

Mohammad Mutee Ur Rehman

Assistant Professor

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About

Dr. Mohammad Mutee Ur Rehman is working as Assistant Professor in the School of Mechanical & Manufacturing Engineering. Dr. Mohammad Mutee Ur Rehman has a PhD in ELECTRONIC ENGINEERING. Dr. Mohammad Mutee Ur Rehman has published 15 research articles & conference papers having a citation count of 526, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in ELECTRONIC ENGINEERING Cheju National University , South Korea	2019 - 2023
MS in MECHATRONICS ENGINEERING Cheju National University , South Korea	2016 - 2018
BE in MECHATRONICS ENGINEERING Air University , Pakistan	2010 - 2014

Experience

Assistant Professor School of Mechanical & Manufacturing Engineering	2023- Present
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Research Articles

A Sustainable and Flexible Carbon Paper-Based Multifunctional Human–Machine Interface (HMI) Sensor <i>Maryam Khan Muhammad Muqeet Rehman Mohammad Mutee Ur Rehman Muhammad Saqib Shahzad Iqbal Sang Seop Lim Kun Hyun Park Woo Young Kim</i> <i>Polymers</i> , Volume 17(1), Article Number 98 Impact Factor: 4.700 Quartile: 1 Citations: 8 DOI: https://doi.org/10.3390/polym17010098	2025
Edible rice paper-based multifunctional humidity sensor powered by triboelectricity <i>Hafiz Mohammad Mutee Ur Rehman Asokan Poorani Sathya Prasanna Muhammad Muqeet Rehman Maryam Khan Sang-Jae Kim Woo Young Kim</i> <i>Sustainable Materials and Technologies</i> , Volume 36, Article Number e00596 Impact Factor: 9.6 Quartile: 1 Citations: 63 DOI: 10.1016/j.susmat.2023.e00596	2023
High-performance humidity sensor for multipurpose applications by recycling of potato peel bio-waste <i>Hafiz Mohammad Mutee Ur Rehman Maryam Khan Muhammad Muqeet Rehman Shenawar Ali Khan Woo Young Kim</i> <i>Sensors and Actuators A: Physical</i> , Volume 343, Article Number 113662 Impact Factor: 4.6 Quartile: 1 Citations: 28 DOI: 10.1016/j.sna.2022.113662	2022
All-Printed Flexible Memristor with Metal–Non-Metal-Doped TiO₂ Nanoparticle Thin Films <i>Maryam Khan Hafiz Mohammad Mutee Ur Rehman Rida Tehreem Muhammad Saqib Muhammad Muqeet Rehman Woo Young Kim</i> <i>Nanomaterials</i> , Volume 12, Issue 13, Article Number 2289 Impact Factor: 5.3 Quartile: 1 Citations: 27 DOI: 10.3390/nano12132289	2022
A full-range flexible and printed humidity sensor based on a solution-processed p(Vdf-trfe)/graphene-flower composite <i>Shenawar Ali Khan Muhammad Saqib Muhammad Muqeet Rehman Hafiz Mohammad Mutee Ur Rehman Sheik Abdur Rahman Yunsook Yang Seongwan Kim Woo Young Kim</i> <i>Nanomaterials</i> , Volume 11, Issue 8, Article Number 1915 Impact Factor: 5.719 Quartile: 1 Citations: 32	2021

DOI: 10.3390/nano11081915

Highly efficient and wide range humidity response of biocompatible egg white thin film

2021

Hafiz Mohammad Mutee Ur Rehman Muhammad Muqeet Rehman Muhammad Saqib Shenawar Ali Khan Maryam Khan Yunsook Yang Seongwan Kim
Sheik Abdur Rahman Woo Young Kim
Nanomaterials , Volume 11, Issue 7, Article Number 1815

Impact Factor: 5.719 | **Quartile:** 1 | **Citations:** 28

DOI: <https://doi.org/10.3390/nano11071815>

High-performance humidity sensor based on the graphene flower/zinc oxide composite

2021

Muhammad Saqib Shenawar Ali Khan Hafiz Mohammad Mutee Ur Rehman Yunsook Yang Seongwan Kim Muhammad Muqeet Rehman Woo Young Kim
Nanomaterials , Volume 11, Issue 1, Article Number 242

Impact Factor: 5.719 | **Quartile:** 1 | **Citations:** 41

DOI: 10.3390/nano11010242

Electroforming-free flexible organic resistive random access memory based on a nanocomposite of poly(3-hexylthiophene-2,5-diyl) and orange dye with a low threshold voltage

2020

Syed Sibtul Hassan Sherazi Muhammad Muqeet Rehman Hafiz Mohammad Mutee Ur Rehman Woo Young Kim Ghayas Uddin Siddiqui Khasan S Karimov
Semiconductor Science and Technology , Volume 35, Issue 12, Article Number 125012

Impact Factor: 2.352 | **Quartile:** 3 | **Citations:** 12

DOI: 10.1088/1361-6641/abbaf0

Encapsulation of polyvinyl alcohol based flexible temperature sensor through spatial atmospheric atomic layer deposition system to enhance its lifetime

2019

Soo Wan Kim Muhammad Muqeet Rehman Memoon Sajid Hafiz Mohammad Mutee ur Rehman Jahanzeb Gul Jeong Dai Jo Kyung Hyun Choi
Thin Solid Films , Volume 673, Pages 44-51

Impact Factor: 2.030 | **Quartile:** 3 | **Citations:** 28

DOI: <https://doi.org/10.1016/j.tsf.2019.01.034>

Significance of encapsulating organic temperature sensors through spatial atmospheric atomic layer deposition for protection against humidity

2018

Hafiz Mohammad Mutee Ur Rehman Muhammad Muqeet Rehman Memoon Sajid Jae-Wook Lee Kyoung Hoan Na Jeong Beom Ko Kyung Hyun Choi
Journal of Materials Science: Materials in Electronics , Volume 29, Issue 17, Pages 14396-14405

Impact Factor: 2.195 | **Quartile:** 2 | **Citations:** 18

DOI: 10.1007/s10854-018-9572-4

2D nanocomposite of hexagonal boron nitride nanoflakes and molybdenum disulfide quantum dots applied as the functional layer of all-printed flexible memory device

2018

Muhammad Muqeet Rehman Ghayas Uddin Siddiqui Hafiz Mohammad Mutee Ur Rehman Hyun Bum Kim Yang Hoi Doh Kyung Hyun Choi
Materials Research Bulletin , Volume 105, Pages 28-35

Impact Factor: 3.355 | **Quartile:** 2 | **Citations:** 21

DOI: <https://doi.org/10.1016/j.materresbull.2018.02.027>

Atmospheric deposition process for enhanced hybrid organic–inorganic multilayer barrier thin films for surface protection

2017

Hafiz Mohammad Mutee Ur Rehman Kwang Tae Kim Kyoung Hoan Na Kyung Hyun Choi
Applied Surface Science , Volume 422, Pages 273-282

Impact Factor: 4.439 | **Quartile:** 1 | **Citations:** 18

DOI: 10.1016/j.apsusc.2017.05.261

Book Chapters

Chapter 20 - Nanomaterials in humidity sensors

2024

Muhammad Muqeet Rehman Maryam Khan Mohammad Mutee Ur Rehman Ghayas Uddin Siddiqui Zubair Ahmad Kamran Ali Shenawar Ali Khan
Muhammad Saqib Jahanzeb Gul Woo Young Kim

In: *Handbook of Nanomaterials: Electronics, Information Technology, Energy, Transportation, and Consumer Products: Volume 1*, Chapter 20, Pages Pages 513-566

Citations: 15

DOI: <https://doi.org/10.1016/B978-0-323-95511-9.00027-5>

