# Tayyaba Noor


Associate Professor

School of Chemical & Materials Engineering

**Email:** tayyaba.noor@scme.nust.edu.pk
**Contact:** 0512300519
**LinkedIn:**


## About

Dr. Tayyaba Noor is working as Associate Professor in the School of Chemical & Materials Engineering. Dr. Tayyaba Noor has a PhD in Chemical Engineering. Dr. Tayyaba Noor has published 163 research articles & conference papers having a citation count of 5827, carried out 5 projects and filed 0 intellectual property.

## Qualifications

**PhD in Chemical Engineering** 2008 - 2013
Norwegian University of Science and Technology , Norway

**MPhil in Chemistry** 2004 - 2006
Quaid-i-Azam University , Pakistan

**MSc in Chemistry** 2002 - 2004
Quaid-i-Azam University , Pakistan

## Experience

**Associate Professor** 2025- Present
School of Chemical & Materials Engineering

**Associate Professor** 2024 - 2024
School of Chemical & Materials Engineering

**Associate Professor** 2022 - 2019
School of Chemical & Materials Engineering

**Associate Professor** 2019 - 2025
School of Chemical & Materials Engineering

**Assistant Professor** 2014 - 2006
School of Chemical & Materials Engineering

**Lecturer** 2006 - 2022
School of Chemical & Materials Engineering

**Researcher** 2013 - 2014
Norwegian University of Science and Technology (NTNU) , Department of Chemical Engineering, Norwegian University of Science and Technology (NTNU), Norway

## Awards

**School / College Best Researcher Awards-2021** 2022

**Best Teacher Award** 2016
Best Teacher Award Academic year 2016

**Gold Medalist**
Gold Medalist M. Sc Chemistry, Quaid-iAzam University Islamabad

## Research Projects

### National Projects

**Development of high performance electrode and electrolyte materials for beyond Li-ion batteries.** 2023
**Funding Agency:** NUST
**Amount:** PKR 18,000,000.00
**Status:** Completed

**Designing next generation high energy density Li-based batteries and advanced supercapacitors** 2021
**Funding Agency:** HEC
**Amount:** PKR 4,500,000.00
**Status:** Completed

**Synthesis and characterization of highly stable and efficient non precious metal catalyst for photo-electrochemical water splitting: A step towards clean energy** 2019
**Funding Agency:** HEC
**Amount:** PKR 7,690,000.00
**Status:** Completed

**Development of metal organic framework (MOFs) based sorbents for hydrogen storage and CO 2 capture applications** 2017
**Funding Agency:** HEC
**Amount:** PKR 9,850,000.00
**Status:** Completed

**Novel Materials for Secondary Sodium-ion Batteries and Proton Exchange Membrane Fuel Cells** 2017
**Funding Agency:** PSF
**Amount:** PKR 1,900,000.00
**Status:** Completed

### International Projects

## Research Articles

**Reducing the grain boundary resistance by Al and Gd co-doping in LLZO-based solid-state electrolyte for lithium batteries** 2025
*Haseeb Ahmad Faiza Jan Iftikhar Tayyaba Noor Ghulam M. Mustafa Shahid M. Ramay Ghulam Ali*
*Ceramics International* , Volume:51, Issue:19, Pages 27699-27706
**Impact Factor:** 5.600 | **Quartile:** 1
**DOI:** 10.1016/j.ceramint.2025.03.443

**α-MnO2@ZIF-67 as bifunctional electrocatalyst for air cathode in high performance rechargeable zinc-air batteries** 2025
*Rimsha Mehek Naseem Iqbal Tayyaba Noor*
*Journal of Power Sources*, Volume:641, Article Number 236859
**Impact Factor:** 8.100 | **Quartile:** 1 | **Citations:** 2
**DOI:** https://doi.org/10.1016/j.jpowsour.2025.236859

**Pyrolysis of lignite coal and waste tires for liquid fuel production** 2025
*Asif Khan Naseem Iqbal Tayyaba Noor Ali Iqtidar Najam Khan*
*Journal of the Energy Institute*, Volume 120, Article Number 102065
**Impact Factor:** 5.700 | **Quartile:** 2 | **Citations:** 1
**DOI:** https://doi.org/10.1016/j.joei.2025.102065

**Optimization of ionic conductivity of Li7La3Zr2O12 garnet-based solid electrolyte for lithium batteries by LiClO4 filler incorporation** 2025
*Haseeb Ahmad Ghulam M. Mustafa Tayyaba Noor Ghulam Ali*
*Materials Chemistry and Physics*, Volume 337, Article Number 130596
**Impact Factor:** 4.300 | **Quartile:** 2
**DOI:** https://doi.org/10.1016/j.matchemphys.2025.130596

**Design and synthesis of low Pt-loaded Mn-ZIF-67 derived bifunctional electrocatalyst for oxygen electrode in metal–air batteries** 2025
*Haleema Haseeb Naseem Iqbal Tayyaba Noor Jaria Zahra Rimsha Mehek*
*Journal of Materials Science*, Volume:60, Issue:19, Pages 7872-7887
**Impact Factor:** 3.500 | **Quartile:** 2

**DOI:** https://doi.org/10.1007/s10853-025-10919-1

**Manganese doped Ni-MOF derived porous carbon-based bifunctional oxygen electrode catalyst for metal air batteries** 2025

*Naseem Iqbal Rabia Ahmad Tayyaba Noor Nadia Shahzad Muhammad Imran Shahzad*

*Materials Chemistry and Physics*, Volume 334, Article Number 130448

**Impact Factor:** 4.300 | **Quartile:** 2 | **Citations:** 3

**DOI:** doi.org/10.1016/j.matchemphys.2025.130448

**A multichambered carbon based electrode materials to realize efficient sodium-ion batteries** 2025

*Zeeshan Ali Muhammad Burhan Shafqat Muhammad Tayyab Ahsan Muhammad Ali Ahmad Saeed Rajab Hussain Tayyaba Noor Sofia Javed*

*Journal of Energy Storage*, Volume 106, Article Number 114804

**Impact Factor:** 8.900 | **Quartile:** 1 | **Citations:** 1

**DOI:** 10.1016/j.est.2024.114804

**Selective lithium recovery from spent LFP Li-ion batteries using organic acids** 2025

*Maryam Ali Naseem Iqbal Tayyaba Noor Neelam Zaman*

*Ionics*, Volume:31, Pages: 273-286

**Impact Factor:** 2.4 | **Quartile:** 3 | **Citations:** 2

**DOI:** https://doi.org/10.1007/s11581-024-05960-0

**Molten salt approach of zeolitic imidazole framework derived strontium doped porous carbon based bifunctional electrocatalysts for direct methanol fuel cell** 2024

*Neelam Zaman Naseem Iqbal Tayyaba Noor Junkuo Gao*

*Journal of Power Sources*, Volume 624, Article Number 235541

**Impact Factor:** 8.100 | **Quartile:** 1

**DOI:** https://doi.org/10.1016/j.jpowsour.2024.235541

**Rhamnolipids functionalized intrinsically active liposomes loaded with cinnamaldehyde: Potent antimicrobial and antibiofilm activity against Salmonella Typhimurium and Salmonella Enteritidis** 2024

*Noureen Zafeer Sajida Mushtaq Saima Shabbir Tayyaba Noor Muhammad Imran*

*Food Science and Biotechnology*, Pages 1-16

**Impact Factor:** 2.400 | **Quartile:** 3 | **Citations:** 1

**DOI:** https://doi.org/10.1007/s10068-024-01735-5

**Stimuli-responsive gelatin-coated alginate nanocarriers: Targeted delivery of efflux pump inhibitor and antibacterial agents to control multidrug resistant P. aeruginosa** 2024

*Rabia Shahbaz Mahnoor Rahman Saima Shabbir Ramla Shahid Tayyaba Noor Muhammad Imran*

*Journal of Drug Delivery Science and Technology*, Volume 101, Part A, November 2024, 106184

**Impact Factor:** 4.500 | **Quartile:** 1 | **Citations:** 1

**DOI:** https://doi.org/10.1016/j.jddst.2024.106184

**Simulation of hybrid boiling nano fluid flow with convective boundary conditions through a porous stretching sheet through Levenberg Marquardt artificial neural networks approach** 2024

*Noreen Sher Akbar Tayyab Zamir Javaria Akram Tayyaba Noor Taseer Muhammad*

*International Journal of Heat and Mass Transfer*, Volume 228, Article Number 125615

**Impact Factor:** 5.200 | **Quartile:** 1 | **Citations:** 78

**DOI:** 10.1016/j.ijheatmasstransfer.2024.125615

**Optimization of z-scheme Bi0.5Na0.5TiO3/RGO-Co3O4 composite catalyst for water splitting reaction through piezo-photocatalysis** 2024

*Farah Mumtaz Hamid Jabbar Muhamad Zubair Khan Abdul Ghaffar Abrar H. Baluch Sofia Javed Tayyaba Noor Zeeshan Ali Jung Hyuk Koh Mohsin Saleem*

*International Journal of Hydrogen Energy*, Volume 78, Pages 1468-1480

**Impact Factor:** 8.100 | **Quartile:** 1 | **Citations:** 13

**DOI:** https://doi.org/10.1016/j.ijhydene.2024.06.387

**An Efficient, Ecofriendly Bimetallic Fe-In MOF and its g-C3N4 Based Composites for Methanol Oxidation Reaction** 2024

*Neelam Zaman Naseem Iqbal Tayyaba Noor*

*Journal of Inorganic and Organometallic Polymers and Materials*, Pages 1-17

**Impact Factor:** 3.900 | **Quartile:** 2 | **Citations:** 2

**DOI:** doi.org/10.1007/s10904-024-03280-4

**Zeolitic imidazolate framework (ZIF) derived MoS2/Co3S4/NPC as the supercapacitor electrode material** 2024

*Maryam Raza Naseem Iqbal Tayyaba Noor Iqra Shaukat Rabia Ahmad Junkuo Gao Zahid Ali Ghazi*

*Materials Research Bulletin*, Volume 176, Article Number 112830

**Impact Factor:** 5.400 | **Quartile:** 2 | **Citations:** 9

**DOI:** https://doi.org/10.1016/j.materresbull.2024.112830

**Biodiesel production from marine macroalgae Ulva lactuca lipids using novel Cu-BTC@AC catalyst: Parametric analysis and optimization** 2024

*Muhammad Zubair Yameen Dagmar Juchelková Salman Raza Naqvi Dr. Tayyaba Noor Arshid Mahmood Ali Khurram Shahzad Muhammad Imtiaz Rashid Aishah Binti Mahpudz*

*Energy Conversion and Management: X*, Volume:23, Article Number: 100628

**Impact Factor:** 7.1 | **Quartile:** 1 | **Citations:** 14

**DOI:** 10.1016/j.ecmx.2024.100628

**Thermal management of Li-ion battery by using eutectic mixture of phase-change materials** 2024

*Rao Rumman Ullah Khan Dr Naseem Iqbal Dr. Tayyaba Noor Dr. Majid Ali Aamir Khan Muhammad Waqas Nazar*

*Journal of Energy Storage*, Volume 90, Part A, 2024, Article Number: 111858

**Impact Factor:** 9.4 | **Quartile:** 1 | **Citations:** 2

**DOI:** 10.1016/j.est.2024.111858

**Synthesis of Mn loaded FeCo-MOF and its composites with reduced graphene oxide as highly efficient electrocatalysts for oxygen evolution and reduction reactions in metal-air batteries** 2024

*Muhammad Mudassar Aslam Dr. Tayyaba Noor Dr Erum Pervaiz Dr Naseem Iqbal Neelam Zaman*

*International Journal of Hydrogen Energy*, Volume:70, Page:614-628

**Impact Factor:** 7.2 | **Quartile:** 1 | **Citations:** 9

**DOI:** 10.1016/j.ijhydene.2024.05.228

**Photocatalytic Dye Degradation from Textile Wastewater: A Review** 2024

*Sadia Khan Dr. Tayyaba Noor Dr Naseem Iqbal Lubna Yaqoob*

*ACS Omega*, Pages:17

**Impact Factor:** 4.1 | **Quartile:** 1 | **Citations:** 194

**DOI:** 10.1021/acsomega.4c00887

**Hollow CoP/carbon as an efficient catalyst for the peroxymonosulfate activation derived from phytic acid assisted metal-organic framework** 2024

*Muhammad Abdul Nasir Khan Prosper Kwame Klu Chengming Xiao Junwen Qi Tayyaba Noor Zeshan Kaleemullah Kalwar Jiansheng Li*

*Chemosphere*, Volume 355, Article Number 141775

**Impact Factor:** 8.800 | **Quartile:** 1 | **Citations:** 2

**DOI:** https://doi.org/10.1016/j.chemosphere.2024.141775

**Fabrication of MoS2/rGO hybrids as electrocatalyst for water splitting applications** 2024

*M. Shahzaib Khan Tayyaba Noor Erum Pervaiz Naseem Iqbal Neelam Zaman*

*RSC Advances*, Volume 14(18), Pages 12742-12753

**Impact Factor:** 3.9 | **Quartile:** 2 | **Citations:** 15

**DOI:** 10.1039/D4RA00697F

**A comprehensive comparison of plastic derived and commercial Pt/C electrocatalysts in methanol oxidation, hydrogen evolution reaction, oxygen evolution and reduction reaction** 2024

*Neelam Zaman Naseem Iqbal Tayyaba Noor*

*International Journal of Hydrogen Energy*, Volume 63, Pages 737-748

**Impact Factor:** 7.200 | **Quartile:** 1 | **Citations:** 6

**DOI:** https://doi.org/10.1016/j.ijhydene.2024.03.227

**Sulfide-based Mo-MOF derived bifunctional electrocatalysts for direct methanol fuel cells** 2024

*Neelam Zaman Dr Naseem Iqbal Dr. Tayyaba Noor Dr. Nadia Shahzad Junkuo Gao*

*Fuel*, Volume 362, Article Number: 130813,

**Impact Factor:** 7.4 | **Quartile:** 1 | **Citations:** 16

**DOI:** 10.1016/j.fuel.2023.130813

**Oxide-based ternary composite solid-state electrolyte for next-generation lithium batteries** 2024

*Haseeb Ahmad Hafiz Muhammad Haseeb Altamash Shabbir Zuhair S. Khan Tayyaba Noor Ghulam Ali*

*Energy Storage*, Volume 6, Issue 3, Article Number e619

**Impact Factor:** 3.600 | **Quartile:** 3 | **Citations:** 4

**DOI:** https://doi.org/10.1002/est2.619

**Synergistic production of fuels from co-pyrolysis of lignite coal and waste plastic** 2024

*Asif Khan Dr Naseem Iqbal Dr. Tayyaba Noor Dr. Muhammad Hassan Dr. Javaid Akhter*

*Journal of the Energy Institute*, Volume 113, Article Number: 101527

**Impact Factor:** 5.7 | **Quartile:** 2 | **Citations:** 7

**DOI:** 10.1016/j.joei.2024.101527

**Development of Mn/Cu Bi-metallic MOF for electrochemical CO2 reduction into valuable products** 2024

*Umar Raza Dr Naseem Iqbal Dr. Tayyaba Noor Awais Ahmad*

*Journal of solid state electrochemistry*, Pages: 10

**Impact Factor:** 2.5 | **Quartile:** 4 | **Citations:** 2

**DOI:** 10.1007/s10008-024-05859-w

**Optimization of Water Based Drilling Fluid Properties with the SiO2/g-C3N4 Hybrid** 2024

*Anwar Ahmed Erum Pervaiz Uzair Abdullah Tayyaba Noor*

*ACS Omega*, Vol:9, Issue: 13, Pages: 15052-15064, Article Number: 3c08766

**Impact Factor:** 4.1 | **Quartile:** 2 | **Citations:** 7

**DOI:** 10.1021/acsomega.3c08766

**Improved rate capability and long cycle life of metal-organic framework derived TiO2@V2O5 composite as an efficient cathode for sodium-ion batteries** 2024

*Rimsha Mehek Dr Naseem Iqbal Omama Javed Dr. Tayyaba Noor Wei Liu*

*Journal of Energy Storage*, Volume:78, Article Number: 109921

**Impact Factor:** 9.4 | **Quartile:** 1 | **Citations:** 11

**DOI:** 10.1016/j.est.2023.109921

**CO2 adsorption properties of Ni-BDC MOF and its 1–8 wt% g-C3N4/Ni-BDC MOF** 2024

*Muhammad Haris Azhar Tayyaba Noor Naseem Iqbal Neelam Zaman Sara Farrukh*

*Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, Volume 299, Article Number: 117043

**Impact Factor:** 3.6 | **Quartile:** 2 | **Citations:** 5

**DOI:** 10.1016/j.mseb.2023.117043

**Metal–Organic Framework/Ti3C2Tx MXene-Derived Functional Nanostructures for High-Performance Supercapacitors** 2023

*Dr Naseem Iqbal Dr. Tayyaba Noor Srinivasa Kartik Nemani Rabia Ahmad Likun Zhu Babak Anasori*

*ACS Applied Nano Materials*, Vol: 7(1), Pages:253-266

**Impact Factor:** 5.9 | **Quartile:** 2 | **Citations:** 10

**DOI:** 10.1021/acsanm.3c04389

**Proteosomes based on milk phospholipids and proteins to enhance the stability and bioaccessibility of β-carotene** 2023

*Bina Zarif Saima Shabbir Ramla Shahid Tayyaba Noor Muhammad Imran*

*Food Chemistry*, Volume 429, Article Number 136841

**Impact Factor:** 8.8 | **Quartile:** 1 | **Citations:** 6

**DOI:** https://doi.org/10.1016/j.foodchem.2023.136841

**Potential of milk fat globule membrane's phospholipids and anhydrous milk fat based nanostructured lipid carriers for enhanced bioaccessibility of vitamin D3** 2023

*Bina Zarif Muhammad Haris Ramla Shahid Tauqir A. Sherazi Abdur Rahman Tayyaba Noor Muhammad Imran*

*International Dairy Journal*, Volume 147, Article Number 105766

**Impact Factor:** 3.1 | **Quartile:** 2 | **Citations:** 6

**DOI:** https://doi.org/10.1016/j.idairyj.2023.105766

**Functionalized chitosan based nanotherapeutics to combat emerging antimicrobial resistance in bacterial pathogen** 2023

*Sadaf Ejaz Saima Ejaz Mahnoor Rahman Ramla Shahid Ayesha Ihsan Saima Shabbir Abdur Rahman Tayyaba Noor Muhammad Imran*

*Materials Today Communications*, Volume 37, Article Number 107050

**Impact Factor:** 3.8 | **Quartile:** 2 | **Citations:** 2

**DOI:** https://doi.org/10.1016/j.mtcomm.2023.107050

**Graphene-grafted bimetallic MOF membranes for hazardous & toxic contaminants treatment** 2023

*Muhammad Bilal Khan Niazi Ayesha Rehman Zaib Jahan Tayyaba Noor Farhan Javed Sarah I Othman Mostafa R. Abukhadra Alam Nawaz*

*Chemosphere*, Volume 340, Article Number 139721

**Impact Factor:** 8.8 | **Quartile:** 1 | **Citations:** 6

**DOI:** https://doi.org/10.1016/j.chemosphere.2023.139721

**Designing of Fe- ZIF67 derived Fe-Co/NC with its reduced graphene oxide-based composites for hydrogen and oxygen evolution reaction** 2023

*Sadia Khan Tayyaba Noor Naseem Iqbal Erum Pervaiz*

*Journal of Electroanalytical Chemistry*, Volume 948, Article Number 117811

**Impact Factor:** 4.5 | **Quartile:** 1 | **Citations:** 8

**DOI:** https://doi.org/10.1016/j.jelechem.2023.117811

**CoSe/NC Composites through the Selenization of ZIF-67 for High-Performance Supercapacitor Electrodes** 2023

*Iqra Shaukat Dr Naseem Iqbal Dr. Tayyaba Noor Maryam Raza Rabia Ahmad*

*Energy Fuels*, Volume:37, Issue:20, Page:16150-16159

**Impact Factor:** 5.3 | **Quartile:** 1 | **Citations:** 15

**DOI:** 10.1021/acs.energyfuels.3c03169

**Investigation of the effect of Ni and Cu variant MOF-74 in the Polydimethylsiloxane (PDMS)-based Mixed Matrix Membranes (MMMs) for efficient gas separation applications** 2023

*Subhan Ali Sarah Farrukh Syed Shujaat Karim Tayyaba Noor Sidra Liaquat Ayesha Sultan*

*Environmental Science and Pollution Research*, Volume:30, Issue:50, Page:109453-109468

**Impact Factor:** 5.8 | **Quartile:** 1 | **Citations:** 3

**DOI:** 10.1007/s11356-023-30029-2

**Conversion of low-density polyethylene plastic waste into valuable fuels using fly ash as a catalyst** 2023

*Asif Khan Naseem Iqbal Tayyaba Noor Neelam Zaman Shoaib Raza Khan*

*Sustainable Energy & Fuels*, Pages 1-20

**Impact Factor:** 5.6 | **Quartile:** 2 | **Citations:** 7

**DOI:** 10.1039/d3se00779k

**A zeolitic imidazolate framework (ZIF-67) and graphitic carbon nitride (g-C3N4) composite based efficient electrocatalyst for overall water-splitting reaction** 2023

*Sadia Khan Tayyaba Noor Naseem Iqbal Erum Pervaiz Lubna Yaqoob*

*RSC Advances*, Volume 13, Issue 36, Pages 24973-24987

**Impact Factor:** 3.9 | **Quartile:** 2 | **Citations:** 19

**DOI:** https://doi.org/10.1039/D3RA04783K

**Milk phospholipids and buttermilk based composite nanosystems for enhanced stability and bioaccessibility of β-carotene** 2023

*Bina Zarif Saima Shabbir Abdur Rahman Tauqir A. Sherazi Ramla Shahid Tayyaba Noor Muhammad Imran*

*International Dairy Journal*, Volume 143, Article Number 105668

**Impact Factor:** 3.572 | **Quartile:** 2 | **Citations:** 5

**DOI:** https://doi.org/10.1016/j.idairyj.2023.105668

**In-situ synthesis of crystalline MoS2@ZIF-67 nanocomposite for efficient removal of Methyl Orange Dye from aqueous media** 2023

*Tahreem Haq Nawz Muhammad Talha Masood Amna Safdar Muhammad Shahid Tayyaba Noor Muzammil Hussain Ayesha Razi Malik Adeel Umer*

*Micromachines* , Volume 14(8), Article Number 1534

**Impact Factor:** 3.4 | **Quartile:** 2 | **Citations:** 6

**DOI:** https://doi.org/10.3390/mi14081534

**Efficient electrochemical performance of MnO2 nanowires interknitted vanadium oxide intercalated nanoporous carbon network as cathode for aqueous zinc ion battery** 2023

*Rimsha Mehek Naseem Iqbal Tayyaba Noor Yuanshen Wang Alexey Y. Ganin*

*Journal of Industrial and Engineering Chemistry*, Volume 123, Pages 150-157

**Impact Factor:** 6.760 | **Quartile:** 1 | **Citations:** 5

**DOI:** https://doi.org/10.1016/j.jiec.2023.03.031

**An Efficient and Stable Electrocatalyst Derived from Ni–Mo–Co MOF for Methanol Oxidation Reaction** 2023

*Neelam Zaman Naseem Iqbal Tayyaba Noor*

*ChemCatChem* , Volume 15, Issue 13, Article Number e202300502

**Impact Factor:** 4.5 | **Quartile:** 2 | **Citations:** 15

**DOI:** https://doi.org/10.1002/cctc.202300502

**Surface engineering of chitosan nanosystems and the impact of functionalized groups on the permeability of model drug across intestinal tissue** 2023

*Sadaf Ejaz Syed Muhammad Afroz Ali Bina Zarif Ramla Shahid Ayesha Ihsan Tayyaba Noor Muhammad Imran*

*International Journal of Biological Macromolecules*, Volume 242, Part 2, Article Number 124777

**Impact Factor:** 8.025 | **Quartile:** 1 | **Citations:** 1

**DOI:** https://doi.org/10.1016/j.ijbiomac.2023.124777

**Potential of pectin-chitosan based composite films embedded with quercetin-loaded nanofillers to control meat associated spoilage bacteria** 2023

*Syed Muhammad Afroz Ali Taskeen Niaz Anas Munir Ramla Shahid Saima Shabbir Tayyaba Noor Muhammad Imran*

*Food Bioscience*, Volume 53, Article Number 102547

**Impact Factor:** 5.318 | **Quartile:** 1 | **Citations:** 27

**DOI:** https://doi.org/10.1016/j.fbio.2023.102547

**Electrocatalytic activity of Cu MOF and its g-C3N4-based composites for oxygen reduction and evolution reaction in metal-air batteries** 2023

*Haroon Hayat Tayyaba Noor Naseem Iqbal Rabia Ahmad Neelam Zaman Yan Huang*

*Journal of Environmental Chemical Engineering*, Volume 11, Issue 3, Article Number 109627

**Impact Factor:** 7.968 | **Quartile:** 1 | **Citations:** 30

**DOI:** 10.1016/j.jece.2023.109627

**Advances in MXenes synthesis and MXenes derived electrocatalysts for oxygen electrode in metal-air batteries: A review** 2023

*Muhammad Mudassar Aslam Tayyaba Noor Naseem Iqbal*

*Materials Science and Engineering: B*, Volume 292, Article Number 116400

**Impact Factor:** 3.407 | **Quartile:** 2 | **Citations:** 16

**DOI:** https://doi.org/10.1016/j.mseb.2023.116400

**Development of high-capacity surface-engineered MXene composite for heavy metal Cr (VI) removal from industrial wastewater** 2023

*Umair Ali Asif Khalid Mahmood Salman Raza Naqvi Muhammad Taqi Mehran Tayyaba Noor*

*Chemosphere*, Volume 326, Article Number 138448

**Impact Factor:** 8.943 | **Quartile:** 1 | **Citations:** 21

**DOI:** https://doi.org/10.1016/j.chemosphere.2023.138448

**LSTN (La0.4Sr0.4Ti0.9Ni0.1O3-&) perovskite and graphitic carbon nitride (gC3N4) hybrids as a bifunctional electrocatalyst for water-splitting applications** 2023

*Umair Ali Asif Tayyaba Noor Erum Pervaiz Naseem Iqbal Neelam Zaman*

*Journal of Alloys and Compounds*, Volume 939, Article Number 168668

**Impact Factor:** 6.371 | **Quartile:** 1 | **Citations:** 33

**DOI:** https://doi.org/10.1016/j.jallcom.2022.168668

**Advances in production & activation of marine macroalgae-derived biochar catalyst for sustainable biodiesel production** 2023

*Muhammad Zubair Yameen Hamad AlMohamadi Salman Raza Naqvi Tayyaba Noor Wei-Hsin Chen Nor Aishah Saidina Amin*

*Fuel*, Volume 337, Article Number 127215

**Impact Factor:** 8.035 | **Quartile:** 1 | **Citations:** 38

**DOI:** https://doi.org/10.1016/j.fuel.2022.127215

**CO2 adsorption study of the zeolite imidazolate framework (ZIF-8) and its g-C3N4 composites** 2023

*Arif Ullah Khan Tayyaba Noor Naseem Iqbal Neelam Zaman Zakir Hussain*

*Journal of Materials Science*, Volume 58, Issue 9, Pages 3947-3959

**Impact Factor:** 4.682 | **Quartile:** 2 | **Citations:** 11

**DOI:** https://doi.org/10.1007/s10853-023-08253-5

**Recent progress in catalytic deoxygenation of biomass pyrolysis oil using microporous zeolites for green fuels production** 2023

*Salman Raza Naqvi Asif Hussain Khoja Imtiaz Ali Muhammad Naqvi Tayyaba Noor Awais Ahmad Rafael Luque Nor Aishah Saidina Amin*

*Fuel*, Volume 333, Part 1, Article Number 126268

**Impact Factor:** 8.035 | **Quartile:** 1 | **Citations:** 66

**DOI:** https://doi.org/10.1016/j.fuel.2022.126268

**Metal-organic framework derived vanadium oxide supported nanoporous carbon structure as a bifunctional electrocatalyst for potential application in metal air batteries** 2023

*Rimsha Mehek Naseem Iqbal Tayyaba Noor Zahid Ali Ghazi Muhammad Umair*

*RSC Advances*, Volume 13, Issue 1, Pages 652-664

**Impact Factor:** 4.036 | **Quartile:** 2 | **Citations:** 15

**DOI:** 10.1039/D2RA06688B

**Hierarchical Flower-like NiMn-LDH@MnCo2S4Grown on Nickle Foam as a High-Specific Capacity Faradaic Electrode** 2022

*M. Arsalan Raza Naseem Iqbal Tayyaba Noor Zahid Ali Ghazi*

*Energy Fuels*, Vol:37, No. 2, Pages:1310-1317

**Impact Factor:** 4.654 | **Quartile:** 2 | **Citations:** 11

**DOI:** https://doi.org/10.1021/acs.energyfuels.2c03370

**An intelligent sensing system for estimation of efficiency of carbon-capturing unit in a cement plant** 2022

*Usman Khan Jadoon Iftikhar Ahmad Tayyaba Noor Manabu Kano Hakan Caliskan Muhammad Ahsan*

*Journal of Cleaner Production*, Volume 377, Article Number 134359

**Impact Factor:** 11.1 | **Quartile:** 1 | **Citations:** 11

**DOI:** https://doi.org/10.1016/j.jclepro.2022.134359

**Polyvinyl alcohol and aminated cellulose nanocrystal membranes with improved interfacial compatibility for environmental applications** 2022

*Saleem Ahmad Zaib Jahan Muhammad Bilal Khan Niazi Tayyaba Noor Ofaira Azhar Farooq Sher Honghao Hou Emina Karahmet Shere*

*Environmental Research*, Volume 214, Part 1, Article Number 113793

**Impact Factor:** 8.431 | **Quartile:** 1 | **Citations:** 44

**DOI:** https://doi.org/10.1016/j.envres.2022.113793

**Cellulose acetate based sustainable nanostructured membranes for environmental remediation** 2022

*Ayesha Rehman Zaib Jahan Tayyaba Noor Muhammad Bilal Khan Niazi Muhammad Aftab Akram Farqooq Sher Emina Karahmet Sher*

*Chemosphere*, Volume 307, Part 1, Article Number 135736

**Impact Factor:** 8.943 | **Quartile:** 1 | **Citations:** 56

**DOI:** https://doi.org/10.1016/j.chemosphere.2022.135736

**ZIF-8 derived bimetallic Fe–Ni-Nanoporous carbon for enhanced oxygen reduction reaction** 2022

*Umair Imtiaz Naseem Iqbal Tayyaba Noor M. Zain Bin Amjad M. Arsalan Raza Asad Ali*

*International Journal of Hydrogen Energy*, Volume 47, Issue 87, 29 October 2022, Pages 37002-37012

**Impact Factor:** 7.139 | **Quartile:** 2 | **Citations:** 16

**DOI:** 10.1016/j.ijhydene.2022.08.253

**ZIF-67 derived ternary NiMnCo-based nanoporous carbon material for methanol oxidation reaction** 2022

*Aqsa Saqib Lodhi Naseem Iqbal Tayyaba Noor Neelam Zaman Junkuo Gao*

*International Journal of Energy Research*, Volume 46, Issue 12, Pages 16736-16750

**Impact Factor:** 4.6 | **Quartile:** 1 | **Citations:** 12

**DOI:** https://doi.org/10.1002/er.8335

**Comparative study of Mn-ZIF-67 derived carbon (Mn-Co/C) and its rGO-based composites for the methanol oxidation** 2022

*Neelam Zaman Naseem Iqbal Tayyaba Noor*

*Journal of Environmental Chemical Engineering*, Volume 10, Issue 5, Article Number 108351

**Impact Factor:** 7.968 | **Quartile:** 1 | **Citations:** 25

**DOI:** https://doi.org/10.1016/j.jece.2022.108351

**Advances and challenges of MOF derived carbon- based electrocatalysts and photocatalyst for water splitting: A review** 2022

*Neelam Zaman Naseem Iqbal Tayyaba Noor*

*Arabian Journal of Chemistry*, Volume 15, Issue 7, Article Number 103906

**Impact Factor:** 5.165 | **Quartile:** 2 | **Citations:** 65

**DOI:** https://doi.org/10.1016/j.arabjc.2022.103906

**Synthesis of NaNiF3 and its composite with multi-walled carbon nanotubes as cathode materials for aqueous sodium-ion battery** 2022

*M. Zain Bin Amjad Naseem Iqbal Ghulam Ali Tayyaba Noor Ahmed A. Qayyum Usman Ali Khan Junkuo Gao*

*Journal of Materials Science: Materials in Electronics*, Volume 33, Issue 21, Pages 16987-17000

**Impact Factor:** 2.8 | **Quartile:** 2 | **Citations:** 2

**DOI:** https://doi.org/10.1007/s10854-022-08577-z

**Active Composite Packaging Reinforced with Nisin-Loaded Nano-Vesicles for Extended Shelf Life of Chicken Breast Filets and Cheese Slices** 2022

*Taskeen Niaz Saima Shabbir Tayyaba Noor Muhammad Imran*

*Food and Bioprocess Technology*, Volume 15, Issue 6, Pages 1284-1298

**Impact Factor:** 4.465 | **Quartile:** 1 | **Citations:** 26

**DOI:** https://doi.org/10.1007/s11947-022-02815-2

**High–Selective Separation Performance of CO2 from CH4 by Interfacial Engineering of Ultra-low-dose Bimetallic Pyrazine-MOF based Mixed Matrix Membranes** 2022

*Hassan Raza Khan Zaib Jahan Muhammad Bilal Khan Niazi Tayyaba Noor Honghao Hou Sikander Rafiq*
*Carbon Capture Science & Technology*, Volume 3, Article Number 100048
**Impact Factor:** N/A | **Citations:** 18
**DOI:** https://doi.org/10.1016/j.ccst.2022.100048

**Nanostructured Mn-doped Zn-N-C @reduced graphene oxide as high performing electrocatalyst for oxygen reduction reaction** 2022
*Asad Ali Naseem Iqbal Tayyaba Noor Umair Imtiaz*
*Journal of Electroanalytical Chemistry*, Volume 914, Article Number 116324
**Impact Factor:** 4.464 | **Quartile:** 1 | **Citations:** 8
**DOI:** https://doi.org/10.1016/j.jelechem.2022.116324

**Electrocatalytic study of cu/Ni MOF and its g-C3N4 composites for methanol oxidation reaction** 2022
*Muzzamil Abbasi Tayyaba Noor Naseem Iqbal Neelam Zaman*
*International Journal of Energy Research*, Volume46, Issue10, Pages 13915-13930
**Impact Factor:** 4.6 | **Quartile:** 1 | **Citations:** 26
**DOI:** https://doi.org/10.1002/er.8109

**Chitosan-curcumin complexation to develop functionalized nanosystems with enhanced antimicrobial activity against hetero-resistant gastric pathogen** 2022
*Sadaf Ejaz Saima Ejaz Ramla Shahid Tayyaba Noor Saima Shabbir Muhammad Imran*
*International Journal of Biological Macromolecules*, Volume 204, Pages 540-554
**Impact Factor:** 6.953 | **Quartile:** 1 | **Citations:** 26
**DOI:** https://doi.org/10.1016/j.ijbiomac.2022.02.039

**The influence of polymer concentration on the morphology and mechanical properties of asymmetric polyvinyl alcohol (PVA) membrane for O2/N2 separation** 2022
*Syed Shujaat Karim Sarah Farrukh Arshad Hussain Mohammad Younas Tayyaba Noor*
*Polymers and Polymer Composites*, Volume 30, Pages 1-12
**Impact Factor:** 1.841 | **Quartile:** 3 | **Citations:** 11
**DOI:** 10.1177/09673911221090053

**Conversion of Plastic Waste to Carbon-Based Compounds and Application in Energy Storage Devices** 2022
*Lubna Yaqoob Tayyaba Noor Naseem Iqbal*
*ACS Omega*, Volume 7(16), Pages 13403-13435
**Impact Factor:** 3.512 | **Quartile:** 2 | **Citations:** 90
**DOI:** https://doi.org/10.1021/acsomega.1c07291

**Zeolitic imidazolate frameworks derived Co-Zn-nanoporous carbon-sulfide material for supercapacitors** 2022
*Rabia Ahmad Naseem Iqbal Tayyaba Noor Ghulam Ali Majid Ali Nadia Shehzad Muhammad Arslan Raza*
*Electrochimica Acta*, Volume 404, Article Number 139739
**Impact Factor:** 6.901 | **Quartile:** 2 | **Citations:** 22
**DOI:** https://doi.org/10.1016/j.electacta.2021.139739

**Experimental investigation of polysulfone modified cellulose acetate membrane for CO2/H2 gas separation** 2022
*Inamullah Douna Sarah Farrukh Arshad Hussain Zarrar Salahuddin Tayyaba Noor Erum Pervaiz Mohammad Younas Xian Feng Fan*
*Korean Journal of Chemical Engineering*, Volume 39, Pages189-197
**Impact Factor:** 3.309 | **Quartile:** 2 | **Citations:** 19
**DOI:** 10.1007/s11814-021-0900-7

**An overview of supercapacitors electrode materials based on metal organic frameworks and future perspectives** 2021
*Lubna Yaqoob Tayyaba Noor Naseem Iqbal*
*International Journal of Energy Research*, Pages 1-44
**Impact Factor:** 4.672 | **Quartile:** 1 | **Citations:** 22
**DOI:** 10.1002/er.7491

**A TiO2 composite with graphitic carbon nitride as a photocatalyst for biodiesel production from waste cooking oil** 2021
*Mahrukh Khan Humera Farah Naseem Iqbal Tayyaba Noor M. Zain Bin Amjad Syeda Sidrah Ejaz Bukhari*
*RSC Advances*, Volume 11(59), Pages 37575–37583
**Impact Factor:** 4.036 | **Quartile:** 2 | **Citations:** 33
**DOI:** 10.1039/d1ra07796a

**Advanced strategies in Metal-Organic Frameworks for CO2 Capture and Separation** 2021

*Muhammad Usman Naseem Iqbal Tayyaba Noor Neelam Zaman Aisha Asghar Mahmoud M. Abdelnaby Ahmad Galadima Aasif Helal*

*Chemical Record* , Pages 1-29

**Impact Factor:** 6.771 | **Quartile:** 1 | **Citations:** 72

**DOI:** 10.1002/tcr.202100230

**Milk phospholipids-based nanostructures functionalized with rhamnolipids and bacteriocin: Intrinsic and synergistic antimicrobial activity for cheese preservation** 2021

*Ayesha Sardar Khalid Taskeen Niaz Bina Zarif Saima Shabbir Tayyaba Noor Ramla Shahid Muhammad Imran*

*Food Bioscience* , Volume 47, Article Number 101442

**Impact Factor:** 4.240 | **Quartile:** 2 | **Citations:** 18

**DOI:** https://doi.org/10.1016/j.fbio.2021.101442

**A comprehensive overview of dual-layer composite membrane for air (O2/N2) separation** 2021

*Syed Shujaat Karim Sarah Farrukh Arshad Hussain Tayyaba Noor Mohammad Younas*

*Polymers and Polymer Composites*, Volume 29, Issue 9, Pages S1630-S1640

**Impact Factor:** 3.171 | **Quartile:** 2 | **Citations:** 14

**DOI:** doi.org/10.1177/09673911211045852

**ZIF 67 derived Co–Sn composites with N-doped nanoporous carbon as anode material for Li-ion batteries** 2021

*Sheeraz Ashraf Rimsha Mehek Naseem Iqbal Tayyaba Noor Ghulam Ali Abdul Wahab Ahmed Qayyum Awais Ahmed*

*Material Chemistry and Physics* , Volume 270, Article Number 124824

**Impact Factor:** 4.778 | **Quartile:** 2 | **Citations:** 18

**DOI:** https://doi.org/10.1016/j.matchemphys.2021.124824

**Metal–organic framework based electrode materials for lithium-ion batteries: a review** 2021

*Rimsha Mehak Naseem Iqbal Tayyaba Noor M. Zain Bin Amjad Ghulam Ali K. Vignarooban M. Abdullah Khan*

*RSC Advances* , Volume 11(47), Pages 29247-29266

**Impact Factor:** 4.036 | **Quartile:** 2 | **Citations:** 84

**DOI:** DOI: 10.1039/d1ra05073g

**Cerium based metal organic framework derived composite with reduced graphene oxide as efficient supercapacitor electrode** 2021

*Usman Ali Khan Naseem Iqbal Tayyaba Noor Rabia Ahmad Awais Ahmad Junkuo Gao Zain Amjad Abdul Wahab*

*Journal of Energy Storage* , Volume 41, Article Number 102999

**Impact Factor:** 8.907 | **Quartile:** 1 | **Citations:** 45

**DOI:** https://doi.org/10.1016/j.est.2021.102999

**Electrocatalytic study of NiO-MOF with activated carbon composites for methanol oxidation reaction** 2021

*Saadia Hanif Dr. Naseem Iqbal Tayyaba Noor Neelam Zaman K.Vignarooban*

*Scientifc Reports* , Volume 11, Article Number 17192

**Impact Factor:** 4.997 | **Quartile:** 2 | **Citations:** 30

**DOI:** https://doi.org/10.1038/s41598-021-96794-7

**Synthesis, characterization and CO2 adsorption studies of DABCO based pillared Zn-BDC and Co-BDC metal organic frameworks** 2021

*Ijlal Aamer Naseem Iqbal Tayyaba Noor Aisha Asghar*

*Material Research Express* , Volume 8, Number 7, Article Number 075506

**Impact Factor:** 2.025 | **Quartile:** 4 | **Citations:** 14

**DOI:** https://doi.org/10.1088/2053-1591/ac14ff

**Metal Organic Frameworks Derived Sustainable Polyvinyl Alcohol/Starch Nanocomposite Films as Robust Materials for Packaging Applications** 2021

*Naveed Ahmed Khan Muhammad Bilal Khan Niazi Farooq Sher Zaib Jahan Tayyaba Noor Ofaira Azhar Tazien Rashid Naseem Iqbal Naseem Iqbal*

*Polymers* , 13(14), 2307

**Impact Factor:** 4.329 | **Quartile:** 1 | **Citations:** 71

**DOI:** https://doi.org/10.3390/polym13142307

**Electrocatalytic Performance of NiNH2BDC MOF Based Composites with rGO For Methanol Oxidation Reaction** 2021

*Lubna Yaqoob Tayyaba Noor Naseem Iqbal Habib Nasir Asad Mumtaz*

*Scientific Reports* , Volume 11, Article Number 13402

**Impact Factor:** 4.379 | **Quartile:** 1 | **Citations:** 37

**DOI:** https://doi.org/10.1038/s41598-021-92660-8

**Recent advances in the metal–organic framework-based electrocatalysts for the hydrogen evolution reaction in water splitting: a review** 2021

*Neelam Zaman Tayyaba Noor Naseem Iqbal*

*RSC Advances*, Volume 11(36), Pages 21904-21925

**Impact Factor:** 4.036 | **Quartile:** 2 | **Citations:** 100

**DOI:** https://doi.org/10.1039/D1RA02240G

**Mixed and single gas permeation performance analysis of amino-modified ZIF based mixed matrix membrane** 2021

*Zarrar Salahuddin Sarah Farrukh Arshad Hussain Tayyaba Noor Witold Kwapinski*

*Polymer and Polymer Composite*, Pages 1-12

**Impact Factor:** 1.841 | **Quartile:** 3 | **Citations:** 4

**DOI:** https://doi.org/10.1177/09673911211023303

**Graphene based FeO/NiO MOF Composites for Methanol Oxidation Reaction** 2021

*Tayyaba Noor Muhammad Mohtashim Naseem Iqbal Salman Raza Naqvi Neelam Zaman Lubna Rasheed Muhammad Yousaf*

*Journal of Electroanalytical Chemistry*, Volume 890, Article Number 115249

**Impact Factor:** 4.464 | **Quartile:** 1 | **Citations:** 62

**DOI:** https://doi.org/10.1016/j.jelechem.2021.115249

**Cu-doped zeolite imidazole framework (ZIF-8) for effective electrocatalytic CO2 reduction** 2021

*Awais Ahmed Tayyaba Noor Ahmed Hassan Usman Ali Khan Abdul Wahab Muhammad Arsalan Raza Sheeraz Ashraf Naseem Iqbal*

*Journal of CO2 Utilization*, Volume 48, Article Number 101523

**Impact Factor:** 8.321 | **Quartile:** 1 | **Citations:** 72

**DOI:** https://doi.org/10.1016/j.jcou.2021.101523

**Molybdenum-doped lithium vanadium phosphate (Li3MoxV22x(PO4)3/C) as cathode material in lithium ion batteries** 2021

*Muhammad Zulqarnain Arif Naseem Iqbal Rimsha Mahek Tayyaba Noor Abdullah Khan*

*Journal of Material Science-Materials in Electronics*, Pages 1-13

**Impact Factor:** 2.22 | **Quartile:** 2 | **Citations:** 9

**DOI:** https://doi.org/10.1007/s10854-021-06222-9

**A comprehensive and critical review of the recent progress in electrocatalysts for the ethanol oxidation reaction** 2021

*Lubna Yaqoob Tayyaba Noor Naseem Iqbal*

*RSC Advances*, Volume 11, Pages 16768-16804

**Impact Factor:** 4.036 | **Quartile:** 2 | **Citations:** 111

**DOI:** 10.1039/D1RA01841H

**ZIF-67 Derived Cu-Doped Electrocatalyst for Oxygen Reduction Reaction** 2021

*Naseem Iqbal Tayyaba Noor M. Daarain Haider Syed Aun M. Rizvi Saadia Hanif Rehan Anwar*

*Journal of Electrochemical Energy Conversion and Storage*, Volume 18(2), Article Number 021001

**Impact Factor:** 2.323 | **Quartile:** 4 | **Citations:** 19

**DOI:** https://doi.org/10.1115/1.4047331

**TiO2 nanoparticles dose, application method and phosphorous levels influence genotoxicity in Rice (Oryza sativa L.), soil enzymatic activities and plant growth** 2021

*S. Phziya Tariq Waani Shagufta Irum Iram Gul KHURRAM YAQOOB Muhammad Usman Khalid Muhammad Arif Ali Umair Manzoor Tayyaba Noor Shafaqat Ali Muhammad Rizwan Muhammad Arshad*

*Ecotoxicology and Environmental Safety*, Volume 213, Article Number 111977

**Impact Factor:** 6.291 | **Quartile:** 1 | **Citations:** 50

**DOI:** https://doi.org/10.1016/j.ecoenv.2021.111977

**Recent Advances in Electrocatalysis of Oxygen Evolution Reaction using Noble-Metal, Transition-Metal, and Carbon-Based Materials** 2021

*Tayyaba Noor Lubna Yaqoob Naseem Iqbal*

*ChemElectroChem*, Volume 8, Issue 3, Pages 447-483

**Impact Factor:** 4.782 | **Quartile:** 2 | **Citations:** 102

**DOI:** https://doi.org/10.1002/celc.202001441

**Biomimetic highly hydrophobic stearic acid functionalized MOF sponge for efficient oil/water separation** 2021

*Tasmia Azam Erum Pervaiz Sarah Farrukh Tayyaba Noor*

*Materials Research Express*, Volume 8, Article Number 015019

**Impact Factor:** 2.025 | **Quartile:** 4 | **Citations:** 12

**DOI:** https://doi.org/10.1088/2053-1591/abd822

**Efficient electrochemical synthesis of a manganese-based metal–organic framework for H2 and CO2 uptake** 2021

*Aisha Asghar Naseem Iqbal Tayyaba Noor Benson M. Kariuki Luke Kidwell Timothy L. Easun*

*Green Chemistry*, Volume 23(1), Pages 1220-1227

**Impact Factor:** 11.034 | **Quartile:** 1 | **Citations:** 62

**DOI:** 10.1039/d0gc03292a

**ZIF-67 Derived MnO2 Doped Electrocatalyst for Oxygen Reduction Reaction** 2021

*Usman Salahuddin Naseem Iqbal Tayyaba Noor Saadia Hanif Haider Ejaz Neelam Zamman Safeer Ahmed*

*Catalysts*, Volume 11(1), Article Number 92

**Impact Factor:** 4.501 | **Quartile:** 3 | **Citations:** 21

**DOI:** https://doi.org/10.3390/catal11010092

**Electrochemical synergies of Fe-Ni bimetallic MOF CNTs catalyst for OER in water splitting** 2021

*Naseem Iqbal Tayyaba Noor Lubna Yaqoob Habib Nasir Neelam Zaman Khalid Talha*

*Journal of Alloys and Compounds,*, Volume 850, Article Number 156583

**Impact Factor:** 6.371 | **Quartile:** 1 | **Citations:** 198

**DOI:** https://doi.org/10.1016/j.jallcom.2020.156583

**New 3-D Mn(II) Coordination Polymer with Redox Active Oxalate Linker; An Efficient and Robust Electrocatalyst for Oxygen Evolution Reaction** 2021

*Tayyaba Noor Abdul Mannan Butt Saghir Abbas Muhammad Nawaz Tahir Ehsan Ullah Mughal Sajjad Hussain Sumrra Muhammad Naveed Zafar*

*Inorganica Chimica Acta*, Volume 514, Article Number 119982

**Impact Factor:** 3.118 | **Quartile:** 2 | **Citations:** 5

**DOI:** https://doi.org/10.1016/j.ica.2020.119982

**ZIF-67 derived nitrogen doped CNTs decorated with sulfur and Ni(OH)2 as potential electrode material for high-performance supercapacitors** 2020

*Naseem Iqbal Tayyaba Noor Mutawara Mahmood Baig Ghulam Ali Iftikhar Hussain Gul Rabia Ahmad*

*Electrochemica Acta*, Volume 364, Article Number 137147

**Impact Factor:** 6.901 | **Quartile:** 2 | **Citations:** 58

**DOI:** https://doi.org/10.1016/j.electacta.2020.137147

**Recent progress in development of efficient electrocatalyst for methanol oxidation reaction in direct methanol fuel cell** 2020

*Lubna Yaqoob Tayyaba Noor Naseem Iqbal*

*International Journal of Energy Research*, Pages 1-34

**Impact Factor:** 5.164 | **Quartile:** 1 | **Citations:** 111

**DOI:** https://doi.org/10.1002/er.6316

**Zeolitic imidazolate framework (ZIF)-derived porous carbon materials for supercapacitors: an overview** 2020

*Rabia Ahmed Usman Ali Khan Naseem Iqbal Tayyaba Noor*

*RSC Advances*, Volume 10, Pages 43733-43750

**Impact Factor:** 3.361 | **Quartile:** 2 | **Citations:** 103

**DOI:** 10.1039/D0RA08560J

**A Non-enzymatic Electrochemical Sensor for Glucose Detection Based on Ag@TiO2@ Metal-Organic Framework (ZIF-67) Nanocomposite** 2020

*Dooa Arif Manzar Sohai Muhammad Arman Liaqat Muzamil Ahmad Khan Tayyaba Noor Muzamil Ahmad Khan Zakir Hussain*

*Frontiers in Chemistry*, Volume 8, Article Number 573510

**Impact Factor:** 5.221 | **Quartile:** 2 | **Citations:** 72

**DOI:** https://doi.org/10.3389/fchem.2020.573510

**Charge transfer and opto-electronic properties of some newly designed polycatenar discotic liquid crystal derivatives: a DFT study** 2020

*Fouzia Malik Bushra Nosheen Zaman Ashraf Abdul Bais Tayyaba Noor*

*Journal of Molecular Modeling*, Volume 26, Article Number 291

**Impact Factor:** 1.810 | **Quartile:** 4 | **Citations:** 18

**DOI:** https://doi.org/10.1007/s00894-020-04550-x

**Synthesis, characterization and gas adsorption analysis of solvent dependent Zn-BTC metal organic frameworks** 2020

*Naseem Iqbal Tayyaba Noor Leena Aftab Aisha Ashgar*

*Separation Science and Technology*, Pages 1-11

**Impact Factor:** 2.475 | **Quartile:** 3 | **Citations:** 21

**DOI:** https://doi.org/10.1080/01496395.2020.1813176

**Synthesis and Characterization of PVA/Starch Hydrogel Membranes Incorporating Essential Oils Aimed to be Used in Wound Dressing Applications** 2020

*Farrukh Altaf Muhammad Bilal Khan Niazi Zaib Jahan Tahir Ahmad Muhammad Aftab Akram Amna Safdar Muhammad Shoaib Butt Tayyaba Noor Farooq Sher*

*Journal of Polymers and the Environment*, Pages 1-19

**Impact Factor:** 3.667 | **Quartile:** 2 | **Citations:** 145

**DOI:** https://doi.org/10.1007/s10924-020-01866-w

**Mannose functionalized chitosan nanosystems for enhanced antimicrobial activity against multidrug resistant pathogens** 2020

*Sadaf Ejaz Ayesha Ihsan Tayyaba Noor Saima Shabbir Muhammad Imran*

*Polymer Testing*, Volume 91, Article Number 106814

**Impact Factor:** 4.282 | **Quartile:** 1 | **Citations:** 47

**DOI:** https://doi.org/10.1016/j.polymertesting.2020.106814

**Nanocomposites of NiO/CuO Based MOF with rGO: An Efficient and Robust Electrocatalyst for Methanol Oxidation Reaction in DMFC** 2020

*Tayyaba Noor Sadaf Pervez Naseem Iqbal Habib Nasir Neelam Zaman Muhammad Sharif Erum Pervaiz*

*Nanomaterials*, Volume 10(8), Article Number 1601

**Impact Factor:** 5.076 | **Quartile:** 2 | **Citations:** 80

**DOI:** doi:10.3390/nano10081601

**Nanocomposites of cobalt benzene Tricarboxylic acid MOF with rGO: An efficient and robust electocatalyst for oxygen evaluation reaction (OER)** 2020

*Tayyaba Noor Naseem Iqbal Lubna Yaqoob Habib Nasir Manzar Sohail Neelam Zaman Muhammad Usman*

*Renewable Energy*, Volume 156, Pages 1040-1054

**Impact Factor:** 8.001 | **Quartile:** 1 | **Citations:** 136

**DOI:** https://doi.org/10.1016/j.renene.2020.04.131

**Alginate-caseinate based pH-responsive nano-coacervates to combat resistant bacterial biofilms in oral cavity** 2020

*Tayyaba Noor Taskeen Niaz Saima Shabbir Rashda Abbasi Muhammad Imran*

*International Journal of Biological Macromolecules*, Volume 156, Pages 1366-1380

**Impact Factor:** 6.953 | **Quartile:** 1 | **Citations:** 39

**DOI:** https://doi.org/10.1016/j.ijbiomac.2019.11.177

**Thermally reduced mesoporous manganese MOF @reduced graphene oxide nanocomposite as bifunctional electrocatalyst for oxygen reduction and evolution** 2020

*Naseem Iqbal Tayyaba Noor Abdul Wahab Sheeraz Ashraf Muhammad Arslan Raza Awais Ahmad Usman Ali Khan*

*RSC Advances*, Volume 10, Pages 27728-27742

**Impact Factor:** 3.361 | **Quartile:** 2 | **Citations:** 39

**DOI:** 10.1039/D0RA04193A

**MOF-Derived CuPt/NC Electrocatalyst for Oxygen Reduction Reaction** 2020

*Naseem Iqbal Tayyaba Noor Rehan Anwar Saadia Hanif Xuan Shi Neelam Zaman Daarain Haider Syed Aun M. Rizvi A. M. Kannan*

*Catalysts*, Volume 10(7), Article Number 799

**Impact Factor:** 4.146 | **Quartile:** 2 | **Citations:** 33

**DOI:** https://doi.org/10.3390/catal10070799

**Enhancement in the selectivity of O2/N2 via ZIF-8/CA mixed-matrix membranes and the development of a thermodynamic model to predict the permeability of gases** 2020

*Tayyaba Noor Shakir Ul Azam Arshad Hussain Sarah Farrukh Yangxian Liu*

*Environmental Science and Pollution Research*, Volume 27, Issue 17, Pages 24413-24429

**Impact Factor:** 4.223 | **Quartile:** 2 | **Citations:** 18

**DOI:** https://doi.org/10.1007/s11356-020-08778-1

**NiCo-N-doped carbon nanotubes based cathode catalyst for alkaline membrane fuel cell** 2020

*Dr. Tayyaba Noor Dr. Ghulam Ali Dr. Naseem Iqbal Saadia Hanif Xuan Shi A.M.Kannan*

*Renewable Energy* , Volume 154, Pages 508-516

**Impact Factor:** 8.001 | **Quartile:** 1 | **Citations:** 77
**DOI:** https://doi.org/10.1016/j.renene.2020.03.060

**Development of an Efficient Non-Noble Metal Based Anode Electrocatalyst to Promote Methanol Oxidation Activity in DMFC** 2020

*Naseem Iqbal Tayyaba Noor Lubna Yaqoob Habib Nasir Neelam Zaman Lubna Rasheed Muhammad Yousuf*

*Chemistryselect* , Volume 5, Issue 20, Pages 6023–6034

**Impact Factor:** 2.109 | **Quartile:** 3 | **Citations:** 26
**DOI:** doi.org/10.1002/slct.202000705

**Development of high performance amine functionalized zeolitic imidazolate framework (ZIF - 8)/cellulose triacetate mixed matrix membranes for CO2 /CH4 separation** 2020

*Dr. Tayyaba Noor Ayesha Raza Sarah Farrukh Arshad Hussain Imran Ullah Khan Mohd Hafiz Dzarfan Othman Muhammad Fahad Yousaf*

*International Journal of Energy Research*, Pages 1–11

**Impact Factor:** 5.164 | **Quartile:** 1 | **Citations:** 32
**DOI:** https://doi.org/10.1002/er.5448

**Hydrogen dependence of the reaction mechanism and kinetics of water gas shift reaction on Ni catalyst: Experimental and DFT study** 2020

*Tayyaba Noor Yanying Qi De Chen*

*Applied Catalysis B: Environmental* , Volume 264, Article Number 118430

**Impact Factor:** 19.503 | **Quartile:** 1 | **Citations:** 39
**DOI:** https://doi.org/10.1016/j.apcatb.2019.118430

**Synthesis and Characterization of Cu-MOF Derived Cu@AC Electrocatalyst for Oxygen Reduction Reaction in PEMFC** 2020

*Tayyaba Noor Naseem Iqbal Syed Aun M. Rizvi Muhammad Daarain Haider Rehan Anwar Saadia Hanif*

*Catalysis Letters* , Volume 150, Pages 1397-1407

**Impact Factor:** 3.186 | **Quartile:** 3 | **Citations:** 44
**DOI:** https://doi.org/10.1007/s10562-019-03024-x

**Synthesis, acetylcholinesterase (AChE) and butyrylcholinesterase (BuChE) activities, and molecular docking studies of a novel compound based on combination of flurbiprofen and isoniazide** 2020

*Naseem Iqbal Tayyaba Noor Amina Asghar Muhammad Yousuf Ghulam Fareed Rabia Nazir Abida Hassan Aneela Maalik Lubna Rasheed*

*RSC Advances* , Volume 10, Issue 33, Pages 19346–19352

**Impact Factor:** 3.361 | **Quartile:** 2 | **Citations:** 36
**DOI:** DOI: 10.1039/d0ra02339f

**Ultrasonication treatment enhances MOF surface area and gas uptake capacity** 2020

*Dr. Tayyaba Noor Dr. Naseem Iqbal Aisha Asghar*

*Polyhedron* , Volume 181, Article Number 114463

**Impact Factor:** 3.052 | **Quartile:** 2 | **Citations:** 30
**DOI:** https://doi.org/10.1016/j.poly.2020.114463

**Ethylenediamine loading into a manganese-based metal–organic framework enhances water stability and carbon dioxide uptake of the framework** 2020

*Tayyaba Noor Naseem Iqbal Aisha Asghar Leena Aftab Benson M. Kariuki Luke Kidwell Timothy L. Easun*

*Royal Society Open Science* , Volume 7, Article Number 191934

**Impact Factor:** 2.963 | **Quartile:** 2 | **Citations:** 22
**DOI:** https://doi.org/10.1098/rsos.191934

**Effect of Zirconia on Hydrothermally Synthesized Co3O4/TiO2 Catalyst for NOx Reduction from Engine Emissions** 2020

*Tayyaba Noor Naseem Iqbal Muhammad Habib-ur-Rehman*

*Catalysts* , Volume 10(2), Article Number 209

**Impact Factor:** 4.146 | **Quartile:** 2 | **Citations:** 12
**DOI:** https://doi.org/10.3390/catal10020209

**Adsorption and kinetic study of Cr(VI) on ZIF-8 based composites** 2020

*Javeria Begum Zakir Hussain Tayyaba Noor*

*Materials Research Express* , Volume 7, Article Number 015083

**Impact Factor:** 1.620 | **Quartile:** 4 | **Citations:** 31
**DOI:** https://doi.org/10.1088/2053-1591/ab6b66

**Kinetic evaluation and comparative study of cationic and anionic dyes adsorption on Zeolitic Imidazolate frameworks based metal organic frameworks** 2019

*Tayyaba Noor Naseem Iqbal Umair Raff Lubna Yaqoob Neelam Zaman*

*Materials Research Express*, Volume 6, Article Number 125088

**Impact Factor:** 1.929 | **Quartile:** 3 | **Citations:** 22

**DOI:** https://doi.org/10.1088/2053-1591/ab5bdf

**ZIF derived PtNiCo/NC cathode catalyst for proton exchange membrane fuel cell** 2019

*Saadia Hanif Xuan Shi Naseem Iqbal Tayyaba Noor Rehan Anwar A.M. Kannan*

*Applied Catalysis B: Environmental*, Volume 258, Article Number UNSP 117947

**Impact Factor:** 16.683 | **Quartile:** 1 | **Citations:** 102

**DOI:** 10.1016/j.apcatb.2019.117947

**Antimicrobial and antibiofilm potential of bacteriocin loaded nano-vesicles functionalized with rhamnolipids against foodborne pathogens** 2019

*Tayyaba Noor Taskeen Niaz Saima Shabbir Muhammad Imran*

*LWT - Food Science and Technology*, Volume 116, Article Number 108583

**Impact Factor:** 4.006 | **Quartile:** 1 | **Citations:** 62

**DOI:** https://doi.org/10.1016/j.lwt.2019.108583

**Development of Nickel-BTC-MOF-Derived Nanocomposites with rGO Towards Electrocatalytic Oxidation of Methanol and Its Product Analysis** 2019

*Tayyaba Noor Naseem Iqbal Lubna Yaqoob Habib Nasir Neelam Zaman*

*Catalysts*, Volume 9, Issue 10, Article Number 856

**Impact Factor:** 3.520 | **Quartile:** 2 | **Citations:** 91

**DOI:** https://doi.org/10.3390/catal9100856

**Novel amine functionalized metal organic framework synthesis for enhanced carbon dioxide capture** 2019

*Naseem Iqbal Tayyaba Noor Junaid Khan Aisha Asghar*

*Materials Research Express*, Volume 6, Issue 10, Article Number 105539

**Impact Factor:** 1.929 | **Quartile:** 3 | **Citations:** 31

**DOI:** 10.1088/2053-1591/ab3ff8

**Chitosan-albumin based core shell-corona nano-antimicrobials to eradicate resistant gastric pathogen** 2019

*Tayyaba Noor Taskeen Niaz Ayesha Ihsan Rashda Abbasi Saima Shabbir Muhammad Imran*

*International Journal of Biological Macromolecules*, Volume 138, Pages 1006-1018

**Impact Factor:** 5.162 | **Quartile:** 1 | **Citations:** 30

**DOI:** 10.1016/j.ijbiomac.2019.07.165

**Development of ZIF-Derived Nanoporous Carbon and Cobalt Sulfide-Based Electrode Material for Supercapacitor** 2019

*Naseem Iqbal Tayyaba Noor Rabia Ahmad*

*Materials*, Volume, 12, Issue 18

**Impact Factor:** 3.057 | **Quartile:** 2 | **Citations:** 28

**DOI:** 10.3390/ma12182940

**Efficient One-Pot Synthesis of a Hexamethylenetetramine-Doped Cu-BDC Metal-Organic Framework with Enhanced CO2 Adsorption** 2019

*Tayyaba Noor Aisha Asghar Naseem Iqbal Majid Ali Timothy L. Easun*

*Nanomaterials*, Volume 9, Issue 8, Article Number 1063

**Impact Factor:** 4.324 | **Quartile:** 2 | **Citations:** 30

**DOI:** 10.3390/nano9081063

**A Highly Efficient and Stable Copper BTC Metal Organic Framework Derived Electrocatalyst for Oxidation of Methanol in DMFC Application** 2019

*Muhammad Ammad Naseem Iqbal Tayyaba Noor Neelam Zaman Lubna Yaqoob Habib Nasir*

*Catalysis Letter*, Volume 149, Pages 3312-3327

**Impact Factor:** 2.482 | **Quartile:** 2 | **Citations:** 75

**DOI:** https://doi.org/10.1007/s10562-019-02904-6

**Electro catalytic study of NiO-MOF/rGO composites for methanol oxidation reaction** 2019

*Tayyaba Noor Neelam Zaman Habib Nasir Naseem Iqbal Zakir Hussain*

*Electrochimica Acta*, Volume 307, Pages 1-12

**Impact Factor:** 6.215 | **Quartile:** 1 | **Citations:** 137

**DOI:** 10.1016/j.electacta.2019.03.116

**Synergistic effect on co-pyrolysis of rice husk and sewage sludge by thermal behavior, kinetics, thermodynamic parameters and artificial neural network** 2019

*Salman Raza Naqvi Zeeshan Hameed Rumaisa Tariq Syed A. Taqvi Imtiaz Ali Muhammad Bilal Khan Niazi Tayyaba Noor Arshad Hussain Naseem Iqbal Muhammad Shahbaz*

*Waste Management*, NULL

**Impact Factor:** 5.448 | **Quartile:** 1 | **Citations:** 194

**DOI:** 10.1016/j.wasman.2018.12.031

**Pyrolysis of high-ash sewage sludge: Thermo-kinetic study using TGA and artificial neural networks** 2018

*Salman Raza Naqvi Rumaisa Tariq Zeeshan Hameed Imtiaz Ali Syed A. Taqvi Muhammad Naqvi Muhammad Bilal Khan Niazi Tayyaba Noor Wasif Farooq*

*Fuel*, Volume 233, Pages 529-538

**Impact Factor:** 5.128 | **Quartile:** 1 | **Citations:** 190

**DOI:** 10.1016/j.fuel.2018.06.089

**Potential of polymer stabilized nano-liposomes to enhance antimicrobial activity of nisin Z against foodborne pathogens** 2018

*Taskeen Niaz Saima Shabbir Dr. Tayyaba Noor Dr. Abdur Rahman Habib Bokhari Muhammad Imran*

*LWT Food Science and Technology*, Volume 96, Pages 98-110

**Impact Factor:** 3.714 | **Quartile:** 1 | **Citations:** 77

**DOI:** 10.1016/j.lwt.2018.05.029

**New trends in improving gasoline quality and octane through naphtha isomerization: a short review** 2018

*Salman Raza Naqvi Muhammad Naqvi Tayyaba Noor Abdul?Sattar Nizami Mohammad Rehan Muhammad Ayoub Ayesha Bibi*

*Applied Petrochemical Research*, Volume 8, Pages 131–139

**Impact Factor:** -

**DOI:** 10.1007/s13203-018-0204-y

**Effect of Co-Ni Ratio in Graphene Based Bimetallic Electro-catalyst for Methanol Oxidation** 2018

*Ehtsham Sarwar Tayyaba Noor Y. Mehmood S. Ahmed R. Mehek Naseem Iqbal*

*Fuel Cells*, Volume 18, No. 2, Pages 189-194

**Impact Factor:** 2.330 | **Quartile:** 3 | **Citations:** 57

**DOI:** 10.1002/fuce.201700143

**Polyelectrolyte Multicomponent Colloidosomes Loaded with Nisin Z for Enhanced Antimicrobial Activity against Foodborne Resistant Pathogens** 2018

*Taskeen Niaz Saima Shabbir Tayyaba Noor Rashda Abbasi Zulfiqar A. Raza Muhammad Imran*

*Frontiers in Microbiology*, NULL

**Impact Factor:** 4.259 | **Quartile:** 1 | **Citations:** 55

**DOI:** 10.3389/fmicb.2017.02700

**Development of Hydrotalcite Based Cobalt Catalyst by Hydrothermal and Co-precipitation Method for Fischer-Tropsch Synthesis** 2017

*M. Faizan Sharif Muhammad Arslan Naseem Iqbal Nisar Ahmad Tayyaba Noor*

*Bulletin of Chemical Reaction Engineering and Catalysis*, Volume 12, Issue 3, Pages 357-362

**Impact Factor:** 0 | **Citations:** 1

**DOI:** 10.9767/bcrec.12.3.762.357-363

**Novel Co-MOF/Graphene Oxide Electrocatalyst for Methanol Oxidation** 2017

*Rimsha Mehek Naseem Iqbal Tayyaba Noor Habib Nasir Yasir Mehmood Safeer Ahmed*

*Electrochimica Acta*, Volume 255, Pages 195-204

**Impact Factor:** 5.116 | **Quartile:** 1 | **Citations:** 165

**DOI:** 10.1016/j.electacta.2017.09.164

**Triazolothiadiazines as a New Class of Efficient DNA Intercalating Agents** 2017

*Aliya ibrar Shamyla Nawazish Imtiaz Khan Tayyaba Noor Bushra Uzair Syed Majid Bukhari Farhan A. Khan Asma Zaidi*

*Acta Poloniae Pharmaceutica*, Volume 74, Issue 5, Pages 1405-1411

**Impact Factor:** 0.531 | **Quartile:** 4

**DOI:** http://ptf.content-manager.pl/pub/File/Acta_Poloniae/2017/Nr%205/1405.pdf

**Effect of synthesis route on catalytic properties and performance of $Co_3O_4$/$TiO_2$ for carbon monoxide and hydrocarbon oxidation under real engine operating conditions** 2017

*Waleed Ahmad Tayyaba Noor Muhammad Zeeshan Ali Khan*

*Catalysis Communications*, Volume: 89, Pages: 19-24

**Impact Factor:** 3.463 | **Quartile:** 2 | **Citations:** 38
**DOI:** 10.1016/j.catcom.2016.10.012

**Pharmacology and synthesis of daurichromenic acid as a potent anti-HIV agent** 2015
*Syed Majid Bukhari Iftikhar Ali Asma Zaidi Naseem Iqbal Tayyaba Noor Rashad Mehmood Muhammad Salman Chishti Basit Naz Umer Rashid Muhammad Atif*
*Acta Poloniae Pharmaceutica* , Volume 72, No. 6, Pages 1059-1071
**Impact Factor:** 0.877 | **Quartile:** 4
**DOI:** http://ptfarm.pl/pub/File/Acta_Poloniae/2015/6/1059%20poprawka.pdf

**Advances in Pharmacology of Isatin and its Derivatives: A Review** 2015
*Farhan A Khan Aneela Maalik Tayyaba Noor Asma Zaidi Umar Farooq Syed Majid Bukhari*
*Tropical Journal of Pharmaceutical Research*, Tropical Journal of Pharmaceutical Research Volume: 14 Issue: 10 Pages: 1937-1942
**Impact Factor:** 0.543 | **Quartile:** 4 | **Citations:** 70
**DOI:** 10.4314/tjpr.v14i10.28

**Ethnobotanical, Phytochemical and Pharmacological Aspects of Daphne mucronata (Thymeleaceae)** 2015
*Asma Zaidi Syed Majid Bukhari Farhan A Khan Tayyaba Noor Naseem Iqbal*
*Tropical Journal of Pharmaceutical Research*, Volume: 14 Issue: 8 Pages: 1517-1523
**Impact Factor:** 0.543 | **Quartile:** 4 | **Citations:** 30
**DOI:** 10.4314/tjpr.v14i8.27

**Production of fuel-cell grade hydrogen by sorption enhanced water gas shift reaction using Pd/Ni Co catalysts** 2014
*Tayyaba Noor María V. Gil De Chena*
*Applied Catalysis B: Environmental*, Volumes 150–151, Pages 585-595
**Impact Factor:** 7.435 | **Quartile:** 1 | **Citations:** 50
**DOI:** 10.1016/j.apcatb.2014.01.002

## Conference Proceedings

**ZIF/MOF derived nanoporous carbon-based bifunctional oxygen electrode catalyst for metal air batteries** 2024
*Dr. Naseem Iqbal Dr. Tayyaba Noor*
*The 8th International Conference on Materials Sciences and Nanomaterials (ICMSN 2024)*, res.country(231,)
**Citations:** N/A
**DOI:** Nil

**Comparison of BDC linker based MOFs for carbon dioxide trapping; curb climate change** 2020
*Aisha Asghar Naseem Iqbal Tayyaba Noor Aisha Asghar Naseem Iqbal Tayyaba Noor*
*IEEE Green Technologies Conference (GreenTech)*, res.country(233,)
**Citations:** N/A
**DOI:** 10.1109/GreenTech46478.2020.9289756

**Ethylendiamine (EDA) loading on MOF-5 for enhanced carbon dioxide capture applications** 2019
*Aisha Asghar Junaid Khan Naseem Iqbal Tayyaba Noor*
*9th International Conference on Environment Science and Engineering*, res.country(20,)
**Citations:** N/A
**DOI:** https://doi.org/10.1088/1755-1315/471/1/012009

**Catalytic Pyrolysis Of Botryococcus Braunii (microalgae) Over Layered and Delaminated Zeolites For Aromatic Hydrocarbon Production** 2017
*Salman Raza Naqvi M. Naqvib Tayyaba Noor Arshad Hussain Naseem Iqbal yoshimitsu uemura N. Nishiyama*
*9th International Conference on Applied Energy, ICAE2017, 21-24 August 2017, Cardiff, UK*, res.country(231,)
**Citations:** N/A
**DOI:** 10.1016/j.egypro.2017.12.060

## Book Chapters

**Advanced Biotechnological Approaches for the Management of Plastic Waste** 2025

*Lubna Yaqoob Tayyaba Noor Naseem Iqbal*

In: *Smart Waste and Wastewater Management by Biotechnological Approaches* , Chapter 6, Pages 99-126

**Citations:** N/A

**DOI:** https://doi.org/10.1007/978-981-97-8673-2_6

**Metal-organic frameworks based elecrode materials for supercapacitor application** 2024

*Rabia Ahmad Dr Naseem Iqbal Usman Ali Khan Maryam Raza Iqra Shaukat Dr. Tayyaba Noor*

In: *Metal Organic Frameworks Fundamentals to Advanced*, Chapter: 11, 1st Edition, Pages: 209-234

**Citations:** N/A

**DOI:** 10.1016/B978-0-443-15259-7.00004-8

**Metal–Organic Frameworks (MOFs) Derived Electrode Electrocatalyst for Lithium-Ion Batteries.** 2024

*Lubna Yaqoob Tayyaba Noor Naseem Iqbal*

In: *Book on Atomically Precise Electrocatalysts for Electrochemical Energy Applications*, 1st Edition, Chapter 18, Pages 315-344

**Citations:** N/A

**DOI:** https://doi.org/10.1007/978-3-031-54622-8_18

## Editorial Activities

**Diamond and Related Materials** 2024

Reviewed Papers for Journals

**Impact Factor:** 4.3

**European Journal of Inorganic Chemistry** 2024

Reviewed Papers for Journals

**Impact Factor:** 2.2

**Inorganic Chemistry Communications** 2024

Reviewed Papers for Journals

**Impact Factor:** 4.4

**Journal of Alloys and Compounds** 2024

Reviewed Papers for Journals

**Impact Factor:** 5.8

**Chemical Engineering Journal** 2024

Reviewed Papers for Journals

**Impact Factor:** 13.3

**Processes** 2024

Reviewed Papers for Journals

**Impact Factor:** 2.8

**International Journal of Hydrogen Energy** 2024

Reviewed Papers for Journals

**Impact Factor:** 8.1

**International Journal of Hydrogen Energy** 2024

Reviewed Papers for Journals

**Impact Factor:** 8.1

**Diamond & Related Materials** 2024

Reviewed Papers for Journals

**Impact Factor:** 4.3

**Diamond & Related Materials** 2024

Reviewed Papers for Journals

**Impact Factor:** 4.3

**Chemical Engineering Journal** 2024

Reviewed Papers for Journals

**Impact Factor:** 13.3

**Reaction Chemistry & Engineering** 2024

Reviewed Papers for Journals

**Impact Factor:** 3.4

**Inorganic Chemistry Communications** 2024
Reviewed Papers for Journals
**Impact Factor:** 4.4

**Journal of Alloys and Compounds** 2024
Reviewed Papers for Journals
**Impact Factor:** 5.8

**Carbon Letters** 2024
Reviewed Papers for Journals
**Impact Factor:** 5.5

**Journal of Central South University** 2024
Reviewed Papers for Journals
**Impact Factor:** 3.7

**Electrochimica Acta** 2024
Reviewed Papers for Journals
**Impact Factor:** 5.5

**Australian Journal of Chemistry** 2024
Reviewed Papers for Journals
**Impact Factor:** 1.1

**Scientific Reports** 2024
Reviewed Papers for Journals
**Impact Factor:** 3.8

**Inorganic Chemistry Communications** 2024
Reviewed Papers for Journals
**Impact Factor:** 4.4

**Inorganic Chemistry Communications** 2024
Reviewed Papers for Journals
**Impact Factor:** 4.4

**Journal of Cluster Science** 2024
Reviewed Papers for Journals
**Impact Factor:** 2.7

**Inorganic Chemistry Communications** 2024
Reviewed Papers for Journals
**Impact Factor:** 3.8

**Journal of Cluster Science** 2024
Reviewed Papers for Journals
**Impact Factor:** 2.8

**Thin Solid Films** 2024
Reviewed Papers for Journals
**Impact Factor:** 2.1

**Diamond & Related Materials** 2024
Reviewed Papers for Journals
**Impact Factor:** 4.1

**Energy advances** 2024
Reviewed Papers for Journals
**Impact Factor:** 0

**Journal of Central South University** 2024
Reviewed Papers for Journals
**Impact Factor:** 4.4

**Applied Catalysis B: Environment and Energy** 2024
Reviewed Papers for Journals
**Impact Factor:** 22.1

**International Journal of Hydrogen Energy** 2024

Reviewed Papers for Journals
**Impact Factor:** 7.2

**Energy Reports** 2024
Reviewed Papers for Journals
**Impact Factor:** 5.2

**Fluid dynamics & materials processing** 2024
Reviewed Papers for Journals
**Impact Factor:** 1.3

**Journal of Fluorescence** 2024
Reviewed Papers for Journals
**Impact Factor:** 2.7

**Journal of Electroanalytical Chemistry** 2024
Reviewed Papers for Journals
**Impact Factor:** 4.5

**Journal of Alloys and Compounds** 2024
Reviewed Papers for Journals
**Impact Factor:** 6.2

**Catalysis Research** 2024
Reviewed Papers for Journals
**Impact Factor:** N/A

2022
Reviewed Papers for Journals
**Impact Factor:** 7.336

2022
Reviewed Papers for Journals
**Impact Factor:** 4.383

2022
Reviewed Papers for Journals
**Impact Factor:** 24.319

2021
Reviewed Papers for Journals
**Impact Factor:** 6.371

2021
Reviewed Papers for Journals
**Impact Factor:** 7.139

2021
Reviewed Papers for Journals
**Impact Factor:** 6.371

2021
Reviewed Papers for Journals
**Impact Factor:** 5.316

2021
Reviewed Papers for Journals
**Impact Factor:** 5.227

2021
Reviewed Papers for Journals
**Impact Factor:** 3.939

2021
Reviewed Papers for Journals
**Impact Factor:** 3.741

2021
Reviewed Papers for Journals
**Impact Factor:** 1.004

2021

Reviewed Papers for Journals
**Impact Factor:** 42.84

2021

Reviewed Papers for Journals
**Impact Factor:** 1.811

2020

Reviewed Papers for Journals
**Impact Factor:** 4.65

2020

Reviewed Papers for Journals
**Impact Factor:** 4.65

2020

Reviewed Papers for Journals
**Impact Factor:** 2.394

2020

Reviewed Papers for Journals
**Impact Factor:** 4.794

2020

Reviewed Papers for Journals
**Impact Factor:** 4.65

2020

Reviewed Papers for Journals
**Impact Factor:** 4.65

2020

Reviewed Papers for Journals
**Impact Factor:** 2.394

2020

Reviewed Papers for Journals
**Impact Factor:** 11.23

2020

Reviewed Papers for Journals
**Impact Factor:** 3.421

2020

Reviewed Papers for Journals
**Impact Factor:** 4.794

2020

Reviewed Papers for Journals
**Impact Factor:** 3.807

2020

Reviewed Papers for Journals
**Impact Factor:** 2.55

2020

Reviewed Papers for Journals
**Impact Factor:** 1.68

2020

Reviewed Papers for Journals
**Impact Factor:** 3.807

2020

Reviewed Papers for Journals
**Impact Factor:** 2.87

2020

Reviewed Papers for Journals

**Impact Factor:** 2.526

2019

Reviewed Papers for Journals
**Impact Factor:** 1.91

2019

Reviewed Papers for Journals
**Impact Factor:** 5.155

2019

Reviewed Papers for Journals
**Impact Factor:** 3.343

## Trainings

**Aging Studies of Energetic Materials (Propellant and Explosive)** 2024
**Partner:** Defense/Strategic Organization
**Duration:** 15-Jan-2024 to 19-Jan-2024

**High Performance Liquid Chromatography (HPLC) For analysis of Energetic Materials** 2023
**Partner:** Pakistan Air Force
**Duration:** 02-Oct-2023 to 06-Oct-2023

**3 Weeks workshop on Energetic Materials vis-a-vis their Chemistry, Formulation & Safety Aspects** 2023
**Partner:** Defense/Strategic Organization
**Duration:** 22-May-2023 to 09-Jun-2023

**The Science Fun 2023** 2023
**Partner:** None
**Duration:** 12-Apr-2023 to 21-Jul-2023

**Modification in formulation of Energetic Materials & their effects** 2023
**Partner:** Defense/Strategic Organization
**Duration:** 06-Mar-2023 to 10-Mar-2023

**Modification in formulation of Energetic Materials & their effects** 2022
**Partner:** Defense/Strategic Organization
**Duration:** 29-Aug-2022 to 02-Sep-2022

**Aging Studies of Energetic Materials (Propellant and Explosive), 13- 17 June 2022** 2022
**Partner:** Defense/Strategic Organization
**Duration:** 13-Jun-2022 to 17-Jun-2022

**Workshop on Energetic Materials-Modern Developments, Trends and Challenges 11-15 October 2021** 2021
**Partner:** Defense/Strategic Organization
**Duration:** 11-Oct-2021 to 15-Oct-2021