

Tayyaba Noor

Associate Professor

School of Chemical & Materials Engineering

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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 5835, carried out 5 projects and filed 0 intellectual property.

Qualifications

PhD in Chemical Engineering Norwegian University of Science and Technology , Norway	2008 - 2013
MPhil in Chemistry Quaid-i-Azam University , Pakistan	2004 - 2006
MSc in Chemistry Quaid-i-Azam University , Pakistan	2002 - 2004

Experience

Associate Professor School of Chemical & Materials Engineering	2025- Present
Associate Professor School of Chemical & Materials Engineering	2024 - 2024
Associate Professor School of Chemical & Materials Engineering	2022 - 2019
Associate Professor School of Chemical & Materials Engineering	2019 - 2025
Assistant Professor School of Chemical & Materials Engineering	2014 - 2006
Lecturer School of Chemical & Materials Engineering	2006 - 2022
Researcher Norwegian University of Science and Technology (NTNU) , Department of Chemical Engineering, Norwegian University of Science and Technology (NTNU), Norway	2013 - 2014

Awards

School / College Best Researcher Awards-2021	2022
Best Teacher Award Best Teacher Award Academic year 2016	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. Funding Agency: NUST Amount: PKR 18,000,000.00 Status: Completed	2023
Designing next generation high energy density Li-based batteries and advanced supercapacitors Funding Agency: HEC Amount: PKR 4,500,000.00 Status: Completed	2021
Synthesis and characterization of highly stable and efficient non precious metal catalyst for photo-electrochemical water splitting: A step towards clean energy Funding Agency: HEC Amount: PKR 7,690,000.00 Status: Completed	2019
Development of metal organic framework (MOFs) based sorbents for hydrogen storage and CO 2 capture applications Funding Agency: HEC Amount: PKR 9,850,000.00 Status: Completed	2017
Novel Materials for Secondary Sodium-ion Batteries and Proton Exchange Membrane Fuel Cells Funding Agency: PSF Amount: PKR 1,900,000.00 Status: Completed	2017

International Projects

Research Articles

Reducing the grain boundary resistance by Al and Gd co-doping in LLZO-based solid-state electrolyte for lithium batteries 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	2025
α-MnO2@ZIF-67 as bifunctional electrocatalyst for air cathode in high performance rechargeable zinc-air batteries 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	2025
Pyrolysis of lignite coal and waste tires for liquid fuel production 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	2025
Optimization of ionic conductivity of Li7La3Zr2O12 garnet-based solid electrolyte for lithium batteries by LiClO4 filler incorporation 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	2025
Design and synthesis of low Pt-loaded Mn-ZIF-67 derived bifunctional electrocatalyst for oxygen electrode in metal–air batteries 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	2025

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](https://doi.org/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](https://doi.org/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

Biodiesel production from marine macroalgae *Ulva lactuca* lipids using novel Cu-BTC@AC catalyst:

2024

Parametric analysis and optimization

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

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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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

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/Ti₃C₂T_x 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>

<p>Potential of pectin-chitosan based composite films embedded with quercetin-loaded nanofillers to control meat associated spoilage bacteria</p> <p><i>Syed Muhammad Afroz Ali Taskeen Niaz Anas Munir Ramla Shahid Saima Shabbir Tayyaba Noor Muhammad Imran</i> <i>Food Bioscience</i> , Volume 53, Article Number 102547</p> <p>Impact Factor: 5.318 Quartile: 1 Citations: 27 DOI: https://doi.org/10.1016/j.fbio.2023.102547</p>	2023
<p>Electrocatalytic activity of Cu MOF and its g-C3N4-based composites for oxygen reduction and evolution reaction in metal-air batteries</p> <p><i>Haroon Hayat Tayyaba Noor Naseem Iqbal Rabia Ahmad Neelam Zaman Yan Huang</i> <i>Journal of Environmental Chemical Engineering</i> , Volume 11, Issue 3, Article Number 109627</p> <p>Impact Factor: 7.968 Quartile: 1 Citations: 30 DOI: 10.1016/j.jece.2023.109627</p>	2023
<p>Advances in MXenes synthesis and MXenes derived electrocatalysts for oxygen electrode in metal-air batteries: A review</p> <p><i>Muhammad Mudassar Aslam Tayyaba Noor Naseem Iqbal</i> <i>Materials Science and Engineering: B</i> , Volume 292, Article Number 116400</p> <p>Impact Factor: 3.407 Quartile: 2 Citations: 16 DOI: https://doi.org/10.1016/j.mseb.2023.116400</p>	2023
<p>Development of high-capacity surface-engineered MXene composite for heavy metal Cr (VI) removal from industrial wastewater</p> <p><i>Umair Ali Asif Khalid Mahmood Salman Raza Naqvi Muhammad Taqi Mehran Tayyaba Noor</i> <i>Chemosphere</i> , Volume 326, Article Number 138448</p> <p>Impact Factor: 8.943 Quartile: 1 Citations: 21 DOI: https://doi.org/10.1016/j.chemosphere.2023.138448</p>	2023
<p>LSTN (La0.4Sr0.4Ti0.9Ni0.1O3.8) perovskite and graphitic carbon nitride (gC3N4) hybrids as a bifunctional electrocatalyst for water-splitting applications</p> <p><i>Umair Ali Asif Tayyaba Noor Erum Pervaiz Naseem Iqbal Neelam Zaman</i> <i>Journal of Alloys and Compounds</i> , Volume 939, Article Number 168668</p> <p>Impact Factor: 6.371 Quartile: 1 Citations: 33 DOI: https://doi.org/10.1016/j.jallcom.2022.168668</p>	2023
<p>Advances in production & activation of marine macroalgae-derived biochar catalyst for sustainable biodiesel production</p> <p><i>Muhammad Zubair Yameen Hamad AlMohamadi Salman Raza Naqvi Tayyaba Noor Wei-Hsin Chen Nor Aishah Saidina Amin</i> <i>Fuel</i> , Volume 337, Article Number 127215</p> <p>Impact Factor: 8.035 Quartile: 1 Citations: 38 DOI: https://doi.org/10.1016/j.fuel.2022.127215</p>	2023
<p>CO2 adsorption study of the zeolite imidazolate framework (ZIF-8) and its g-C3N4 composites</p> <p><i>Arif Ullah Khan Tayyaba Noor Naseem Iqbal Neelam Zaman Zakir Hussain</i> <i>Journal of Materials Science</i> , Volume 58, Issue 9, Pages 3947-3959</p> <p>Impact Factor: 4.682 Quartile: 2 Citations: 11 DOI: https://doi.org/10.1007/s10853-023-08253-5</p>	2023
<p>Recent progress in catalytic deoxygenation of biomass pyrolysis oil using microporous zeolites for green fuels production</p> <p><i>Salman Raza Naqvi Asif Hussain Khoja Imtiaz Ali Muhammad Naqvi Tayyaba Noor Awais Ahmad Rafael Luque Nor Aishah Saidina Amin</i> <i>Fuel</i> , Volume 333, Part 1, Article Number 126268</p> <p>Impact Factor: 8.035 Quartile: 1 Citations: 66 DOI: https://doi.org/10.1016/j.fuel.2022.126268</p>	2023
<p>Metal-organic framework derived vanadium oxide supported nanoporous carbon structure as a bifunctional electrocatalyst for potential application in metal air batteries</p> <p><i>Rimsha Mehek Naseem Iqbal Tayyaba Noor Zahid Ali Ghazi Muhammad Umair</i> <i>RSC Advances</i> , Volume 13, Issue 1, Pages 652-664</p> <p>Impact Factor: 4.036 Quartile: 2 Citations: 15 DOI: 10.1039/D2RA06688B</p>	2023
<p>Hierarchical Flower-like NiMn-LDH@MnCo2S4 Grown on Nickle Foam as a High-Specific Capacity Faradaic Electrode</p> <p><i>M. Arsalan Raza Naseem Iqbal Tayyaba Noor Zahid Ali Ghazi</i></p>	2022

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>

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:** 57
DOI: <https://doi.org/10.1016/j.chemosphere.2022.135736>

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>

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: <https://doi.org/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

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Impact Factor: 7.968 | **Quartile:** 1 | **Citations:** 25
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Impact Factor: 5.165 | **Quartile:** 2 | **Citations:** 65
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Synthesis of NaNiF₃ and its composite with multi-walled carbon nanotubes as cathode materials for aqueous sodium-ion battery

2022

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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

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Impact Factor: 4.465 | **Quartile:** 1 | **Citations:** 26
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High–Selective Separation Performance of CO₂ from CH₄ by Interfacial Engineering of Ultra-low-dose Bimetallic Pyrazine-MOF based Mixed Matrix Membranes

2022

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Impact Factor: 4.464 | **Quartile:** 1 | **Citations:** 8

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Electrocatalytic study of Cu/Ni MOF and its g-C₃N₄ composites for methanol oxidation reaction

2022

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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

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International Journal of Biological Macromolecules, Volume 204, Pages 540-554

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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

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Polymers and Polymer Composites, Volume 30, Pages 1-12

Impact Factor: 1.841 | **Quartile:** 3 | **Citations:** 11

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2022

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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

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Impact Factor: 6.901 | **Quartile:** 2 | **Citations:** 22

DOI: <https://doi.org/10.1016/j.electacta.2021.139739>

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2021

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Impact Factor: 4.672 | **Quartile:** 1 | **Citations:** 22

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A TiO₂ composite with graphitic carbon nitride as a photocatalyst for biodiesel production from waste cooking oil

2021

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DOI: <https://doi.org/10.1039/d1ra07796a>

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<p>A comprehensive overview of dual-layer composite membrane for air (O₂/N₂) separation</p> <p><i>Syed Shujaat Karim Sarah Farrukh Arshad Hussain Tayyaba Noor Mohammad Younas</i></p> <p><i>Polymers and Polymer Composites</i> , Volume 29, Issue 9, Pages S1630-S1640</p> <p>Impact Factor: 3.171 Quartile: 2 Citations: 14</p> <p>DOI: doi.org/10.1177/09673911211045852</p>	2021
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<p>Cerium based metal organic framework derived composite with reduced graphene oxide as efficient supercapacitor electrode</p> <p><i>Usman Ali Khan Naseem Iqbal Tayyaba Noor Rabia Ahmad Awais Ahmad Junkuo Gao Zain Amjad Abdul Wahab</i></p> <p><i>Journal of Energy Storage</i> , Volume 41, Article Number 102999</p> <p>Impact Factor: 8.907 Quartile: 1 Citations: 45</p> <p>DOI: https://doi.org/10.1016/j.est.2021.102999</p>	2021
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<p>Synthesis, characterization and CO₂ adsorption studies of DABCO based pillared Zn-BDC and Co-BDC metal organic frameworks</p> <p><i>Ijlal Aamer Naseem Iqbal Tayyaba Noor Aisha Asghar</i></p> <p><i>Material Research Express</i> , Volume 8, Number 7, Article Number 075506</p> <p>Impact Factor: 2.025 Quartile: 4 Citations: 14</p> <p>DOI: https://doi.org/10.1088/2053-1591/ac14ff</p>	2021
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<p>Electrocatalytic Performance of NiNH₂BDC MOF Based Composites with rGO For Methanol Oxidation Reaction</p> <p><i>Lubna Yaqoob Tayyaba Noor Naseem Iqbal Habib Nasir Asad Mumtaz</i></p> <p><i>Scientific Reports</i> , Volume 11, Article Number 13402</p> <p>Impact Factor: 4.379 Quartile: 1 Citations: 37</p>	2021

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

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2021

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

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

2021

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DOI: <https://doi.org/10.1016/j.jelechem.2021.115249>

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

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

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2021

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

DOI: 10.1039/D1RA01841H

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2021

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

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2021

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

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2021

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

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

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2021

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

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2021

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

DOI: 10.1039/d0gc03292a

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

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2021

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

DOI: <https://doi.org/10.1016/j.jallcom.2020.156583>

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Editorial Activities

Diamond and Related Materials Reviewed Papers for Journals Impact Factor: 4.3	2024
European Journal of Inorganic Chemistry Reviewed Papers for Journals Impact Factor: 2.2	2024
Inorganic Chemistry Communications Reviewed Papers for Journals Impact Factor: 4.4	2024
Journal of Alloys and Compounds Reviewed Papers for Journals Impact Factor: 5.8	2024
Chemical Engineering Journal Reviewed Papers for Journals Impact Factor: 13.3	2024
Processes Reviewed Papers for Journals Impact Factor: 2.8	2024
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Chemical Engineering Journal Reviewed Papers for Journals Impact Factor: 13.3	2024
Reaction Chemistry & Engineering Reviewed Papers for Journals	2024

Impact Factor: 3.4	
Inorganic Chemistry Communications	2024
Reviewed Papers for Journals	
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Carbon Letters	2024
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Journal of Central South University	2024
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Electrochimica Acta	2024
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Australian Journal of Chemistry	2024
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Scientific Reports	2024
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Journal of Cluster Science	2024
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Diamond & Related Materials	2024
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Applied Catalysis B: Environment and Energy	2024
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Energy Reports	2024
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Fluid dynamics & materials processing	2024
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Journal of Fluorescence	2024
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Journal of Electroanalytical Chemistry	2024
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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	
Reviewed Papers for Journals	2022
Impact Factor: 7.336	
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Impact Factor: 1.004	

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Reviewed Papers for Journals Impact Factor: 1.811	2021
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Reviewed Papers for Journals	2019
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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	