

Waqas Ahmed

Associate Professor

NUST Business School

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About

Dr. Waqas Ahmed is working as Associate Professor in the NUST Business School. Dr. Waqas Ahmed has a PhD in Industrial and Management Engineering. Dr. Waqas Ahmed has published 29 research articles & conference papers having a citation count of 1085, carried out 4 projects and filed 0 intellectual property.

Qualifications

PhD in Industrial and Management Engineering	2016 - 2018
Hanyang University , South Korea	
MBA in Operations Management	2009 - 2012
UET Lahore , Pakistan	
MS in Mechanical Engineering	2007 - 2009
Hanyang University , South Korea	
BS in Agricultural Engineering	2002 - 2006
University of Agriculture Faisalabad , Pakistan	
F.Sc in Science	2000 - 2002
Board of Intermediate and Secondary Education, Faisalabad , Pakistan	
Matric (SSC) in Science	1998 - 2000
Board of Intermediate and Secondary Education, Faisalabad , Pakistan	

Experience

Associate Professor	2024- Present
NUST Business School	
Associate Professor	2022 - 2024
NUST Business School	
Assistant Professor	2019 - 2022
NUST Business School	
Visiting Faculty	2014 - 2015
University of Central Punjab , Johar Town, Lahore	
Deputy Manager	2009 - 2016
Millat Tractors Ltd , 9 Km Shiekhupura Road, Lahore, Pakistan	
Research Assistant	2007 - 2009
SNU Automotive Lab , Seoul National University, South Korea	
Technical Development Officer	2006 - 2007
Dupont , Dupont, Pakistan	

Awards

PhD Best Thesis Award	2019
PhD Best Thesis Award by Hanyang University, South Korea	
Inter Department Sports	
Stood 1st in Inter Faculty Badminton Championship while representing Engineering Department UAF, as a Team Captain.	

Industry Projects

National Projects

Consultancy at Utility Stores Corporation on Improving supply chain operations

2023

Client: Utility Stores Corporation (Pvt) Ltd
Amount: PKR N/A
Status: Completed

Supplier Selection (Foreign/local) for Designing and Development of Electric Vehicle Platform

2023

Client: Titan Automotive (Pvt) Ltd
Amount: PKR 500,000.00
Status: Approved_inprocess

Professional development of employees on Supply Chain Management

2023

Client: OGDCL
Amount: PKR 140,000.00
Status: Completed

Supplier selection for designing and developing electric vehicle platform

2021

Client: N/A
Amount: PKR 200,000.00
Status: Approved_inprocess

International Projects

Research Articles

The Impact of Green Procurement Practices on the Competitiveness of Small and Medium Enterprises:
A Dual Mediation Model

2024

Nimra Safdar Muhammad Moazzam Waqas Ahmed Abdul Salam Wajiha Manzoor Muhammad Mustafa Raziq
Benchmarking: An International Journal, Pages: 24
Impact Factor: 4.500 | **Quartile:** 1
DOI: <https://www.emerald.com/insight/content/doi/10.1108/bij-04-2024-0297/full/html>

Innovate, learn, sustain: unveiling dynamics of value addition in smallholder dairy farming

2024

Muhammad Waqar Arshad Muhammad Moazzam Muhammad Mustafa Raziq Waqas Ahmed
Journal of Agribusiness in Developing and Emerging Economies, Pages:22
Impact Factor: 2.400 | **Quartile:** 2
DOI: 10.1108/JADEE-10-2023-0250

An inventory-based integrated model of a hybrid electricity supply chain for sustainable electricity
storage management

2024

Waqas Ahmed Saad Salman Muhammad Imran Mujtaba Hassan Agha Muhammad Moazzam
Journal of Energy Storage, Volume 83, Article Number:110746
Impact Factor: 8.900 | **Quartile:** 1 | **Citations:** 1
DOI: 10.1016/j.est.2024.110746

Green in-store operations and sustainability performance: the moderating role of organization size

2023

Sharfah Ahmad Qazi Muhammad Moazzam Waqas Ahmed Muhammad Mustafa Raziq
International Journal of Productivity and Performance Management, Volume:72, Issue:09, Pages 17
Impact Factor: 3.6 | **Quartile:** 2 | **Citations:** 4
DOI: doi/10.1108/IJPPM-01-2022-0017

Sustainable Technology Strategies for Transportation and Logistics Challenges: An implementation
Feasibility Study

2023

Muhammad Saleem Sumbal Waqas Ahmed Huzeifa Shahzeb Felix Chan
Sustainability MDPI, Volume 15(21), Article Number 15224
Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 8
DOI: <https://doi.org/10.3390/su152115224>

<p>The impact of reverse logistics process coordination on third party relationship quality: A moderated mediation model for multichannel retailers in the fashion industry</p> <p><i>Mahin Haq Muhammad Moazzam Abdul Salam Waqas Ahmed</i> <i>Journal of Retailing and Consumer Services</i>, Volume 73, Article Number 103362</p> <p>Impact Factor: 10.972 Quartile: 1 Citations: 14 DOI: https://doi.org/10.1016/j.jretconser.2023.103362</p>	2023
<p>Linking the willingness of smallholder dairy farmers to adopt minimum food safety and quality standards to the country's export potential</p> <p><i>Muhammad Waqar Arshad Muhammad Moazzam Muhammad Mustafa Raziq Waqas Ahmed</i> <i>International Journal of Food Science and Technology</i>, Pages 1-11</p> <p>Impact Factor: 3.3 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1111/ijfs.16539</p>	2023
<p>BR-174 highway, geo tourism and socio-environmental conflicts in the northern remote regions of the Amazon</p> <p><i>Zujaja Wahaj Waqas Ahmed Diogo Guedes Vidal Nelson Azevedo Barros Maria Alzira Pimenta Dini Ana Sibelonia Saldanha Vera</i> <i>GeoJournal</i>, Pages 1-13</p> <p>Impact Factor: 0 DOI: https://doi.org/10.1007/s10708-022-10699-0</p>	2022
<p>An inventory management for global supply chain through reworking of defective items having positive inventory level under multi-trade-credit-period</p> <p><i>Waqas Ahmed Muhammad Jalees Muhammad Omair Zainab Mukhtar Muhammad Imran</i> <i>Annals of Operations Research</i>, Pages 1-28</p> <p>Impact Factor: 4.854 Quartile: 1 Citations: 11 DOI: https://doi.org/10.1007/s10479-022-04646-y</p>	2022
<p>Geometric programming solution of second degree difficulty for carbon ejection controlled reliable smart production system</p> <p><i>Andreas Se Ho Kugele Waqas Ahmed Biswajit Sarkar</i> <i>RAIRO - Operations Research</i>, Volume 56, Number 2, Pages 1013-1029</p> <p>Impact Factor: 1.393 Quartile: 4 Citations: 38 DOI: https://doi.org/10.1051/ro/2022028</p>	2022
<p>Circular economy-driven two-stage supply chain management for nullifying waste</p> <p><i>Biswajit Sarkar Abhijit Debnath Anthony S.F. Chiu Waqas Ahmed</i> <i>Journal of Cleaner Production</i>, Volume 339, Article Number 130513</p> <p>Impact Factor: 11.1 Quartile: 1 Citations: 136 DOI: https://doi.org/10.1016/j.jclepro.2022.130513</p>	2022
<p>The Selection of the Sustainable Suppliers by the Development of a Decision Support Framework Based on Analytical Hierarchical Process and Fuzzy Inference System</p> <p><i>Muhammad Omair Sahar Noor Muhammad Tayyab Shahid Maqsood Waqas Ahmed Biswajit Sarkar Muhammad Salman Habib</i> <i>International Journal of Fuzzy Systems</i>, Pages 1-18</p> <p>Impact Factor: 4.085 Quartile: 2 Citations: 54 DOI: https://doi.org/10.1007/s40815-021-01073-2</p>	2021
<p>Synergic effect of reworking for imperfect quality items with the integration of multi-period delay-in-payment and partial backordering in global supply chains</p> <p><i>Waqas Ahmed Muhammad Moazzam Biswajit Sarkar Saif-ur-Rehman Biswajit Sarkar Saif-ur-Rehman</i> <i>Engineering</i>, Volume 7, Issue 2, Pages 260-271</p> <p>Impact Factor: 12.834 Quartile: 1 Citations: 81 DOI: https://doi.org/10.1016/j.eng.2020.07.022</p>	2021
<p>Reverse logistics network design of e-waste management under the triple bottom line approach</p> <p><i>Nimra Safdar Rabia Khalid Waqas Ahmed Muhammad Imran</i> <i>Journal of Cleaner Production</i>, Volume 272, Article Number 122662</p> <p>Impact Factor: 9.297 Quartile: 1 Citations: 88 DOI: https://doi.org/10.1016/j.jclepro.2020.122662</p>	2020
<p>Simultaneous Customers and Supplier's Prioritization: An AHP-Based Fuzzy Inference Decision Support System (AHP-FIDSS)</p> <p><i>Muhammad Imran Mujtaba Hassan Agha Waqas Ahmed Muhammad Babar Ramzan Biswajit Sarkar</i> <i>International Journal of Fuzzy Systems</i>, Pages 1-27</p>	2020

Impact Factor: 4.673 Quartile: 1 Citations: 23 DOI: https://doi.org/10.1007/s40815-020-00977-9	
Sustainable ordering policies for non-instantaneous deteriorating items under carbon emission and multi-trade-credit-policies <i>Sunil Tiwari Waqas Ahmed Biswajit Sarkar Sunil Tiwari Biswajit Sarkar</i> <i>Journal of Cleaner Production</i> , Volume 240, Article Number 118183 Impact Factor: 7.246 Quartile: 1 Citations: 101 DOI: 10.1016/j.jclepro.2019.118183	2019
Management of next-generation energy using a triple bottom line approach under a supply chain framework <i>Biswajit Sarkar Waqas Ahmed Biswajit Sarkar</i> <i>Resources Conservation and Recycling</i> , Volume 150, November 2019, 104431 Impact Factor: 8.086 Quartile: 1 Citations: 99 DOI: 10.1016/j.resconrec.2019.104431	2019
Stochastic-Petri Net Modeling and Optimization for Outdoor Patients in Building Sustainable Healthcare System Considering Staff Absenteeism <i>Chang Wook Kang Muhammad Imran Muhammad Omair Waqas Ahmed Misbah Ullah Biswajit Sarkar</i> <i>Mathematics</i> , Volume 7, Issue 6, Article Number 499 Impact Factor: 1.747 Quartile: 1 Citations: 24 DOI: 10.3390/math7060499	2019
Sustainable Inventory Management for Environmental Impact through Partial Backordering and Multi-Trade-Credit-Period <i>Biswajit Sarkar Waqas Ahmed Seok-Beom Choi Muhammad Tayyab</i> <i>Sustainability</i> , Volume 10, Issue 12, Article Number 4761 Impact Factor: 2.592 Quartile: 2 Citations: 41 DOI: 10.3390/su10124761	2018
Multi-item sustainable green production system under trade-credit and partial backordering <i>Sunil Tiwari Waqas Ahmed Biswajit Sarkar</i> <i>Journal of Cleaner Production</i> , Volume 204, Pages 82-95 Impact Factor: 6.395 Quartile: 1 Citations: 85 DOI: 10.1016/j.jclepro.2018.08.181	2018
Impact of reparation for imperfect quality items having shortages in the system under multi-trade-credit-period. <i>Waqas Ahmed Biswajit Sarkar Mehran Ullah</i> <i>DJ Journal of Engineering and Applied Mathematics</i> , Volume 5,, Issue 1, Pages 1-16 Impact Factor: 0 DOI: 10.18831/djmaths.org/2019011001	2018
Impact of carbon emissions in a sustainable supply chain management for a second generation biofuel <i>Waqas Ahmed Biswajit Sarkar</i> <i>Journal of Cleaner Production</i> , Volume 186, Pages 807-820 Impact Factor: 6.395 Quartile: 1 Citations: 169 DOI: 10.1016/j.jclepro.2018.02.289	2018
Joint effects of variable carbon emission cost and multi-delay-in-payments under single-setup-multiple-delivery policy in a global sustainable supply chain <i>Biswajit Sarkar Waqas Ahmed Namhun Kim</i> <i>Journal of Cleaner Production</i> , Volume 185, Pages 421-445 Impact Factor: 6.395 Quartile: 1 Citations: 104 DOI: 10.1016/j.jclepro.2018.02.215	2018

Conference Proceedings

- Application of Fuzzy FMEA to assess non-technical risks linked to a power station's operations** 2021
Yusma Sifwat Mahnoor Hameed Eeshah Ahsan Waqas Ahmed
First International Conference on Business, Management, and Social Sciences (ICBMASS) 2021, res.country(177,)
Citations: N/A
DOI: <https://icbmass.nust.edu.pk/>
- Green Supply-Chain Management and Sustainability Performance: Moderating Role of Organization Size** 2021
Sharfah Ahmad Qazi Muhammad Moazzam Waqas Ahmed Muhammad Mustafa Raziq
First International Conference on Business, Management, and Social Sciences (ICBMASS) 2021, res.country(177,)
Citations: N/A
DOI: [dx.doi.org/10.2139/](https://doi.org/10.2139/)
- Integration of Triple Sustainable Management by Considering the Multi-period Supply Chain for Next-Generation Fuel** 2020
Waqas Ahmed Biswajit Sarkar Mujtaba Hassan Agha
IFIP International Conference on Advances in Production Management Systems, res.country(189,)
Citations: N/A
DOI: https://doi.org/10.1007/978-3-030-57993-7_25
- Flexible cell formation and scheduling of robotics coordinated dynamic cellular manufacturing system: A gateway to industry 4.0** 2019
Abdul Saboor Muhammad Imran Mujtaba Hassan Agha Waqas Ahmed
International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,)
Citations: N/A
DOI: [10.1109/ICRAI47710.2019.8967369](https://doi.org/10.1109/ICRAI47710.2019.8967369)
- Effect of carbon tax and uncertainty in an economic policy for second generation biofuel supply chain** 2017
Waqas Ahmed Mitali Sarkar Biswajit Sarkar Sung-jun Kim
Conference of the Korean Institute of Industrial Engineers, res.country(121,)
Citations: N/A
DOI: N/A

Book Chapters

- Mountainous Environment in the Central Region of Mucajai, Roraima, Brazil: Citizen Science and Geotouristic Approaches** 2025
Ana Sibelonía Saldanha Veras Waqas Ahmed Nelson Azevedo Barros Maria Alzira Pimenta Dinis
In: *Composing Worlds: Humanities, Health and Wellbeing in the XXI Century Towards a More Sustainable World*, Chapter 15, Pages 215-232
Citations: N/A
DOI: https://doi.org/10.1007/978-3-031-87108-5_15

Editorial Activities

Environment, Development and Sustainability Reviewed Papers for Journals Impact Factor: 4.2	2025
PLOS ONE Reviewed Papers for Journals Impact Factor: 2.6	2025
Energy Reviewed Papers for Journals Impact Factor: 9.4	2025
Systems and Soft Computing Reviewed Papers for Journals Impact Factor: 0	2024
International Journal of Management Science and Engineering Management Reviewed Papers for Journals Impact Factor: 6.7	2024
International Journal of Fuzzy Systems Reviewed Papers for Journals Impact Factor: 4.3	2023
International Journal of Sustainability in Higher Education Reviewed Papers for Journals Impact Factor: 4.12	2023
International Journal of Production Research Reviewed Papers for Journals Impact Factor: 9.018	2023
 Reviewed Papers for Journals Impact Factor: 9.297	2022
 Reviewed Papers for Journals Impact Factor: 6.158	2022
 Reviewed Papers for Journals Impact Factor: 3.219	2021
 Reviewed Papers for Journals Impact Factor: 3.643	2021
 Reviewed Papers for Journals Impact Factor: 0	2021
 Reviewed Papers for Journals	2020
 Reviewed Papers for Journals Impact Factor: 0.03	2020
 Reviewed Papers for Journals Impact Factor: 7.044	2019
 Reviewed Papers for Journals	2019