

Hafiz Muhammad Abdur Rehman

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School of Mechanical & Manufacturing Engineering
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About

Dr. Hafiz Muhammad Abdur Rehman is working as Assistant Professor in the School of Mechanical & Manufacturing Engineering. Dr. Hafiz Muhammad Abdur Rehman has a PhD in Civil and Environmental Engineering. Dr. Hafiz Muhammad Abdur Rehman has published 14 research articles & conference papers having a citation count of 190, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Civil and Environmental Engineering University of New South Wales , Australia	2019 - 2024
MS in Thermo-Fluids King Fahad University of Petroleum and Minerals , Saudi Arabia	2013 - 2016
BSc in Mech Engg UET Lahore , Pakistan	2008 - 2012

Experience

Assistant Professor School of Mechanical & Manufacturing Engineering	2025- Present
Assistant Professor School of Mechanical & Manufacturing Engineering	2024 - 2024
Lecturer School of Mechanical & Manufacturing Engineering	2024 - 2024
Lecturer School of Mechanical & Manufacturing Engineering	2019 - 2024
Lecturer School of Mechanical & Manufacturing Engineering	2016 - 2019

Awards

Best Poster Award Presented a poster titled as "Rain cycle inspired solar water purification system for remote communities" that won the best poster award at International School on Energy Systems (ISES 2017), a 1 week interdisciplinary seminar on energy systems, organized by Forschungs- zentrum Jülich in Germany.	2017
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Research Articles

Long-term performance of eight green wall plants in removing xenobiotic organic compounds from greywater across varied operational conditions Hafiz Muhammad Abdur Rehman Kefeng Zhang Ana Deletic Stuart J. Khan Veljko Prodanovic Journal of Water Process Engineering, Volume: 71, Article Number: 107142, Pages:12 Impact Factor: 6.3 Quartile: 1 Citations: 1 DOI: https://doi.org/10.1016/j.jwpe.2025.107142	2025
Praseodymium doped nickel oxide as hole-transport layer for efficient planar Perovskite Solar Cells Muhammad Tahir Hafiz Muhammad Abd ur Rehman Asif Hussain Mustafa Anwar Muhammad Adil Mansoor Faisal Abbas Sehar Shakir Optik , Volume:300, Article Number: 171630 Impact Factor: 3.1 Quartile: 2 Citations: 7 DOI: 10.1016/j.ijleo.2024.171630	2024

Techno-economic assessment of wind farm for sustainable power generation in Northern coastal region of Arabian sea <i>Muhammad Zaid Masood Khan Hafiz Muhammad Abdur Rehman Abdul Kashif Janjua Adeel Waqas Sehar Shakir Majid Ali</i> <i>Energy Reports</i> , Volume 9, Pages 1278-1290 Impact Factor: 4.937 Quartile: 2 Citations: 5 DOI: https://doi.org/10.1016/j.egyr.2022.12.057	2023
Prospects towards sustainability: A comparative study to evaluate the environmental performance of brick making kilns in Pakistan <i>Affan Rauf Sehar Shakir Amos Ncube Hafiz Muhammad Abdur Rehman Abdul Kashif Janjua Saeeda Khanum Asif Hussain</i> <i>Environmental Impact Assessment Review</i> , Volume 94, Article Number 106746 Impact Factor: 7.9 Quartile: 1 Citations: 18 DOI: https://doi.org/10.1016/j.eiar.2022.106746	2022
Performance Analysis of Calcium-Doped Titania (TiO₂) as an Effective Electron Transport Layer (ETL) for Perovskite Solar Cells <i>Zafar Arshad Sehar Shakir Asif Hussain Khoja Ahad Hussain Javed Mustafa Anwar Abdur Rehman Rahat Javaid Umair Yaqoob Qazi Sarah Farrukh</i> <i>Energies</i> , Volume 15(4), Article Number 1408 Impact Factor: 3.004 Quartile: 3 Citations: 20 DOI: https://doi.org/10.3390/en15041408	2022
Techno-economic assessment of concentrated solar thermal power generation and potential barriers in its deployment in Pakistan <i>Saad Tahir Muhammad Ahmad Hafiz Muhammad Abdur Rehman Saad Tahir Muhammad Ahmad Sehar Shakir</i> <i>Journal of Cleaner production</i> , Volume 293, Article Number 126125 Impact Factor: 11.072 Quartile: 1 Citations: 58 DOI: https://doi.org/10.1016/j.jclepro.2021.126125	2021
Multistep electrophoretic deposition of TiO₂ film and its surface modification for dye sensitized solar cells <i>Sehar Shakir Hafiz Muhammad Abd-ur-Rehman Rehan Zahid Mitsumasa Iwamoto Vengadesh Periasamy</i> <i>Journal of Alloys and Compounds</i> , Volume 837, Article Number 155579 Impact Factor: 5.316 Quartile: 1 Citations: 16 DOI: 10.1016/j.jallcom.2020.155579	2020
The potential of energy savings and the prospects of cleaner energy production by solar energy integration in the residential buildings of Saudi Arabia <i>Hafiz M. Abd-ur-Rehman Sehar Shakir Fahad A. Al-Sulaiman Aamir Mehmood Muhammad Umer</i> <i>Journal of Cleaner Production</i> , Volume 183, Pages 1113-1122 Impact Factor: 6.395 Quartile: 1 DOI: https://www.sciencedirect.com/journal/journal-of-cleaner-production	2018
Fabrication of un-doped and magnesium doped TiO₂ films by aerosol assisted chemical vapor deposition for dye sensitized solar cells <i>Sehar Shakir Hafiz M. Abd-ur-Rehman Kamran Yunus Mitsumasa Iwamoto Vengadesh Periasamy</i> <i>Journal of Alloys and Compounds</i> , - Impact Factor: 4.175 Quartile: 1 Citations: 51 DOI: 10.1016/j.jallcom.2017.12.165	2018
Electro-catalytic and structural studies of DNA templated gold wires on platinum/ITO as modified counter electrode in dye sensitized solar cells <i>Sehar Shakir Yiing Yee Foo Nastaran Rizan Hafiz M. Abd-ur-Rehman Kamran Yunus Phang Siew Moi Vengadesh Periasamy</i> <i>Journal of Materials Science: Materials in Electronics</i> , Volume 29, Issue 6, Pages 4602-4611 Impact Factor: 2.324 Quartile: 2 Citations: 8 DOI: 10.1007/s10854-017-8411-3	2018
A novel design of a multistage stepped bubble column humidifier for the humidification of air <i>Hafiz M. Abd-ur-Rehman Fahad A. Al-Sulaiman</i> <i>Applied Thermal Engineering</i> , NULL Impact Factor: 3.771 Quartile: 2 DOI: https://www.sciencedirect.com/science/article/pii/S1359431117323037	2017
Experimental investigation of a bubble column humidifier heated through solar energy <i>Fahad A. Al-Sulaiman Hafiz M. Abd-ur-Rehman Mohamed A. Antar Obaidallah Munteshari</i> <i>Desalination and Water Treatment</i> , Volume 60, Pages 58-69	2017

Impact Factor: 1.383 | **Quartile:** 3 | **Citations:** 6
DOI: 10.5004/dwt.2017.0086

An experimental investigation of a novel design air humidifier using direct solar thermal heating

2016

Hafiz M. Abd-ur-Rehman Fahad A. Al-Sulaiman
Energy Conversion and Management, NULL

Impact Factor: 5.589 | **Quartile:** 1

DOI: <https://www.sciencedirect.com/science/article/pii/S0196890416308524>

Optimum selection of solar water heating (SWH) systems based on their comparative techno-economic feasibility study for the domestic sector of Saudi Arabia

2016

Hafiz M. Abd-ur-Rehman Fahad A. Al-Sulaiman
Renewable and Sustainable Energy Reviews, NULL

Impact Factor: 8.050 | **Quartile:** 1

DOI: <https://www.sciencedirect.com/science/article/pii/S1364032116300806>

Editorial Activities

2019

Reviewed Papers for Journals

Impact Factor: 6.019