

Muhammad Sadiq

Assistant Professor
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About

Dr. Muhammad Sadiq is working as Assistant Professor in the School of Interdisciplinary Engineering & Sciences. Dr. Muhammad Sadiq has a PhD in Engineering Systems and Management. Dr. Muhammad Sadiq has published 19 research articles & conference papers having a citation count of 147, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Engineering Systems and Management	2021 - 2024
Khalifa University , United Arab Emirates	
MS in Project Management	2014 - 2016
COMSATS Institute of Information Technology, Islamabad , Pakistan	

Experience

Assistant Professor	2025- Present
School of Interdisciplinary Engineering & Sciences	
Assistant Professor	2025 - 2025
School of Interdisciplinary Engineering & Sciences	
Research and Teaching Assistant	2021 - 2024
Khalifa University , Khalifa University, Abu Dhabi, United Arab Emirates	
Executive Project Engineer	2013 - 2020
Sui Northern Gas Company, Pakistan	
Researcher-II	2012 - 2013
King Saud University , King Saud University, Riyadh, Saudi Arabia	
Process Engineer	2010 - 2012
Associated Industries Limited, Pakistan	

Research Articles

Harvesting energy horizons: Bifacial PV and reversible fuel cells unite for sustainable building solutions	2025
Rahul Rajeevkumar Urs Muhammad Sadiq Raed Jaradat Ahmad Mayyas International Journal of Hydrogen Energy, Volume:141, Pages 394-405 Impact Factor: 8.300 Quartile: 1 DOI: https://doi.org/10.1016/j.ijhydene.2024.08.303	
Comprehensive techno-economic assessment of Green-Ammonia@Scale production	2025
Muhammad Sadiq Ahmad Mayyas Pedro R.R. Rochedo Cleaner Engineering and Technology, Volume:26, Article Number 100964 Impact Factor: 6.500 Quartile: 1 DOI: https://doi.org/10.1016/j.clet.2025.100964	
A standardized parametric framework for techno-economic analysis of renewable and clean energy systems	2025
Muhammad Sadiq Ahmad Mayyas Max Wei Renewable Energy, Volume 243, Article Number 122493 Impact Factor: 9.1000 Quartile: 1 DOI: https://doi.org/10.1016/j.renene.2025.122493	
Transitioning to a circular economy in the construction demolition industry: a bibliometric analysis	2024

<p><i>Muhammad Sadiq Malik Mansoor ali khalfan</i> <i>Built Environment Project and Asset Management</i>, Pages 1-17</p> <p>Impact Factor: 2.200 Quartile: 1 Citations: 1 DOI: https://doi.org/10.1108/BEPAM-12-2023-0216</p>	
<p>Electric vehicle batteries waste management and recycling challenges: a comprehensive review of green technologies and future prospects</p> <p><i>Hussein K. Amusa Muhammad Sadiq Gohar Alam Rahat Alam Abdelfattah Siefan Haider Ibrahim Ali Raza Banu Yildiz</i> <i>Journal of Material Cycles and Waste Management</i> , Volume:26, Issue:4, Pages 1959-1978</p> <p>Impact Factor: 3.000 Quartile: 3 Citations: 12 DOI: https://doi.org/10.1007/s10163-024-01982-y</p>	2024
<p>Techno-economic analysis of Green-H2@Scale production</p> <p><i>Muhammad Sadiq Reem Jamal Rahul Rajeevkumar Urs Ahmad T. Mayyas</i> <i>Renewable Energy</i> , Volume 219, Part 1, Article Number 119362</p> <p>Impact Factor: 9.000 Quartile: 1 Citations: 24 DOI: https://doi.org/10.1016/j.renene.2023.119362</p>	2023
<p>Techno-economic analysis of H2@Scale production from organic municipal solid waste</p> <p><i>Muhammad Sadiq Rahul Rajeevkumar Urs Ahmad Mayyas Mutasem El Fadel</i> <i>Energy Conversion and Management: X</i>, Volume:20, Article Number 100491</p> <p>Impact Factor: 7.100 Quartile: 1 Citations: 3 DOI: https://doi.org/10.1016/j.ecmx.2023.100491</p>	2023
<p>Sustainability assessment of renewable power generation systems for scale enactment in off-grid communities</p> <p><i>Muhammad Sadiq Phimsupha Kokchang Suthirat Kittipongvises</i> <i>Renewable Energy Focus</i> , Volume:46, Pages 323-337</p> <p>Impact Factor: 4.200 Quartile: 2 Citations: 11 DOI: https://doi.org/10.1016/j.ref.2023.07.006</p>	2023
<p>Comparative Techno-Economic Evaluation of a Standalone Solar Power System for Scaled Implementation in Off-Grid Areas</p> <p><i>Muhammad Sadiq Phimsupha Kokchang Suthirat Kittipongvises</i> <i>Energies</i> , Volume:16, Issue:17, Article Number 6262</p> <p>Impact Factor: 3.00 Quartile: 3 Citations: 4 DOI: https://doi.org/10.3390/en16176262</p>	2023
<p>Pre-cooling systems for hydrogen fueling stations: Techno-economic analysis for scaled enactment</p> <p><i>Muhammad Sadiq Muhammed Saeed Ahmad T. Mayyas Toufeq Mezher Mutasem El Fadel</i> <i>Energy Conversion and Management: X</i>, Volume:18, Article Number 100369</p> <p>Impact Factor: 7.100 Quartile: 1 Citations: 11 DOI: https://doi.org/10.1016/j.ecmx.2023.100369</p>	2023
<p>Technoeconomic Assessment of Various Configurations Photovoltaic Systems for Energy and Hydrogen Production</p> <p><i>Rahul Rajeevkumar Urs Muhammad Sadiq Ahmad Mayyas Ameena Al Sumaiti</i> <i>International Journal of Energy Research</i>, Volume:2023, Article ID 1612600, 13 pages</p> <p>Impact Factor: 4.300 Quartile: 1 Citations: 13 DOI: https://doi.org/10.1155/2023/1612600</p>	2023
<p>Design of the solar water heating system for local communities in Pakistan</p> <p><i>Muhammad Sadiq Ahmad T. Mayyas</i> <i>Cleaner Engineering and Technology</i> , Volume:8, Article Number 100496</p> <p>Impact Factor: N/A Citations: 7 DOI: https://doi.org/10.1016/j.clet.2022.100496</p>	2022
<p>Solar water heating system for residential consumers of Islamabad, Pakistan: A cost benefit analysis</p> <p><i>Muhammad Sadiq</i> <i>Journal of Cleaner Production</i> , Volume 172, Pages 2443-2453</p> <p>Impact Factor: 6.395 Quartile: 1 Citations: 42 DOI: https://doi.org/10.1016/j.jclepro.2017.11.166</p>	2018
<p>Cooling performance and energy saving analysis of cascade refrigeration system powered by solar energy for Riyadh region (Saudi Arabia)</p>	2014

Muhammad Sadiq Jamel Orfi
International Journal of Sustainable Building Technology and Urban Development, Volume:5, Issue:1, Pages 44-52
Impact Factor: N/A | Citations: 5
DOI: <https://doi.org/10.1080/2093761X.2013.875492>

“Biodegradable waste to biogas: Renewable energy option for the Kingdom of Saudi Arabia”.
International Journal of Innovation and Applied Studies;
Muhammad Sadiq Zakariya Kaneesamkandi
International Journal of Innovation and Applied Studies, Volume 4, Issue 1, Pages 101-113
Impact Factor: N/A
DOI: <http://www.ijias.issr-journals.org/abstract.php?article=IJIAS-13-142-18>

Conference Proceedings

<p>Sustainability and Climate Change Mitigation: A Framework for Kuwait Muhammad Sadiq Ahmad Mayyas Graduate Research Conference, Khalifa University, Abu Dhabi, United Arab Emirates, res.country(2,) Citations: N/A DOI: Nil</p>	2024
<p>Pre-cooling systems for hydrogen fueling stations: Techno-economic analysis for scaled enactment Muhammad Sadiq Ahmad Mayyas Graduate Research Conference, Khalifa University, Abu Dhabi, United Arab Emirates, res.country(2,) Citations: N/A DOI: https://www.ku.ac.ae/all-conferences</p>	2023
<p>Sustainable Development and Climate Change Mitigation Strategies for Kuwait Muhammad Sadiq Lea Issa D. Al Absi M. El Fadel Ahmad T. Mayyas 13th International Conference on Sustainable Energy and Environmental Protection, res.country(12,) Citations: N/A DOI: https://seepconference.com/</p>	2021