages 552-581, 2025.	Published	Q2
The Role of Growth, Energy, and Resource Utilization in Ecological Footprints: Navigating BRICS + Environmental Challenges. Mahmud Hasan Riaz, Montasir Alam, Ayub Ali, Zobayer Ahmed, and Asif Raihan	Letters in Spatial and Resource Sciences, Vol. 18, No. 1, page 8, 2025.	Published	Q2
Resource-Driven Industrialization and Economic Growth in BRICS+: A Pathway to Sustainability or Environmental Tension? Mahmud Hasan Riaz, Montasir Alam, Ayub Ali, Zobayer Ahmed, Mohammad Sharif Uddin, and Asif Raihan	Sustainable Futures, Vol. 10, page 101136, 2025	Published	Q1
Nexus of Environmental Management Accounting, and Carbon Emission Management on Environmental, Social, and Governance Performance: Evidence from Symmetrical and Asymmetrical Approaches. Liu Xia, Nazneen Fatema, Md. Mominur Rahman, and Arman Hossain	Humanities and Social Sciences Communication s, Vol. 12, No. 1, pages 1-15, 2025	Published	Q1, SSCI
Impact of Agricultural Drought and Climate Change on Rice Yields in Northwestern Part of Bangladesh. Swadhin Das, Md. Tushar Ali, Fatema Tuz Zuhra, Santanu Banerjee, Md. Tajbir Morsalin, Kaniz Fatema, and Wafa Saleh Alkhuraji		Under Review	

Title and Authors	Journal/Others	Status	Rank and Index
A Comparative Study of Soil Fertility (Perceived vs. Actual) and Its Fertilizer Overexploitation in Manikganj, Bangladesh. Afsana Akter and Shirin Sultana		Ongoing	
Socio-demographic Barriers Affecting Organic Fertilizer Adoption Among Youth and Women Vegetable Farmers. Afsana Akter and Shirin Sultana		Ongoing	
Estimation of Urban Green Space & Its Relation to Air Quality. Hurmetun Nesa Labiba and Fatema Tuz Zuhra		Ongoing	
A Comparative Study Between National & International Climate Funds & Its' Implications in National Policy. Mowtushi Poit, Dr. Krishna Gayen, Fatema Tuz Zuhra, and Hurmetun Nesa Labiba		Ongoing	
Remote Sensing-Based Urban Heat Risk Index Using Spatially Weighted Transport Emission and Morphological Zones in Dhaka. Fatema Tuz Zuhra, Mowtushi Poit, Hurmetun Nesa Labiba, Muhammad Tanveer Islam, and Sultan Ahmed		Ongoing	

## HEALTH AND WELLBEING

Title and Authors	Journal/Others	Status	Rank and Index
Joint Modelling of Anthropometric Child Undernutrition Indicators to Identify Their Risk Factors in Bangladesh: Evidence from the Multiple Indicator Cluster Survey (MICS) 2019. R Amin, T Akter, R Ferdous, R Akter, MM Shahriar, and MA Islam	BMJ open, Vol. 15, No. 7, page e092536, 2025.	Published	Q1, SCIE, PubMed Central, Scopus
Determinants of Depression and Anxiety among Reproductive-Aged Women in Bangladesh: Insights from National Survey. Ahmed E, Md. Injamul Haq Methun, and Siam MR.	Journal of Affective Disorders, Vol. 390, page 119771, 2025.	Published	Q1, Scopus, ESCI
Synergy of Health Cost, Globalization and Good Health: Evidence from Emerging Economies. Md. Mominur Rahman, Tasneem Islam Dyuti, and Mohammad Tareque	Regional Science Policy & Practice, Vol. 17, No. 6, page 100183, 2025.	Published	Q2, ESCI
Nexus of Change Management and Effective Teaching During and Post-COVID-19 Pandemic: A PLS-SEM Approach. Mohammad Ekramol Islam, Md. Mominur Rahman, Serena Aktar, and Prince Das.	BIGM Journal of Policy Analysis, Vol. 2, No. 1, page 21, 2025	Published	

Title and Authors	Journal/Others	Status	Rank and Index
Multilevel Modeling of Hemoglobin Concentration among Children Aged 6–59 Months in South and Southeast Asian Countries. - R Amin and Md Atiqul Islam		Accepted	
Measuring and Improving Allocative Efficiency in Bangladesh’s Public Spending in the Health Sector: Evidence from a Mixed-Methods Study. Md. Injamul Haq Methun, Samira Tasnim, Nafis Sadik, A S M Rafad Asgar, Nasim Ahmed, Mohammad Tareque		Under Review	
Financial Burden of Illness in Bangladesh: Trends and Determinants of Catastrophic Health Expenditure. Ehsan Ahmed and Md. Injamul Haq Methun		Under Review	
Prevalence and Determinants of Miscarriages in Bangladesh: A Cross-Sectional Analysis from Bangladesh Demographic Health Survey 2022. Ehsan Ahmed and Md. Injamul Haq Methun		Under Review	
Disaster and Disparities: The Disaster-Driven Inequality in Quality Antenatal Care Uptake in Bangladesh. Md Injamul Haq Methun		Under Review	
The Mental Health Burden of Gendered Power Dynamics in Bangladesh: Evidence from a Fuzzy Logic-Based Doubly Robust Model. Md Injamul Haq Methun		Under Review	
Exploring the Association Between Bullying and Mental Well-being among Adolescents in Bangladesh: Findings from Nationally Representative Survey. R Amin and ASM Rafad Asgar		Under Review	
Investigating the Mediating Effect of Empowerment on Access to ICTs and Depression among Ever-Married Women in Bangladesh: A Generalized Structural Equation Modelling Approach. R Amin, Samira Tasnim, Bithi Rani Aiche, and ASM Rafad Asgar		Under Review	
Prevalence and Associated Factors of Long Acting and Permanent Contraceptive Methods (LAPCM) among Married Women of Reproductive Age in Bangladesh: Evidence from Three Nationally Represented Surveys. R Amin, Jamal Uddin.		Under Review	
Differential Impacts of Maternal Education and Wealth Status on Under-Five Mortality in Rural and Urban Areas of 47 Low- and Middle-Income Countries: A Survival Analysis Approach. R Amin, Md Atiqul Islam.		Under Review	

Title and Authors	Journal/Others	Status	Rank and Index
Crowding Out Effect of Out-of-Pocket Healthcare Expenditures for Microcredit Recipients in Bangladesh during Covid – 19 Pandemic. R Amin, Farabi M. N. S., Krishna Gayen, and Sima Rani Dey		Under Review	
What Drives Early Childhood Underweight? Insights from a Nationally Representative Survey in Bangladesh. Shirin Sultana, Nusrat Zahan Maliha, and Md. Muhitul Alam		Submitted	
The Influence of Tech-Savvy Leadership and HR Practices on Workforce Mental Health: Evidence from Bangladesh's IT Industry. Md. Mizanur Rahman and Sheikh AShiqurrahman Prince		Submitted	
Predicting Under-Five Mortality in Bangladesh Through Comparative Survival Analysis Using Traditional, Machine Learning, and Deep Learning Models. R Amin, W R Bristi, ASM R Asgar, and M A Mobin		Submitted	
A Vector Auto-regression Modeling Approach to Investigating the Causal Relationship Between Dengue Transmission and Meteorological Variables in Bangladesh. M A Mobin, ASM R Asgar, and R Amin		Submitted	
The Mental Health Burden of Gendered Power Dynamics in Bangladesh: Evidence from a Fuzzy Logic-Based Doubly Robust Model. Md. Injamul Haq Methun, Md. Ismail Hossain, Shuvongkar Sarkar, and Azizur Rahman		Submitted	
Spatial Auto-Correlation of Health Facilities in Bangladesh: A Two-stage DEA Approach. Md Injamul Haq Methun, Samira Tasnim, Nafis Sadik, and A S M Rafad Asgar		Submitted	
Sustainable Solutions for Dengue Vector Control in Dhaka: Challenges and Strategic Options. Indrani Dhar and Md Injamul Haq Methun		Submitted	
Patterns, Determinants, and Health Implications of Internal and International Migration in Bangladesh. ASM Rafad Asgar		Ongoing	
Can Reproductive Pressure Explain the High Burden of Mental Disorders Among Young Married Women in Bangladesh? Md Injamul Haq Methun		Ongoing	

Title and Authors	Journal/Others	Status	Rank and Index
Assessing the Impact of Women's Time Use Patterns on Life Satisfaction. Md Injamul Haq Methun		Ongoing	
Integrated Urban-Health Assessment through Modeling the Modulating Effect of Urban Geometry on Hourly PM <sub>2.5</sub> Dynamics: A Case Study for Tongi, Gazipur. Hurmetun Nesa Labiba, Fatema Tuz Zuhra, Muhammad Tanveer Islam, and Mowtushi Poit		Ongoing	

## DATA SCIENCE, AI AND MACHINE LEARNING

Title and Authors	Journal/Others	Status	Rank and Index
A Machine Learning Approach to Carbon Emissions Prediction of the Top Eleven Emitters by 2030 and Their Prospects for Meeting Paris Agreement Targets. Arju Manara Begum and M Al Mobin	Scientific Reports, Vol. 15, No. 1, pages 19469, 2025.	Published	Q1, Scopus, ESCI
Multivariate Forecasting of Dengue Infection in Bangladesh: Evaluating the Influence of Data Downscaling on Machine Learning Predictive Accuracy. M A Mobin	BMC Infectious Diseases, Vol. 25, No. 1, page 761, 2025	Published	Q1, Scopus, ESCI
PC-NCA: A Hybrid Feature Extraction Technique for Classification in Machine Learning. MT Islam, MA Mobin, and A Habib	Quality & Quantity, pages 1-31, 2025	Published	Q1, Scopus, ESCI
Integrating Landmarking and Competing Risks in Survival Analysis with Machine Learning Techniques. Shirin Sultana and Md Hasinur Rahaman Khan		Under Review	
Explainable Feature Selection in High-Dimensional Time Series: The Sequential Squeeze Algorithm for Predictive Accuracy and Interpretability. M A Mobin and M T Islam		Submitted	
SVM-SMT-NM: A Hybrid Balancing Technique for Imbalance Data. M T Islam, Arju Manara Begum, and M A Mobin		Submitted	
A Climate Informed Machine Learning Approach to Predict Malaria Infection of Bangladesh and Its Prospects for SDG Goals. M A Mobin and Arju Manara Begum		Submitted	
Predicting Performance, Informing Policy: Machine Learning Insights into SSC Outcomes in Bangladesh. Shirin Sultana		Ongoing	

## FINANCE AND ACCOUNTING

Title and Authors	Journal/Others	Status	Rank and Index
Unveiling the Nexus of Financial Inclusion and Political Stability for Capital Market Participation in South Asian Regions. Bithe Rani Aich, Mohammad Tareque, Tasfia Tasneem Ahmed, and Md. Mominur Rahman	Borsa Istanbul Review, Vol. 25, No. 6, pages 1101-1115, 2025	Published	Q1, SSCI
Testing the Modeling Relevance for Growth, Inflation, and Unemployment: Analysis using VAR, VECM, and ARDL. Bithe Rani Aich, Mohammad Tareque, and Md. Mominur Rahman	Quality and Quantity, pages 1-18, 2025	Published	Q1, Scopus, SSCI
Integrating Green Tax, Green Logistics, Green Climate Finance, Green Technology, and Sustainability for a Green Economy: SEM-ANN Approaches. Md. Mominur Rahman and Md. Emran Hossain	Sustainable Futures, Vol. 9, page 100795, 2025	Published	Q1, ESCI
Nexus of Digital Financial Service Adoption, Decent Work and Environmental Sustainability: Results from SEM-NCA Approaches. Md. Mominur Rahman and Nafis Sadik	Discover Sustainability, Vol. 6, No. 1, page 164, 2025	Published	Q1, ESCI
Spillover Effects of Global, Local, and Mutual Risks on Financial Stress: How Do Superpowers React? Faroque Ahmed, Kazi Sohag, Oleg Mariev, Rakibul Islam, Md. Ariful Alam, and Mahfuzur Rahman Shuvo	Chinese Political Science Review, pages 1-36, 2025	Published	Q1, Scopus, ESCI
Response of Financial Stress in Russia, China, and USA: the Role of Global Geopolitical and Economic Uncertainty. Faroque Ahmed, Kazi Sohag, and Oleg Mariev	R-Economy, Vol. 11, No. 1, pages 110-137, 2025	Published	Scopus
Assessing the Impact of Russian–Ukrainian Geopolitical Risks on Global Green Finance: A Quantile Dependency Analysis. Faroque Ahmed, Md. Monirul Islam, and Shujaat Abbas	Environmental Economics and Policy Studies, Vol. 27, No. 4, pages 615-641, 2025	Published	Q2, Scopus, ESCI

Title and Authors	Journal/Others	Status	Rank and Index
Assessing the Efficacy of Cash Incentive Policies in Enhancing Remittance Inflows: Evidence from Bangladesh. MNS Farabi, M Al Mobin, and KA Newaz	Plos One, Vol. 20, No. 2, pages e0318342, 2025	Published	Q1, Scopus, ESCI
Dynamic Impact of Economic and Climate Uncertainties on Financial Stress: Evidence from Germany, China, and Japan. Faroque Ahmed, Kazi Sohag, Md. Monirul Islam, and Oleg Mariev		Under Review	
Financial Burden of Illness in Bangladesh: Trends and Determinants of Catastrophic Health Expenditure. Md. Injamul Haq Methun		Under Review	
Inflation, Interest Rates, and Savings Behavior: A Unified Life-Cycle and Permanent Income Theory. Samira Tasnim		Completed	
Reassessing the Laffer Curve: Analyzing the Impact of Tax Rate on Tax Revenue. Samira Tasnim		Completed	
Unlocking Financial Potential: The Role of Asset-Backed Securitization on Financial Deepening in Bangladesh's Envolving Markets. Dr. Md. Abdul Latif, Mohd. Anisul Islam, Dr. Anwar Hossain Chowdhury, Shirin Sultana, Sanaullah Hasan, A.S.M Ahsan Habib, Md. Ismail Hossain		Ongoing	
Financial Sector Dynamics and Economic Growth: Bank Performance and Stock Market Activity in Emerging Asian Countries. Bithe Rani Aich, Mahadee Al Mobin		Ongoing	

## BUSINESS, TRADE AND MARKETING

Title and Authors	Journal/Others	Status	Rank and Index
The Influence of Entrepreneurial Qualities and Business Attitudes on Microfinance's Sustainable Business Growth: Evidence from Bangladesh. Sheikh Ashiqurrahman Prince, Tasfia Tasneem Ahmed, and Sayed Azharul Islam	Social Sciences & Humanities Open, Vol. 11, page 101659, 2025	Published	Q1, Scopus, DOAJ
Trade Policies and the Shadow Economy: The Nexus of Tariffs, Non-Tariff Barriers and Trade Freedom in N-11 Countries. Muhammad Salah Uddin, Abm Absar Hamid, Md Sahadat Hosain, Sajib Uddin Mamun, Md Roknuzzaman, Zobayer Ahmed, and Omar Faruque	East Asian Economic Review, Vol. 29, No. 3, pages 271-302, 2025	Published	Q4, ESCI
Exploring the Effects of Microfinance on Business Sustainability: A Qualitative Approach. Sayed Azharul Islam, Sheikh Ashiqurrahman Prince, and Nasim Ahmed	Journal of Poverty, pages 1-20, 2025	Published	Q2, Scopus, ESCI
Market Capitalization Dynamics: A Dual Approach Using Econometric and Machine Learning Models to Assess the Role of Market Liquidity and Macroeconomic Fundamentals. Bithe Rani Aich, Muhammad Tanveer Islam, and Nahian Rahman		Under Review	

## HUMAN RESOURCE AND ORGANIZATIONAL DEVELOPMENT

Title and Authors	Journal/Others	Status	Rank and Index
Environmental, Social, and Governance-driven Sustainable Tourism Management in Small and Medium Enterprises. Md. Mominur Rahman, Md. Farijul Islam, Md. Emran Hossain, Mohd Ziaur Rehman, and Abu Bakkar Siddik	International Journal of Sustainable Development & World Ecology, Vol. 32, No. 8, pages 988–1008, 2025	Published	Q1, SCIE

<b>Title and Authors</b>	<b>Journal/Others</b>	<b>Status</b>	<b>Rank and Index</b>
Role of Ethics, Meritocracy, and Professionalism in Public Sector Reforms: A Q Methodology Study. Dr. Munshi Muhammad Abdul Kader Jilani, Samira Tasnim, Nahian Rahman, A S M Rafad Asgar, and Nasim Ahmed		Under Review	

## **GENDER AND SOCIETY**

<b>Title and Authors</b>	<b>Journal/Others</b>	<b>Status</b>	<b>Rank and Index</b>
Unveiling the Veiled: An Empirical Analysis of Workplace Culture-Induced Incivility towards Women Officials in the Bangladesh Civil Service. Md. Monirul Islam, Md. Mazharul Islam, Mohammad Tareque, Fataraz Zahan, and Nuzhat Bulbul	Asian Women, Vol. 41, No. 3, pages 43-62, 2025	Published	Q3, Scopus, SSCI
Challenges and Strategic Options for Reducing Gender Inequities in Climate-Vulnerable Coastal Areas of Bangladesh. Mahbuba Rahman and Md. Injamul Haq Methun		Submitted	
Gendered Barriers to Active Transportation Around Metro Rail Stations: A GIS-Based Multi-Criteria Analysis. Hurmetun Nesa Labiba, Mowtushi Poit, and Fatema Tuz Zuhra		Ongoing	
Whether Urban People are More Conscious about Equitable Sharing of Domestic Responsibilities. Md. Injamul Haq Methun		Ongoing	
Gender Difference in Time Allocation to Paid and Unpaid Work in Bangladesh: Evidence from TUS 2022. Md. Injamul Haq Methun		Ongoing	
A Study on Rental Housing Dynamics in Puran Dhaka: Tenant Behavior and Prospects for Urban Development. Mowtushi Poit, Fatema Tuz Zuhra, and Hurmetun Nesa Labiba		Ongoing	



## BOOK CHAPTER

Title and Authors	Journal/Others	Status
Assessing the Economic Viability of AI in Environmental Management. Mohammad Haseeb, Md. Mominur Rahman, Mustafa Kamal, Sachin Ghai, and Neeru Sidana	AI-Driven Environmental Pollution Management, Springer, pages 197–222, 2025	Published
The Role of AI and Financial Stress in Enhancing Access and Equity in Transnational Higher Education: A Case Study in the UK. Faroque Ahmed and Kazi Sohag	IGI Global Scientific Publishing, pages 205-224, 2025	Published

## SPONSORED/ COLLABORATIVE/GRANT-SUPPORTED RESEARCH PROJECTS

Project Title and Research Team	Remarks
An Empirical Study on State Capacity and Public Policy Formulation and Implementation in Bangladesh. Research Team: Dr. Sultan Ahmed, Dr. Md. Golam Faruque, Dr. Zobayer Ahmed, Tasfia Tasneem Ahmed, Md. Mominur Rahman, Shirin Sultana.	Collaboration with MoPA and JICA. Agreement signed on 1.06.2025.
The Impact of Social Safety Net Programs on the Employment and Empowerment of Rural Women in Bangladesh. Research Team: Dr. Krishna Gayen, Ruhul Amin, Bithe Rani Aich.	Sponsored by Social Science Research Council (SSRC). Contract signed on 01.07.2024.
Improving Governance through the Application of Artificial Intelligence in Bangladesh. Research Team: Dr. Md. Golam Faruque, Md. Mominur Rahman, Shirin Sultana.	Sponsored by Social Science Research Council (SSRC). Contract signed on 10.11.2024.
Instituting Synchronized Referral Network in Health Service Governance: A Journey towards Smart Health Ecosystem in Bangladesh. Research Team: Dr. Md. Abdul Latif, Shirin Sultana.	Research grant from the Cabinet Division, GoB. Agreement signed on 30.04. 2025.

**Note:** Color denotation –

Published		Accepted		Under Review	
Submitted		Completed		Ongoing	

**Synopsis:** Total number of research papers 107, of which Published on Journal 52 (Q<sub>1</sub>-37, Q<sub>2</sub>-07, Q<sub>3</sub>-04, Q<sub>4</sub>-03, BIGM Journal – 01); Published Book Chapter 02; Accepted 01; Under Review 18; Submitted 12; Completed 03, and ongoing 19.

**Bangladesh Institute of Governance and Management**  
[www.bigm.edu.bd](http://www.bigm.edu.bd)