Mohammad Mutee Ur Rehman

Assistant Professor

School of Mechanical & Manufacturing Engineering

Email: muhammad.mutee@smme.nust.edu.pk

Contact: 0000000000



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 2023- Present

School of Mechanical & Manufacturing Engineering

Research Articles

A Sustainable and Flexible Carbon Paper-Based Multifunctional Human-Machine Interface (HMI) Sensor

2025

Maryam Khan Muhammad Muqeet Rehman Mohammad Mutee Ur Rehman Muhammad Sagib Shahzad Igbal Sang Seop Lim Kun Hyun Park Woo Young Kim

Polymers, Volume 17(1), Article Number 98 Impact Factor: 4.700 | Quartile: 1 | Citations: 8 DOI: https://doi.org/10.3390/polym17010098

Edible rice paper-based multifunctional humidity sensor powered by triboelectricity

2023

Hafiz Mohammad Mutee Ur Rehman Asokan Poorani Sathya Prasanna Muhammad Muqeet Rehman Maryam Khan Sang-Jae Kim Woo Young Kim Sustainable Materials and Technologies, Volume 36, Article Number e00596

Impact Factor: 9.6 | Quartile: 1 | Citations: 63 DOI: 10.1016/j.susmat.2023.e00596

High-performance humidity sensor for multipurpose applications by recycling of potato peel bio-waste

2022

Hafiz Mohammad Mutee Ur Rehman Maryam Khan Muhammad Muqeet Rehman Shenawar Ali Khan Woo Young Kim Sensors and Actuators A: Physical, Volume 343, Article Number 113662

Impact Factor: 4.6 | Quartile: 1 | Citations: 28

DOI: 10.1016/j.sna.2022.113662

All-Printed Flexible Memristor with Metal-Non-Metal-Doped TiO2 Nanoparticle Thin Films

2022

Maryam Khan Hafiz Mohammad Mutee Ur Rehman Rida Tehreem Muhammad Sagib Muhammad Muqeet Rehman Woo Young Kim

Nanomaterials, Volume 12, Issue 13, Article Number 2289

Impact Factor: 5.3 | Quartile: 1 | Citations: 27

DOI: 10.3390/nano12132289

A full-range flexible and printed humidity sensor based on a solution-processed p(Vdf-trfe)/graphene-

2021

flower composite

Shenawar Ali Khan Muhammad Saqib Muhammad Muqeet Rehman Hafiz Mohammad Mutee Ur Rehman Sheik Abdur Rahman Yunsook Yang Seongwan Kim Woo Young Kim

Nanomaterials, Volume 11, Issue 8, Article Number 1915

Impact Factor: 5.719 | Quartile: 1 | Citations: 32

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

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

2020

poly(3-hexylthiophene-2,5-diyl) and orange dye with a low threshold voltage

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 Sagib 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

2021

Editorial Activities

Journal of Alloys and Compounds

Reviewed Papers for Journals

Impact Factor: 5.8

2024