

Naseem Iqbal

Professor

US-Pakistan Center for Advanced Studies in Energy

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About

Dr. Naseem Iqbal is working as Professor in the US-Pakistan Center for Advanced Studies in Energy. Dr. Naseem Iqbal has a PhD in Applied Synthetic Chemsitry. Dr. Naseem Iqbal has published 192 research articles & conference papers having a citation count of 5466, carried out 12 projects and filed 0 intellectual property.

Qualifications

PhD in Applied Synthetic Chemsitry Technische Universität Wien , Austria	2007 - 2011
MPhil in Organic Chemsitry Quaid-i-Azam University , Pakistan	2004 - 2006
MSc in Organic Chemistry University of the Punjab , Pakistan	2001 - 2003
BSc in Chemistry, Bootany, Zoology University of the Punjab , Pakistan	1999 - 2001

Experience

Professor US-Pakistan Center for Advanced Studies in Energy	2025- Present
Professor US-Pakistan Center for Advanced Studies in Energy	2024 - 2024
Professor US-Pakistan Center for Advanced Studies in Energy	2022 - 2021
Professor US-Pakistan Center for Advanced Studies in Energy	2021 - 2025
Associate Professor US-Pakistan Center for Advanced Studies in Energy	2019 - 2022
Associate Professor Centre for Energy System	2016 - 2015
Assistant Professor Centre for Energy System	2015 - 2019
Assistant Professor Centre for Energy System	2014 - 2016
Postdoctoral Fellow Norwegian University of Science and Technology , Trondheim Norway	2011 - 2014

Awards

University Best Researcher Awards- 2021	2022
Best Researcher USPCAS-E Best Researcher Award for USPCAS-E, 2019	2019

Research Projects

National Projects

Solid-state Zn-air/ion batteries for Green Energy Storage: A reliable / robust replacement of Li-Ion Batteries 2023

Funding Agency: NUST

Amount: PKR 65,000,000.00

Status: Approved_inprocess

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

Facile synthesis of Hollow Silica Mesospheres 2023

Funding Agency: NESCOM

Amount: PKR 300,000.00

Status: Approved_inprocess

Novel Materials for Secondary Sodium-Ion Batteries and Proton Exchange Membrane Fuel Cell 2017

Funding Agency: PSF

Amount: PKR 1,900,000.00

Status: Completed

Development of long-life and high-areal-capacity rechargeable lithiumsulfur batteries 2021

Funding Agency: HEC

Amount: PKR 200,000.00

Status: Approved_inprocess

Designing next generation high energy density Li-based batteries and advanced supercapacitors 2021

Funding Agency: HEC

Amount: PKR 4,500,000.00

Status: Completed

Liquid Fuel Production from Coal/Biomass derived Syngas 2016

Funding Agency: USAID / USPCASE

Amount: PKR 3,000,000.00

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

Industry Projects

National Projects

Advanced materials synthesis and testing facilities for sodium-ion batteries of USPCAS-E for Power Sodium Client: Power Sodium Amount: PKR 936,000.00 Status: Approved_inprocess	2024
Consultancy Fauji Cement Client: Fauji Cement Amount: PKR 25,000.00 Status: Completed	2023
Consultancy Chishti Traders Islamabad Client: Chisti Traders Amount: PKR 12,000.00 Status: Completed	2022

International Projects

Consultancy- NA International Faisalabad Client: NA International Amount: PKR 50,000.00 Status: Completed	2024
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Research Articles

Experimental study of solar-powered atmospheric water generator for extracting potable water from air <i>Syed Shabir Ahmed Ranjeet Kumar Nadia Shahzad Adeel Waqas Ahmad Naveed Hussain Roha Shahzad Naseem Iqbal Muhammad Imran Shahzad</i> <i>Chemical Engineering Research and Design</i> , Volume:219, Page:388-396 Impact Factor: 3.900 Quartile: 2 DOI: https://doi.org/10.1016/j.cherd.2025.06.015	2025
α-MnO2@ZIF-67 as bifunctional electrocatalyst for air cathode in high performance rechargeable zinc-air batteries <i>Rimsha Mehek Naseem Iqbal Tayyaba Noor</i> <i>Journal of Power Sources</i> , 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 <i>Asif Khan Naseem Iqbal Tayyaba Noor Ali Iqtidar Najam Khan</i> <i>Journal of the Energy Institute</i> , Volume 120, Article Number 102065 Impact Factor: 5.700 Quartile: 2 Citations: 1 DOI: https://doi.org/10.1016/j.joei.2025.102065	2025
Design and synthesis of low Pt-loaded Mn-ZIF-67 derived bifunctional electrocatalyst for oxygen electrode in metal–air batteries <i>Haleema Haseeb Naseem Iqbal Tayyaba Noor Jaria Zahra Rimsha Mehek</i> <i>Journal of Materials Science</i> , Volume:60, Issue:19, Pages 7872-7887 Impact Factor: 3.500 Quartile: 2 DOI: https://doi.org/10.1007/s10853-025-10919-1	2025
Manganese doped Ni-MOF derived porous carbon-based bifunctional oxygen electrode catalyst for metal air batteries <i>Naseem Iqbal Rabia Ahmad Tayyaba Noor Nadia Shahzad Muhammad Imran Shahzad</i> <i>Materials Chemistry and Physics</i> , Volume 334, Article Number 130448 Impact Factor: 4.300 Quartile: 2 Citations: 3 DOI: doi.org/10.1016/j.matchemphys.2025.130448	2025
Surface-finish induced textured electrodeposition on 20 μm Li-metal anode <i>Yuhang Hu Yong Li Haorui Hou Zidong Chen Yungui Chen Naseem Iqbal Wei Liu</i> <i>Energy Storage Materials</i> , Volume:76, Article Number 104160 Impact Factor: 18.900 Quartile: 1 DOI: https://doi.org/10.1016/j.ensm.2025.104160	2025

Synthesis of cellulose-based hydrogel electrolyte from sawdust waste for enhanced ionic conductivity in ssZIBs <i>00000403115-Nawal Saeed Rabia Liaquat Naseem Iqbal Tahreem Assad Khan</i> <i>Materials Science and Engineering: B</i> , Volume 313, Article Number 117951 Impact Factor: 3.900 Quartile: 1 Citations: 1 DOI: doi.org/10.1016/j.mseb.2024.117951	2025
Role of Co and Ni ferrites in the fabrication of Saccharum officinarum bioadsorbents for removing As(III) <i>Abdul Sattar Shahzad Hussain Fozia Bibi Saira Arif Dr Naseem Iqbal Muhammad Waseem</i> <i>Separation and Purification Technology</i> , Volume 354, Part 1, Article Number 128744 Impact Factor: 8.100 Quartile: 1 Citations: 3 DOI: 10.1016/j.seppur.2024.128744	2025
Influence of cobalt redox couple concentration on the characteristics of liquid and quasi-solid electrolytes and on the photovoltaic parameters of dye-sensitised solar cells <i>Kashan Ahmad Ahad hussain Javed Nadia Shahzad Muhammad Imran Shahzad Zuhair Subhani Khan Naseem Iqbal Memoona Qamar Adriano Sacco Diego Pugliese</i> <i>Applied Physics A: Materials Science and Processing</i> , Volume:131, Issue:3, Article Number 170 Impact Factor: 2.500 Quartile: 2 Citations: 1 DOI: https://link.springer.com/article/10.1007/s00339-025-08279-3	2025
Effect of lanthanum doped SnO2 on the performance of mixed-cation mixed-halide perovskite layer <i>Sana Mehmood Nadia Shahzad Saad Nadeem Muhammad Salik Qureshi Abdul Sattar Hina Pervaiz Naseem Iqbal Rabia Liaquat Muhammad Imran Shahzad</i> <i>Journal of Molecular Structure</i> , Volume 1321, Part 2, Article Number 139864 Impact Factor: 4.000 Quartile: 2 Citations: 1 DOI: https://doi.org/10.1016/j.molstruc.2024.139864	2025
Selective lithium recovery from spent LFP Li-ion batteries using organic acids <i>Maryam Ali Naseem Iqbal Tayyaba Noor Neelam Zaman</i> <i>Ionics</i> , Volume:31, Pages: 273-286 Impact Factor: 2.4 Quartile: 3 Citations: 2 DOI: https://doi.org/10.1007/s11581-024-05960-0	2025
Synergistic electrochemical performance of textile sludge based activated carbon with reduced graphene oxide as electrode for supercapacitor application <i>Naveed Ahmed Khan Zaib Jahan Naseem Iqbal Muhammad Bilal Khan Niazi Rimsha Mehek</i> <i>Waste Management</i> , Volume:191, Page:274-283 Impact Factor: 7.1 Quartile: 1 Citations: 6 DOI: https://doi.org/10.1016/j.wasman.2024.11.015	2025
Molten salt approach of zeolitic imidazole framework derived strontium doped porous carbon based bifunctional electrocatalysts for direct methanol fuel cell <i>Neelam Zaman Naseem Iqbal Tayyaba Noor Junkuo Gao</i> <i>Journal of Power Sources</i> , Volume 624, Article Number 235541 Impact Factor: 8.100 Quartile: 1 DOI: https://doi.org/10.1016/j.jpowsour.2024.235541	2024
Enhanced optoelectronic characteristics of La-doped ZnO and its compatibility with Cs-doped MAPbI3 perovskite absorber material <i>Ayesha Tabriz Nadia Shahzad Hina Pervaiz Muhammad Imran Shahzad Saad Nadeem Sana Mehmood Ghulam Ali Naseem Iqbal Diego Pugliese</i> <i>Physica Scripta</i> , Volume 99, Number 11, Article Number 115992 Impact Factor: 2.600 Quartile: 2 Citations: 1 DOI: 10.1088/1402-4896/ad868e	2024
Thermal management of lithium-ion batteries using Kraft paper honeycomb wall based novel cooling system for electric vehicles- An experimental investigation <i>Kashif Mushtaq Hassan Abdullah Khalid Hassan Nazir Naseem Iqbal Majid Ali Aamir Khan Adeel Waqas</i> <i>Journal of Energy Storage</i> , Volume 97, Part A, Article Number 112677 Impact Factor: 8.900 Quartile: 1 Citations: 1 DOI: https://doi.org/10.1016/j.est.2024.112677	2024
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

Sealing porous carbon via surface-initiated polymerization achieves low-surface-area Si-C microparticles for Li-ion batteries 2024

Dongsheng Yang Ming Chen Rui Han Yiteng Luo Hao Li Zhirong Kang Yungui Chen Ju Fu Naseem Iqbal Wei Liu

Nano Energy , Volume 127, Article Number 109744

Impact Factor: 16.800 | Quartile: 1 | Citations: 16

DOI: 10.1016/j.nanoen.2024.109744

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

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

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

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	
Efficient sorption of As(III) from water by magnetite decorated porous carbon extracted from a biowaste material <i>Fozia Bibi Razaqat Hussain Ahson Jabbar Shaikh Muhammad Waseem Dr Naseem Iqbal Suraj Loomba Muhammad Haris Nasir Mahmood Environmental Science and Pollution Research</i> , Volume:31, Issue:15, Page:22790-22801 Impact Factor: 5.8 Quartile: 1 Citations: 4 DOI: 10.1007/s11356-024-32624-3	2024
Improved rate capability and long cycle life of metal-organic framework derived TiO₂@V₂O₅ composite as an efficient cathode for sodium-ion batteries <i>Rimsha Mehek Dr Naseem Iqbal Omama Javed Dr. Tayyaba Noor Wei Liu Journal of Energy Storage</i> , Volume:78, Article Number: 109921 Impact Factor: 9.4 Quartile: 1 Citations: 11 DOI: 10.1016/j.est.2023.109921	2024
CO₂ adsorption properties of Ni-BDC MOF and its 1–8 wt% g-C₃N₄/Ni-BDC MOF <i>Muhammad Haris Azhar Tayyaba Noor Naseem Iqbal Neelam Zaman Sara Farrukh Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , Volume 299, Article Number: 117043 Impact Factor: 3.6 Quartile: 2 Citations: 5 DOI: 10.1016/j.mseb.2023.117043	2024
Metal–Organic Framework/Ti₃C₂T_x MXene-Derived Functional Nanostructures for High-Performance Supercapacitors <i>Dr Naseem Iqbal Dr. Tayyaba Noor Srinivasa Kartik Nemani Rabia Ahmad Likun Zhu Babak Anasori ACS Applied Nano Materials</i> , Vol: 7(1), Pages:253-266 Impact Factor: 5.9 Quartile: 2 Citations: 10 DOI: 10.1021/acsanm.3c04389	2023
Interrelation Between External Pressure, SEI Structure, and Electrodeposit Morphology in an Anode-Free Lithium Metal Battery <i>Wei Liu Y. Luo Yuhang Hu Zidong Chen Qiang Wang Yungui Chen, Dr Naseem Iqbal David Mitlin Advanced Energy Materials</i> , Article Number: 2302261, Pages: 13 Impact Factor: 27.8 Quartile: 1 Citations: 47 DOI: 10.1002/aenm.202302261	2023
Novel approach to grow nanosized BiFeO₃, CoFe₂O₄ and NiFe₂O₄ on Amberlyst-15 for efficient sorption of Cd²⁺ ions <i>Zubaah Khalid Shahzad Hussain Fozia Bibi Naseem Iqbal Sirajul Haq Khizar Hussain Shah Muhammad Waseem Separation and Purification Technology</i> , Volume 325, Article Number 124666 Impact Factor: 8.6 Quartile: 1 Citations: 10 DOI: https://doi.org/10.1016/j.seppur.2023.124666	2023
Designing of Fe- ZIF67 derived Fe-Co/NC with its reduced graphene oxide-based composites for hydrogen and oxygen evolution reaction <i>Sadia Khan Tayyaba Noor Naseem Iqbal Erum Pervaiz Journal of Electroanalytical Chemistry</i> , Volume 948, Article Number 117811 Impact Factor: 4.5 Quartile: 1 Citations: 8 DOI: https://doi.org/10.1016/j.jelechem.2023.117811	2023
CoSe/NC Composites through the Selenization of ZIF-67 for High-Performance Supercapacitor Electrodes <i>Iqra Shaukat Dr Naseem Iqbal Dr. Tayyaba Noor Maryam Raza Rabia Ahmad Energy Fuels</i> , Volume:37, Issue:20, Page:16150-16159 Impact Factor: 5.3 Quartile: 1 Citations: 15 DOI: 10.1021/acs.energyfuels.3c03169	2023
Experimental study to optimize the thermal performance of Li-ion cell using active and passive cooling techniques <i>Umer Iqbal Majid Ali Hassan Abdullah Khalid Adeel Waqas Mariam Mahmood Naveed Ahmed Nadia Shahzad Naseem Iqbal Khurram Mehboob Journal of Energy Storage</i> , Volume 70, Article Number 108013 Impact Factor: 9.4 Quartile: 1 Citations: 9 DOI: https://doi.org/10.1016/j.est.2023.108013	2023
Chemical activation and magnetization of onion waste derived carbon for arsenic removal	2023

Impact Factor: 6.0 | **Quartile:** 2 | **Citations:** 13
DOI: <https://doi.org/10.1016/j.arabjc.2023.105118>

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](https://doi.org/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>

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>

A facile synthesis of WO₃/g-C₃N₄ composite for chemical sensing of dopamine and hydrazine

2023

Faiza Jilani Muhammad Husnain Faisal Nawaz Muhammad Ali Mohsin Naseem Iqbal Javed Iqbal Ahmed Abd El-Fattah
Materials Letters, Volume 343, Article Number 134391

Impact Factor: 3.0 | **Quartile:** 2 | **Citations:** 4
DOI: <https://doi.org/10.1016/j.matlet.2023.134391>

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>

N to P-type transition with narrowing optical bandgap and increasing carrier concentration of spin coated Cu doped ZnS thin films for optoelectronic applications

2023

Saad Saud Ali Shah Saifullah Awan Sana Zainab Hassan Tariq M. Bilal Riaz Azhar Ul-Haq Nadia Shahzad Naseem Iqbal
Optical Materials, Volume 141, Article Number 113816

Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 11
DOI: <https://doi.org/10.1016/j.optmat.2023.113816>

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](https://doi.org/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>

Thermal management of Li-ion battery by using active and passive cooling method

2023

Muhammad Waqas Nazar Naseem Iqbal Majid Ali Hassan Nazir M. Zain Bin Amjad
Journal of Energy Storage, Volume 61, Article Number 106800

Impact Factor: 8.907 | **Quartile:** 1 | **Citations:** 45
DOI: <https://doi.org/10.1016/j.est.2023.106800>

- Optimization of bandgap reduction in 2-dimensional GO nanosheets and nanocomposites of GO/iron-oxide for electronic device applications** 2023
Sana Zainab Muhammad Azeem Saifullah Awan Syed Rizwan Naseem Iqbal Jamshaid Rashid
Scientific Reports, Volume 13, Issue 1, Article Number 6954
Impact Factor: 4.6 | **Quartile:** 2 | **Citations:** 30
DOI: 10.1038/s41598-023-33200-4
- Effect of Pyrolysis on iron-metal organic frameworks (MOFs) to Fe₃C @ Fe₅C₂ for diesel production in Fischer-Tropsch Synthesis** 2023
Saleem Munir Muhammad Amin Naseem Iqbal Amjad Iqbal Ayman A. Ghfar
Frontiers in Chemistry, Volume 11, Article Number 1150565
Impact Factor: 5.5 | **Quartile:** 2 | **Citations:** 10
DOI: <https://doi.org/10.3389/fchem.2023.1150565>
- LSTN (La_{0.4}Sr_{0.4}Ti_{0.9}Ni_{0.1}O_{3-δ}) 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>
- Highly stable and efficient NH₃(aq)/C₄H₁₀S processed CuSCN bilayers for perovskite solar cells** 2023
Muhammad Ali Tariq Nadia Shahzad Abdul Sattar Tanzeela Yousaf Ahad Hussain Javed Naseem Iqbal Muhammad Imran Shahzad
Journal of Materials Science: Materials in Electronics, Volume 34, Issue 9, Article Number: 783
Impact Factor: 2.779 | **Quartile:** 2 | **Citations:** 3
DOI: 10.1007/s10854-023-10115-4
- 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>
- Fabrication of cellulose paper-based counter electrodes for flexible dye-sensitized solar cells** 2023
Hina Pervaiz Zuhair S. Khan Nadia Shahzad Ghulam Ali Naseem Iqbal Sofia Javed
Physical Chemistry Chemical Physics, Volume 25, Issue 1, Pages 428-438
Impact Factor: 3.945 | **Quartile:** 1 | **Citations:** 10
DOI: <https://doi.org/10.1039/D2CP04358K>
- 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>
- Fe/Co doped ZIF derived nitrogen doped nanoporous carbon as electrode material for supercapacitors** 2022
Ifra Fiaz Gul Hirra Anwar Muhammad Arslan Raza Rabia Ahmad Naeem Iqbal Ghulam Ali
Journal of Industrial and Engineering Chemistry, Volume 116, Pages 595-605
Impact Factor: 6.760 | **Quartile:** 1 | **Citations:** 12
DOI: <https://doi.org/10.1016/j.jiec.2022.09.050>
- 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

<p>The Conversion of Waste Biomass into Carbon-Supported Iron Catalyst for Syngas to Clean Liquid Fuel Production</p> <p><i>Muhammad Amin Saleem Munir Naseem Iqbal Saikh Mohammad Wabaidur Amjad Iqbal</i> <i>Catalysts</i> , Volume 12(10), Article Number 1234</p> <p>Impact Factor: 4.501 Quartile: 2 Citations: 14 DOI: 10.3390/catal12101234</p>	2022
<p>ZIF-67 derived ternary NiMnCo-based nanoporous carbon material for methanol oxidation reaction</p> <p><i>Aqsa Saqib Lodhi Naseem Iqbal Tayyaba Noor Neelam Zaman Junkuo Gao</i> <i>International Journal of Energy Research</i>, Volume 46, Issue 12, Pages 16736-16750</p> <p>Impact Factor: 4.6 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1002/er.8335</p>	2022
<p>Comparative study of Mn-ZIF-67 derived carbon (Mn-Co/C) and its rGO-based composites for the methanol oxidation</p> <p><i>Neelam Zaman Naseem Iqbal Tayyaba Noor</i> <i>Journal of Environmental Chemical Engineering</i>, Volume 10, Issue 5, Article Number 108351</p> <p>Impact Factor: 7.968 Quartile: 1 Citations: 25 DOI: https://doi.org/10.1016/j.jece.2022.108351</p>	2022
<p>Advances and challenges of MOF derived carbon- based electrocatalysts and photocatalyst for water splitting: A review</p> <p><i>Neelam Zaman Naseem Iqbal Tayyaba Noor</i> <i>Arabian Journal of Chemistry</i>, Volume 15, Issue 7, Article Number 103906</p> <p>Impact Factor: 5.165 Quartile: 2 Citations: 65 DOI: https://doi.org/10.1016/j.arabjc.2022.103906</p>	2022
<p>Synthesis of NaNiF₃ and its composite with multi-walled carbon nanotubes as cathode materials for aqueous sodium-ion battery</p> <p><i>M. Zain Bin Amjad Naseem Iqbal Ghulam Ali Tayyaba Noor Ahmed A. Qayyum Usman Ali Khan Junkuo Gao</i> <i>Journal of Materials Science: Materials in Electronics</i>, Volume 33, Issue 21, Pages 16987-17000</p> <p>Impact Factor: 2.8 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1007/s10854-022-08577-z</p>	2022
<p>Nanostructured Mn-doped Zn-N-C @reduced graphene oxide as high performing electrocatalyst for oxygen reduction reaction</p> <p><i>Asad Ali Naseem Iqbal Tayyaba Noor Umair Imtiaz</i> <i>Journal of Electroanalytical Chemistry</i>, Volume 914, Article Number 116324</p> <p>Impact Factor: 4.464 Quartile: 1 Citations: 8 DOI: https://doi.org/10.1016/j.jelechem.2022.116324</p>	2022
<p>Electrocatalytic study of cu/Ni MOF and its g-C₃N₄ composites for methanol oxidation reaction</p> <p><i>Muzzamil Abbasi Tayyaba Noor Naseem Iqbal Neelam Zaman</i> <i>International Journal of Energy Research</i>, Volume 46, Issue 10, Pages 13915-13930</p> <p>Impact Factor: 4.6 Quartile: 1 Citations: 26 DOI: https://doi.org/10.1002/er.8109</p>	2022
<p>Unusual semiconductor-metal-semiconductor transitions in magnetite Fe₃O₄ nanoparticles</p> <p><i>Atta Ur Rehman M. Atif M. Yousnas T. Rafique H Wahab A. Ul Haeed Naseem Iqbal Z. Ali Waqas Khalid Dr. Waqas Khalid M. Nadeem</i> <i>RSC Advances</i> , Volume 12, Issue 20, Pages 12344-12354</p> <p>Impact Factor: 3.9 Quartile: 2 Citations: 16 DOI: 10.1039/d2ra00530a</p>	2022
<p>Conversion of Plastic Waste to Carbon-Based Compounds and Application in Energy Storage Devices</p> <p><i>Lubna Yaqoob Tayyaba Noor Naseem Iqbal</i> <i>ACS Omega</i> , Volume 7(16), Pages 13403-13435</p> <p>Impact Factor: 3.512 Quartile: 2 Citations: 90 DOI: https://doi.org/10.1021/acsomega.1c07291</p>	2022
<p>The Development of Highly Fluorescent Hemicyanine and Dicyanoisophorone Dyes for Applications in Dye-Sensitized Solar Cells</p> <p><i>Ghulam Shabir Sama Arooj Ahad Hussain Javed Aamer Saeed Nadia Shahzad Naseem Iqbal Erum Jabeen</i> <i>Journal of Fluorescence</i> , Volume 32, Pages 799-815</p> <p>Impact Factor: 2.217 Quartile: 3 Citations: 8 DOI: https://doi.org/10.1007/s10895-021-02873-3</p>	2022

CoS₂/MnS₂ co-doped ZIF-derived nitrogen doped high surface area carbon-based electrode for high-performance supercapacitors <i>Muhammad Arslan Raza Abdul Wahab Ali Hussain Umar Bhatti, Awais Ahmad Rabia Ahmad Naseem Iqbal Ghulam Ali</i> <i>Electrochimica Acta</i> , Volume 407, Article Number 139914 Impact Factor: 6.901 Quartile: 2 Citations: 30 DOI: https://doi.org/10.1016/j.electacta.2022.139914	2022
Zeolitic imidazolate frameworks derived Co-Zn-nanoporous carbon-sulfide material for supercapacitors <i>Rabia Ahmad Naseem Iqbal Tayyaba Noor Ghulam Ali Majid Ali Nadia Shehzad Muhammad Arslan Raza</i> <i>Electrochimica Acta</i> , Volume 404, Article Number 139739 Impact Factor: 6.901 Quartile: 2 Citations: 22 DOI: https://doi.org/10.1016/j.electacta.2021.139739	2022
Effect of ZnO nanostructures on the performance of dye sensitized solar cells <i>Ahad Hussain Javed Nadia Shahzad Muhammad Abdullah Khan Muniba Ayub Naseem Iqbal Muhammad Hassan Naveed Hussain Muhammad Imran Rameel Muhammad Imran Shahzad</i> <i>Solar Energy</i> , Volume 230, Pages 492-500 Impact Factor: 7.188 Quartile: 2 Citations: 41 DOI: https://doi.org/10.1016/j.solener.2021.10.045	2021
Enhancement in the magnetoelectric and energy storage properties of core-shell-like multiferroic nanocomposite <i>S. Ahmed M. Atif Atta UrRehman S. Bashir Naseem Iqbal W. Khalid Z. Ali M. Nadeem</i> <i>Journal of Alloys and Compounds</i> , Volume 883, Article Number 160875 Impact Factor: 6.371 Quartile: 1 Citations: 34 DOI: https://doi.org/10.1016/j.jallcom.2021.160875	2021
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A TiO₂ composite with graphitic carbon nitride as a photocatalyst for biodiesel production from waste cooking oil <i>Mahrukh Khan Humera Farah Naseem Iqbal Tayyaba Noor M. Zain Bin Amjad Syeda Sidrah Ejaz Bukhari</i> <i>RSC Advances</i> , Volume 11(59), Pages 37575–37583 Impact Factor: 4.036 Quartile: 2 Citations: 33 DOI: 10.1039/d1ra07796a	2021
Synthesis, electrochemical and optical studies of poly(ethylene oxide) based gel-polymer electrolytes for sodium-ion secondary batteries <i>M.Menisha S.L.N. Senavirathna K.Vignarooban Naseem Iqbal H.M.J.C. Pitawala A. M. Kannan</i> <i>Solid State Ionics</i> , Volume 371, Article Number 115755 Impact Factor: 3.785 Quartile: 2 Citations: 22 DOI: https://doi.org/10.1016/j.ssi.2021.115755	2021
Advanced strategies in Metal-Organic Frameworks for CO₂ Capture and Separation <i>Muhammad Usman Naseem Iqbal Tayyaba Noor Neelam Zaman Aisha Asghar Mahmoud M. Abdelnaby Ahmad Galadima Aasif Helal</i> <i>Chemical Record</i> , Pages 1-29 Impact Factor: 6.771 Quartile: 1 Citations: 72 DOI: 10.1002/tcr.202100230	2021
One-step sonochemical synthesis of NiMn-LDH for supercapacitors and overall water splitting <i>Mutawara Mahmood Baig Iftikhar Hussain Gul Rabia Ahmad, Sherjeel Mahmood Baig, Muhammad Zarrar Khan Naseem Iqbal</i> <i>Journal of Materials Science</i> , Volume 56, Pages18636-18649 Impact Factor: 4.220 Quartile: 2 Citations: 58 DOI: https://doi.org/10.1007/s10853-021-06431-x	2021
ZIF 67 derived Co–Sn composites with N-doped nanoporous carbon as anode material for Li-ion batteries <i>Sheeraz Ashraf Rimsha Mehek Naseem Iqbal Tayyaba Noor Ghulam Ali Abdul Wahab Ahmed Qayyum Awais Ahmed</i> <i>Material Chemistry and Physics</i> , Volume 270, Article Number 124824	2021

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 <i>Rimsha Mehak Naseem Iqbal Tayyaba Noor M. Zain Bin Amjad Ghulam Ali K. Vignarooban M. Abdullah Khan</i> <i>RSC Advances</i> , Volume 11(47), Pages 29247-29266 Impact Factor: 4.036 Quartile: 2 Citations: 84 DOI: DOI: 10.1039/d1ra05073g	2021
Cerium based metal organic framework derived composite with reduced graphene oxide as efficient supercapacitor electrode <i>Usman Ali Khan Naseem Iqbal Tayyaba Noor Rabia Ahmad Awais Ahmad Junkuo Gao Zain Amjad Abdul Wahab</i> <i>Journal of Energy Storage</i> , Volume 41, Article Number 102999 Impact Factor: 8.907 Quartile: 1 Citations: 45 DOI: https://doi.org/10.1016/j.est.2021.102999	2021
Electrocatalytic study of NiO-MOF with activated carbon composites for methanol oxidation reaction <i>Saadia Hanif Dr. Naseem Iqbal Tayyaba Noor Neelam Zaman K. Vignarooban</i> <i>Scientific Reports</i> , Volume 11, Article Number 17192 Impact Factor: 4.997 Quartile: 2 Citations: 30 DOI: https://doi.org/10.1038/s41598-021-96794-7	2021
Electrochemical Reduction of CO₂: A Review of Cobalt Based Catalysts for Carbon Dioxide Conversion to Fuels <i>Muhammad Usman Muhammad Humayun Mustapha D. Garba Latif Ullah Zonish Zeb Aasif Helal Munzir H. Suliman Bandar Y. Alfaifi Naseem Iqbal Maryam Abdinejad Asif Ali Tahir Habib Ullah</i> <i>Nanomaterials</i> , Volume11(8), Article Number 2029 Impact Factor: 5.719 Quartile: 1 Citations: 90 DOI: https://doi.org/10.3390/nano11082029	2021
Evaluating the use of unassimilated bio-anode with different exposed surface areas for bioenergy production using solar-powered microbial electrolysis cell <i>Muhammad Muddasar Rabia Liaquat Ali Abdullah Asif Hussain Nadia Shahzad Naseem iqbal Muhammad Ishtiaq Ali Azhar Uddin Sami Ullah</i> <i>International Journal of Energy Research</i> , Page 1-13 Impact Factor: 4.672 Quartile: 1 Citations: 15 DOI: 10.1002/er.7091	2021
Synthesis, characterization and CO₂ adsorption studies of DABCO based pillared Zn-BDC and Co-BDC metal organic frameworks <i>Ijlal Aamer Naseem Iqbal Tayyaba Noor Aisha Asghar</i> <i>Material Research Express</i> , Volume 8, Number 7, Article Number 075506 Impact Factor: 2.025 Quartile: 4 Citations: 14 DOI: https://doi.org/10.1088/2053-1591/ac14ff	2021
Study of nonlinear optical properties of superhalogen and superalkali doped phosphorene <i>Rida Kiran Rasheed Ahmad Khera Asmat Ullah Khan Ayesha Ayoub Khurshid Ayub Javed Iqbal Naseem Iqbal</i> <i>Journal of Molecular Structures</i> , Volume 1236, Article Number 130348 Impact Factor: 3.841 Quartile: 3 Citations: 25 DOI: https://doi.org/10.1016/j.molstruc.2021.130348	2021
Metal Organic Frameworks Derived Sustainable Polyvinyl Alcohol/Starch Nanocomposite Films as Robust Materials for Packaging Applications <i>Naveed Ahmed Khan Muhammad Bilal Khan Niazi Farooq Sher Zaib Jahan Tayyaba Noor Ofaira Azhar Tazien Rashid Naseem Iqbal Naseem Iqbal</i> <i>Polymers</i> , 13(14), 2307 Impact Factor: 4.329 Quartile: 1 Citations: 71 DOI: https://doi.org/10.3390/polym13142307	2021
Designing and theoretical study of fluorinated small molecule donor materials for organic solar cells <i>Usama Mubashar Afifa Farhat Rasheed Ahmad Khera Naseem Iqbal Rabia Saleem Javed Iqbal</i> <i>Journal of Molecular Modeling</i> , Volume 27, Article Number 216 Impact Factor: 2.172 Quartile: 3 Citations: 41 DOI: https://doi.org/10.1007/s00894-021-04831-z	2021
Electrocatalytic Performance of NiNH₂BDC MOF Based Composites with rGO For Methanol Oxidation Reaction <i>Lubna Yaqoob Tayyaba Noor Naseem Iqbal Habib Nasir Asad Mumtaz</i>	2021

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>

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>

Photo-electrochemical water splitting through graphene-based ZnS composites for H₂ production

2021

Ahmed Hassan Rabia Liaquat Naseem Iqbal Ghulam Ali Xue Fan Zelong Hu Mustafa Anwar Awais Ahmad

Journal of Electroanalytical chemistry, Volume 889, Article Number 115223

Impact Factor: 4.598 | Quartile: 1 | Citations: 31

DOI: <https://doi.org/10.1016/j.jelechem.2021.115223>

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>

Effect of Annealing Temperature on Structural Phase Transformations and Band Gap Reduction for Photocatalytic Activity of Mesopores TiO₂ Nanocatalysts

2021

Sirajul Haq Wajid Rehman Muhammad Waseem Vera Meynen Saifullah Awan Abdul Rehman Khan Shahzad Hussain Zain-ul-Abdin Salah Ud Din

Muhammad Hafeez Naseem Iqbal

Journal of Inorganic and Organometallic Polymers and Materials, Volume 31, Issue 3, Pages 1312-1322

Impact Factor: 3.518 | Quartile: 2 | Citations: 24

DOI: <https://doi.org/10.1007/s10904-020-01810-4>

Efficient palladium (II) electrocatalysts with thiophene anchored pyridinium amidates for CO₂ reduction

2021

Muhammad Zaeem Idrees Ibtasam Ilahi Muhammad Naveed Zafar Naseem Iqbal Muhammad Nawaz Tahir

Journal of CO₂ utilization , Volume 44, Article Number 101384

Impact Factor: 8.321 | Quartile: 1 | Citations: 3

DOI: <https://doi.org/10.1016/j.jcou.2020.101384>

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>

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](https://doi.org/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>

Nitrogen-rich mesoporous carbon for high temperature reversible CO₂ capture 2021

Abdullah Khan Ahad Hussain Javed Memoona Qammar Muhammad Hafeez Muhammad Arshad Mazhar Iqbal Zafar Afrah MAldawsari Afzal Shah Zia Ur Rehman Abdullah Khan Ahad Hussain Javed Memoona Qammar Muhammad Hafeez Muhammad Arshad Mazhar Iqbal Zafar Afrah MAldawsari Afzal Shah Zia Ur Rehman Naseem Iqbal
Journal of CO₂ Utilization , Volume 43, Article Number 101375
Impact Factor: 8.321 | **Quartile:** 1 | **Citations:** 12
DOI: <https://doi.org/10.1016/j.jcou.2020.101375>

Synthesis of zinc oxide and silver nanoparticles using ficus palmata - Forssk leaf extracts and assessment of antibacterial activity 2021

Sabaoon Shamshad Jamshaid Rashid Ihsan-ul-Haq Naseem Iqbal Saif Ullah Awan
Environmental Engineering Research , Volume 26(6), Article Number 200454
Impact Factor: 3.932 | **Quartile:** 2 | **Citations:** 6
DOI: <https://doi.org/10.4491/eer.2020.327>

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
Electrochimica 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](https://doi.org/10.1039/D0RA08560J)

Dinuclear nickel(II) complexes with ONO-pincer and coordinated aquo ligands as a robust homogeneous water oxidation catalyst 2020

Afshan Khurshid M Naveed Zafar K. Javed Naseem Iqbal M. N. Arshad
Russian Chemical Bulletin , Volume 69, No. 11, Pages 2121-2128
Impact Factor: 1.222 | **Quartile:** 4 | **Citations:** 3
DOI: <https://doi.org/10.1007/s11172-020-3009-y>

Investigating the potential of locally sourced wastewater as a feedstock of microbial desalination cell (MDC) for bioenergy production <i>Rabia Liaquat Tariq Mehmood Asif Hussain Khoja Naseem Iqbal Haider ejaz Sadia Mumtaz</i> <i>Bioprocess and Biosystems Engineering</i> , Pages 1-12 Impact Factor: 3.210 Quartile: 2 Citations: 12 DOI: 10.1007/s00449-020-02433-2	2020
Synthesis, characterization and gas adsorption analysis of solvent dependent Zn-BTC metal organic frameworks <i>Naseem Iqbal Tayyaba Noor Leena Aftab Aisha Ashgar</i> <i>Separation Science and Technology</i> , Pages 1-11 Impact Factor: 2.475 Quartile: 3 Citations: 21 DOI: https://doi.org/10.1080/01496395.2020.1813176	2020
Nanocomposites of cobalt benzene Tricarboxylic acid MOF with rGO: An efficient and robust electrocatalyst for oxygen evolution reaction (OER) <i>Tayyaba Noor Naseem Iqbal Lubna Yaqoob Habib Nasir Manzar Sohail Neelam Zaman Muhammad Usman</i> <i>Renewable Energy</i> , Volume 156, Pages 1040-1054 Impact Factor: 8.001 Quartile: 1 Citations: 136 DOI: https://doi.org/10.1016/j.renene.2020.04.131	2020
Thermally reduced mesoporous manganese MOF @reduced graphene oxide nanocomposite as bifunctional electrocatalyst for oxygen reduction and evolution <i>Naseem Iqbal Tayyaba Noor Abdul Wahab Sheeraz Ashraf Muhammad Arslan Raza Awais Ahmad Usman Ali Khan</i> <i>RSC Advances</i> , Volume 10, Pages 27728-27742 Impact Factor: 3.361 Quartile: 2 Citations: 39 DOI: 10.1039/D0RA04193A	2020
MOF-Derived CuPt/NC Electrocatalyst for Oxygen Reduction Reaction <i>Naseem Iqbal Tayyaba Noor Rehan Anwar Saadia Hanif Xuan Shi Neelam Zaman Daarain Haider Syed Aun M. Rizvi A. M. Kannan</i> <i>Catalysts</i> , Volume 10(7), Article Number 799 Impact Factor: 4.146 Quartile: 2 Citations: 33 DOI: https://doi.org/10.3390/catal10070799	2020
NiCo-N-doped carbon nanotubes based cathode catalyst for alkaline membrane fuel cell <i>Dr. Tayyaba Noor Dr. Ghulam Ali Dr. Naseem Iqbal Saadia Hanif Xuan Shi A.M.Kannan</i> <i>Renewable Energy</i> , Volume 154, Pages 508-516 Impact Factor: 8.001 Quartile: 1 Citations: 77 DOI: https://doi.org/10.1016/j.renene.2020.03.060	2020
Development of an Efficient Non-Noble Metal Based Anode Electrocatalyst to Promote Methanol Oxidation Activity in DMFC <i>Naseem Iqbal Tayyaba Noor Lubna Yaqoob Habib Nasir Neelam Zaman Lubna Rasheed Muhammad Yousuf</i> <i>Chemistryselect</i> , Volume 5, Issue 20, Pages 6023–6034 Impact Factor: 2.109 Quartile: 3 Citations: 26 DOI: doi.org/10.1002/slct.202000705	2020
Synthesis and Characterization of Cu-MOF Derived Cu@AC Electrocatalyst for Oxygen Reduction Reaction in PEMFC <i>Tayyaba Noor Naseem Iqbal Syed Aun M. Rizvi Muhammad Daarain Haider Rehan Anwar Saadia Hanif</i> <i>Catalysis Letters</i> , Volume 150, Pages 1397-1407 Impact Factor: 3.186 Quartile: 3 Citations: 44 DOI: https://doi.org/10.1007/s10562-019-03024-x	2020
Synthesis, acetylcholinesterase (AChE) and butyrylcholinesterase (BuChE) activities, and molecular docking studies of a novel compound based on combination of flurbiprofen and isoniazide <i>Naseem Iqbal Tayyaba Noor Amina Asghar Muhammad Yousuf Ghulam Fareed Rabia Nazir Abida Hassan Aneela Maalik Lubna Rasheed</i> <i>RSC Advances</i> , Volume 10, Issue 33, Pages 19346–19352 Impact Factor: 3.361 Quartile: 2 Citations: 36 DOI: DOI: 10.1039/d0ra02339f	2020
Ultrasonication treatment enhances MOF surface area and gas uptake capacity <i>Dr. Tayyaba Noor Dr. Naseem Iqbal Aisha Asghar</i> <i>Polyhedron</i> , Volume 181, Article Number 114463 Impact Factor: 3.052 Quartile: 2 Citations: 30	2020

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 NO_x 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>

Effect of different activation processes on CaO/fly ash mixture for CO₂ Capture

2020

Azra Nawar Adeel Javed Rashid Khan Majid Ali Adeel Waqas Naseem Iqbal
Energy and Fuels, Volume 34, Issue 2, Pages 2035-2044

Impact Factor: 3.605 | **Quartile:** 2 | **Citations:** 30

DOI: <https://doi.org/10.1021/acs.energyfuels.9b03520>

Development of structural thermal energy storage concrete using paraffin intruded lightweight aggregate with nano-refined modified encapsulation paste layer

2019

Naseem Iqbal Sher Afgan Rao Arsalan Khushnood Shazim Ali Memon
Construction and Building Materials, Volume 228, Article Number 116768

Impact Factor: 4.419 | **Quartile:** 1 | **Citations:** 25

DOI: [10.1016/j.conbuildmat.2019.116768](https://doi.org/10.1016/j.conbuildmat.2019.116768)

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](https://doi.org/10.1016/j.apcatb.2019.117947)

Recycling waste-derived marble powder for CO₂ capture

2019

Azra Nawar Ming Zhao Naseem Iqbal Rashid Khan Hosein Ghaedi Majid Ali
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Impact Factor: 4.966 | **Quartile:** 1 | **Citations:** 48

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

2019

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

2019

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Materials, Volume, 12, Issue 18

Impact Factor: 3.057 Quartile: 2 Citations: 28 DOI: 10.3390/ma12182940	
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Editorial Activities

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Materials Chemistry and Physics Reviewed Papers for Journals Impact Factor: 4.6	2024
Materials Today Sustainability Reviewed Papers for Journals Impact Factor: 7.1	2024
Journal of Electroanalytical Chemistry Reviewed Papers for Journals Impact Factor: 4.1	2024
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Reviewed Papers for Journals Impact Factor: 1.99	2021
Reviewed Papers for Journals Impact Factor: 2.65	2021
Reviewed Papers for Journals Impact Factor: 4.939	2021
Reviewed Papers for Journals Impact Factor: 10.65	2021
Reviewed Papers for Journals Impact Factor: 1.811	2021
Reviewed Papers for Journals Impact Factor: 4.077	2020
Reviewed Papers for Journals Impact Factor: 4.007	2020
Reviewed Papers for Journals Impact Factor: 2.394	2020
Reviewed Papers for Journals Impact Factor: 1.941	2020
Reviewed Papers for Journals Impact Factor: 4.27	2020
Reviewed Papers for Journals	2020

Impact Factor: 2.343	
Reviewed Papers for Journals	2020
Impact Factor: 0.69	
Reviewed Papers for Journals	2020
Impact Factor: 4.857	
Reviewed Papers for Journals	2020
Impact Factor: 4.13	
Reviewed Papers for Journals	2020
Impact Factor: 2.584	
Reviewed Papers for Journals	2020
Impact Factor: -	
Reviewed Papers for Journals	2020
Impact Factor: 4.13	

Trainings

2nd workshop on understanding the fabrication and working principle of lithium-ion batteries (17-18 August2022)	2022
Partner: Nil	
Duration: 17-Aug-2022 to 18-Aug-2022	