## **Erum Pervaiz**

## Professor

School of Chemical & Materials Engineering

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Contact: 0518431449

LinkedIn: https://www.linkedin.com/in/dr-erum-pervaiz-63a105264/



## **About**

Dr. Erum Pervaiz is working as Professor in the School of Chemical & Materials Engineering. Dr. Erum Pervaiz has a PhD in Nanotechnology. Dr. Erum Pervaiz has published 100 research articles & conference papers having a citation count of 2659, carried out 6 projects and filed 0 intellectual property.

## **Qualifications**

PhD in Nanotechnology NUST, Islamabad , Pakistan	2009 - 2013
MSc in Process Engineering UET Lahore , Pakistan	2006 - 2008
B.Sc (Hon) in Chemical Engineering UET Lahore , Pakistan	2002 - 2006
F.Sc in science  Board of Intermediate and Secondary Education, Gujranwala , Pakistan	1998 - 2001
Matric (SSC) in science  Board of Intermediate and Secondary Education, Gujranwala , Pakistan	1996 - 1998
Experience	
Professor School of Chemical & Materials Engineering	2024- Present
Professor School of Chemical & Materials Engineering	2024 - 2024
Associate Professor School of Chemical & Materials Engineering	2019 - 2024
Assistant Professor School of Chemical & Materials Engineering	2014 - 2019
Temporary Visiting Faculty SCME NUST, SCME	2010 - 2014
Research assistant National University of Sciences and Technology (NUST) , Sector H-12, Islamabad	2010 - 2013
Lab engineer University of Engineering and Technology Lahore , U.E.T. Lahore, G. T road baghban Pura Lahore	2006 - 2008

## **Awards**

Talented Young Scientist 2016

I have awarded Talented Young Scientist for one year programme by Ministry of Science & Technology China recommended by NUSt and MoST Pakistan.

Overall best performance 2006

Four gold medals for best performance and first position in all four yyears of BE Chemical Engineering in U.E.T. Lahore

## **Research Projects**

National Projects	
Multi-wall CNTs Composites for High Strength composites (Vessels)	2023
Funding Agency: NESCOM	
Amount: PKR 580,000.00	
Status: Approved_inprocess	
Development of bioelectrochemical system platform for rapid metabolic monitoring of bacteria for industrial applications	
Funding Agency: Pakistan Science Foundation	
<b>Amount:</b> PKR 6,950,000.00	
Status: Approved_inprocess	
Development of Testing rig for Hydrogen production by Sorption Enhanced Steam Reforming	2022
Funding Agency: NUST	
Amount: PKR 990,000.00	
Status: Approved_inprocess	
Hydrophobic (Waterproof) Membrane Lining for Shoes	2018
Funding Agency: NUST	
Amount: PKR 300,000.00	
Status: Completed	
Breathable Shoe Soles	2018
Funding Agency: NUST	2010
Amount: PKR 300,000.00	
Status: Approved_inprocess	
Cunthonic and abayostovization of highly atable and afficient non precious metal catalyst for photo	2019
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	
lutamentianal Businets	
International Projects	
Research Articles	
Experimental validation and optimization of bendable linear shaped charges with degressive explosive	2025
thickness for aerospace and defense applications	2023
Muhammad Soulaman Khan Muhammad Ahsan Sarah Farrukh Iftikhar Ahmad Erum Pervaiz Abdul Qadeer Malik	
Journal of Energetic Materials , 1-33	
Impact Factor: 1.700   Quartile: 3	
<b>DOI:</b> https://doi.org/10.1080/07370652.2025.2495558	
Conference in a figure of TiOOOT, MV and for high marfamore and a matter of the de Ou/UI) a contaminant	0005
Surface engineering of Ti3C2Tx MXenes for high-performance adsorption of toxic Cr(VI) contaminant vis-a-vis pristine MXenes	2025
Saleem Shah Igra Mubeen Erum Pervaiz Habib Nasir Shoaib Ahsan Ahmad Saeed Mushtag Ahmad	
MATERIALS CHEMISTRY AND PHYSICS, Volume 334, Article Number 130442	
Impact Factor: 4.300   Quartile: 2   Citations: 1	
<b>DOI:</b> https://doi.org/10.1016/j.matchemphys.2025.130442	
Electrocatalytic activity of tungsten carbide hybrids with two different MOFs for water splitting: a	2024
comparative analysis	
Umair Sohail Erum Pervaiz Rafiq Khosa Maryum Ali	
Nanoscale Advances , Pages 1-14	
Impact Factor: 4.600   Quartile: 2   Citations: 2  DOI: 10.1039/D4NA00289J	
Electrochemical pathway to enhanced water splitting efficiency through cobalt Phosphide-MOFs	2024
hybrid	
Nimra Khalid Ayesha Rehman Erum Pervaiz	
International Journal of Hydrogen Energy, Elsevier	
Impact Factor: 8.100   Quartile: 1   Citations: 12	
<b>DOI:</b> https://doi.org/10.1016/j.ijhydene.2024.05.370	

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	
Comprehensive Investigation of Almond Shells Pyrolysis Using Advance Predictive Models	2024
Arslan Khan Saad Saeed Erum Pervaiz Asif Hussain Khoja Salman Raza Naqvi Sana Saeed Imtiaz Ali	
Renewable Energy, Volume 227, Article Number 120568	
Impact Factor: 8.7   Quartile: 1   Citations: 8  DOI: https://doi.org/10.1016/j.renene.2024.120568	
Fabrication of Fe 3 O 4 based cellulose acetate mixed matrix membranes for As(III) removal from wastewater	2024
Sidra Liaqat Sarag Farrukh Nasir Mahmood Ahmed Syed Shujaat Karim Erum Pervaiz Ayesha Sultan Subhan Ali	
Environmental Science: Water Research & Technology, Vol:10, Issue:07, Pages:1637-1652	
Impact Factor: 3.500   Quartile: 2   Citations: 1  DOI: 10.1039/D4EW00080C	
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	
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	
Free-Flowing Polymer-Bonded Powder Composition of Hexahydro-1,3,5-trinitro-1,3,5-triazine using Solvent-Slurry Coating	2024
Muhammad Soulaman Khan Muhammad Ahsan Sarah Farrukh Erum Pervaiz Abdul Qadeer Malik	
Polymers , Volume 16(6), 841	
Impact Factor: 5.0   Quartile: 1   Citations: 1	
<b>DOI:</b> doi.org/10.3390/polym16060841	
2D bifunctional Tungsten disulfide embedded UiO-66 (WS 2 @UiO- 66) as highly active electrocatalyst for water splitting	2024
Muhabbat Shah Uzair Abdullah Erum Pervaiz Maryum Ali	
Energy Advances, Volume 3, Issue 2, Pages 459-470	
Impact Factor: 3.200   Quartile: 2   Citations: 4  DOI: 10.1039/D3YA00348E	
In Situ Grown Cu-Metal-Organic Frameworks on Graphitic Carbon Nitride (g-C3N4) as an Efficient	2023
Bifunctional Electrocatalyst for Water Splitting	
Abdul Shakoor Sabir Erum Pervaiz Umair Sohail	
Energy Technology, Pages 1-12	
Impact Factor: 3.8   Quartile: 3   Citations: 2  DOI: https://doi.org/10.1002/ente.202300834	
Designing of Fe- ZIF67 derived Fe-Co/NC with its reduced graphene oxide-based composites for	2023
hydrogen and oxygen evolution reaction 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	
<b>DOI:</b> https://doi.org/10.1016/j.jelechem.2023.117811	
Fabrication of MIL-101(Fe) on UiO-66 as an Electrocatalyst for Enhanced Overall Water Splitting	2023
Maryum Ali Erum Pervaiz ChemistrySelect, Volume 8, Issue 37, Article Number e202301980	
Impact Factor: 2.1   Quartile: 3   Citations: 4	
<b>DOI:</b> https://doi.org/10.1002/slct.202301980	

Highly porous interconnected MoP decorated graphene oxide as remarkably efficient electrocatalyst  **Rafiq Khosa Erum Pervaiz Uzair Abdullah Umair Sohail**  Heliyon , Volume 9, Issue 9, Article Number: e19313  Impact Factor: 4.0   Quartile: 2   Citations: 2  DOI: 10.1016/j.heliyon.2023.e19313	2023
Facile and Efficient Synthesis of Carboxylic Terminated Ti3C2Tx Nanosheets Using Citric Acid  Saleem Shah Iqra Mubeen Erum Pervaiz Habib Nasir  FlatChem, Volume 41, Article Number: 100544  Impact Factor: 6.2   Quartile: 2   Citations: 13  DOI: 10.1016/j.flatc.2023.100544	2023
A zeolitic imidazolate framework (ZIF-67) and graphitic carbon nitride (g-C3N4) composite based efficient electrocatalyst for overall water-splitting reaction  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	2023
Enhanced removal of toxic Cr(vi) and Pb(ii) from water using carboxylic terminated Ti3C2Tx nanosheets  Saleem Shah Iqra Mubeen Erum Pervaiz Habib Nasir  RSC Advances, Volume 13, Pages 23320-23333  Impact Factor: 3.9   Quartile: 2   Citations: 8  DOI: https://doi.org/10.1039/D3RA03456A	2023
Catalytic Reduction of Carbon dioxide to Methanol as a Fuel, A Mini Review  Osama Rabi Erum Pervaiz Tasmia Azam  NUST Journal of Engineering Sciences, Volume 16, No. 1, Pages 37-53  Impact Factor: 0  DOI: https://doi.org/10.24949/njes.v16i1.766	2023
Rational Design of the CdS/Fe-MOF Hybrid for Enhanced Hydrogen Evolution Reaction Catalysis  Maryum Ali Erum Pervaiz Umair Sohail  Energy Fuels, Volume 37, Issue 11, Pages 7919-7926  Impact Factor: 5.3   Quartile: 1   Citations: 13  DOI: https://doi.org/10.1021/acs.energyfuels.3c00373	2023
LSTN (La0.4Sr0.4Ti0.9Ni0.1O3-&) perovskite and graphitic carbon nitride (gC3N4) hybrids as a bifunctional electrocatalyst for water-splitting applications  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	2023
WS2 nanosheets rooted in polyethylene terephthalate membrane for gas barrier properties improvement  Muhammad Salman Shah Sarah Farrukh Inamullah Douna Zarrar Salahuddin Arshad Hussain Abubakar Sudais Erum Pervaiz Maxime Pontie Mubasi Ahmed  Journal of Materials Science, Volume 58, Issue 11, Pages 4753-4765  Impact Factor: 4.682   Quartile: 2   Citations: 4  DOI: doi.org/10.1007/s10853-023-08165-4	2023 hir
Blending of ZnO Nanorods in Cellulose Acetate Mixed Matrix Membrane for Enhancement of CO2  Permeability  Inamullah Douna Sarah farrukh Erum Pervaiz Arshad Hussain Xian Feng Fan Zarrar Salahuddin  Journal of Polymers and the Environment, Pages 1-17  Impact Factor: 4.705   Quartile: 1   Citations: 8  DOI: doi.org/10.1007/s10924-022-02594-z	2023
Three-dimensional hierarchical flowers-like cobalt-nickel sulfide constructed on graphitic carbon nitride: Bifunctional non-noble electrocatalyst for overall water splitting  Rubab Zahra Erum Pervaiz Mutawara Mahmood Baig Osama Rabi  Electrochimica Acta, Volume 418, Article Number 140346	2022

Impact Factor: 7.336   Quartile: 1   Citations: 37	
<b>DOI:</b> https://doi.org/10.1016/j.electacta.2022.140346	
Catalytic adsorptive removal of toxic compounds from water using motifs of Ce doped Co3O4/RGO nanohybrids	2022
Erum Pervaiz Sarah Farrukh Minghui Yang	
Cleaner Engineering and Technology, Volume 7, Article Number 100417	
Impact Factor: 0   Citations: 10  DOI: https://doi.org/10.1016/j.clet.2022.100417	
Effect of synthesis route on electrocatalytic water-splitting activity of MoS2/UiO-66 hybrid	2022
Maryum Ali Erum Pervaiz	
Molecular Catalysis , Volume 519, Article Number 112136	
Impact Factor: 5.062   Quartile: 2   Citations: 23	
<b>DOI:</b> https://doi.org/10.1016/j.mcat.2022.112136	
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	
<b>DOI</b> : 10.1007/s11814-021-0900-7	
Enhancing the Overall Electrocatalytic Water-Splitting Efficiency of Mo2C Nanoparticles by Forming Hybrids with UiO-66 MOF	2021
Maryum Ali Erum Pervaiz Osama Rabi	
ACS Omega, Volume 6(50), Pages 34219-34228	
Impact Factor: 3.512   Quartile: 2   Citations: 32	
<b>DOI:</b> https://doi.org/10.1021/acsomega.1c03115	
Synthesis, characterization and application of graphene oxide in self consolidating cementitious systems	2021
Majeed Ullah Shahzada Burhan Ahmad Imtiazi Rao Arsalan Khushnood Erum Pervaiz Wisal Ahmed Asad Ullah Zarar Ali Qureshi	
Construction and Building Materials, Volume 296, Article Number 123623	
Impact Factor: 6.141   Quartile: 1   Citations: 13  DOI: https://doi.org/10.1016/j.conbuildmat.2021.123623	
Dual-phase metal nitrides as highly efficient co-catalysts for photocatalytic hydrogen evolution	2021
Siqi Liu Wandi Kuang Xiangjian Meng Weiliang Qi Samira Adimi Haichuan Guo Xuyun Guo Erum Pervaiz Ye Zhu Dongfeng Xue Minghui Yang	
Chemical Engineering Journal, Volume 416, Article Number 129116	
Impact Factor: 16.744   Quartile: 1   Citations: 35	
<b>DOI:</b> https://doi.org/10.1016/j.cej.2021.129116	
Theoretical study on W-Co3O4 (111) surface: Acetone adsorption and sensing mechanism	2021
Dongliang Liu Erum Pervaiz Samira Adimi Tiju Thomas Fengdong Qu Chaozhu Huang Rui Wang Heng Jiang Minghui Yang	
Applied Surface Science, Volume 566, Article Number 150642	
Impact Factor: 7.392   Quartile: 1   Citations: 20	
<b>DOI:</b> https://doi.org/10.1016/j.apsusc.2021.150642	
Bifunctional Molybdenum Carbide based Hybrids for Electrocatalytic Water splitting	2021
osama Rabi Erum Pervaiz Maryum Ali Rubab Zahra	
Ceramics International, Volume 47, Issue 17, Pages 24949-24958	
Impact Factor: 5.532   Quartile: 1   Citations: 12  DOI: https://doi.org/10.1016/j.ceramint.2021.05.222	
An Inclusive Review on Recent Advancements of Cadmium Sulfide Nanostructures and its Hybrids for	2021
Photocatalytic and Electrocatalytic Applications	
Uzair Abdullah Maryum Ali Erum Pervaiz	
Molecular Catalysis , Volume 508, Article Number 111575	
Impact Factor: 5.089   Quartile: 2   Citations: 62	
<b>DOI:</b> https://doi.org/10.1016/j.mcat.2021.111575	
NiFe2O4/SiO2 nanostructures as a potential electrode material for high rated supercapacitors	2021
Mutawara Mahmood Baig Erum Pervaiz Misbah azad Zaib Jahan Muhammad Bilal Khan Niazi Sherjeel Mahmood Baig	
Ceramics International - Please attach published paper, Volume 47, Issue 9, Pages 12557-12566	

Impact Factor: 5.532   Quartile: 1   Citations: 59  DOI: https://doi.org/10.1016/j.ceramint.2021.01.113	
Investigation of cellulose acetate/gamma-cyclodextrin MOF based mixed matrix membranes for CO2/CH4 gas separation	2021
Ovaid Mehmood Sarah Farrukh Arshad Hussain Mohammad Younas Zarrar Salahuddin Erum Pervaiz Muhammad Ayoub	
Green House Gases - Science and Technology, Volume 11, Issue 2, Pages 313-330	
Impact Factor: 2.518   Quartile: 3   Citations: 28  DOI: 10.1002/ghg.2050	
MOF Embedded and Cu Doped CeO2 Nanostructures as Efficient Catalyst for Adipic Acid Production:	2021
Green Catalysis	
Shabahat Bibi Erum Pervaiz Minghui Yang Osama Rabi Catalysts , Volume 11(3), Article Number 304	
Impact Factor: 4.501   Quartile: 3   Citations: 33	
DOI: https://doi.org/10.3390/catal11030304	
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	
<b>DOI:</b> https://doi.org/10.1088/2053-1591/abd822	
Facile in situ nitrogen-doped carbon coated iron sulfide as green and efficient adsorbent for stable lithium-sulfur batteries	2021
Rongrong Li Hangjia Shen Erum Pervaiz Minghui yang	
Chemical Engineering Journal, Volume 404, Article Number 126462	
Impact Factor: 16.744   Quartile: 1   Citations: 50	
<b>DOI:</b> https://doi.org/10.1016/j.cej.2020.126462	
Tuning the hydrophobicity of MOF sponge for efficient oil/water separation	2020
Tasmia Azam Erum Pervaiz sofia Javed Sundus Jabeen Amina Muhammad Shoaib Khalid	
Chemical Physics Impact, Volume 1, Article Number 100001	
Impact Factor: 0   Citations: 23  DOI: https://doi.org/10.1016/j.chphi.2020.100001	
High-Performance Supercapacitor Electrode Obtained by Directly Bonding 2D Materials: Hierarchal MoS2on Reduced Graphene Oxide	2020
Mutawara Mahmood Baig Erum Pervaiz Minghui Yang Iftikhar Hussain Gul	
Frontiers in Materials, Volume 7, Article Number 580424	
Impact Factor: 3.515   Quartile: 2   Citations: 49  DOI: 10.3389/fmats.2020.580424	
Biogas upgrading with novel cellulose nano-crystals and polyvinyl amine nanocomposite membranes	2020
Zaib Jahan Muhammad Bilal Khan Niazi Uzair Saeed Erum Pervaiz Faroog Sher	2020
Polymer Testing, Volume 91, Article Number 106867	
Impact Factor: 4.282   Quartile: 1   Citations: 47	
<b>DOI:</b> https://doi.org/10.1016/j.polymertesting.2020.106867	
A novel leaves and needles like TiO2 (LNT) electron transfer layer (ETL) as an alternative to mesoporous TiO2 electron transfer layer (ETL) in perovskite solar cell	2020
Hamid Latif Zuha Azher Syeda Ammara Shabbir Saba Rasheed Erum Pervaiz Abdul Sattar Ayesha Imtiaz	
Optical Materilas , Volume 109, Article Number 110281	
Impact Factor: 3.080   Quartile: 2   Citations: 3	
<b>DOI:</b> https://doi.org/10.1016/j.optmat.2020.110281	
Optimization analysis of polyurethane based mixed matrix gas separation membranes by incorporation	2020
of gamma-cyclodextrin metal organic frame work	
Erum Pervaiz Sarah Farrukh Ovaid Mehmood Arshad Hussain Ayesha Rehman Yangxian Liu Sajid Butt	
Chemical Papers, Volume 74, Pages 3527–3543	
Impact Factor: 2.097   Quartile: 3   Citations: 23	
<b>DOI:</b> https://doi.org/10.1007/s11696-020-01179-1	

Mutawara Mehmood Baig Erum Pervaiz Muhammad Junaid Afzal

Journal of the Chemical Society of Pakistan, Volume 42, No. 04, Pages 531-541

Impact Factor: 0.536 | Quartile: 4 DOI: https://www.jcsp.org.pk

#### Nickel-Iron Nitride -Nickel Sulfide Composites for Oxygen Evolution Electrocatalysis

2020

Shuqin Liang Meizan Jing Erum Pervaiz Haichuan Guo Tiju Thomas Weiyu Song Jian Xu Ali Saad Jiacheng Wang Hangjia Shen Jian Liu Minghui Yang

ACS Applied Materials and Interfaces, Pages 1-7 Impact Factor: 9.229 | Quartile: 1 | Citations: 55

DOI: DOI: 10.1021/acsami.0c11324

## Nanocomposites of NiO/CuO Based MOF with rGO: An Efficient and Robust Electrocatalyst for

2020

#### **Methanol Oxidation Reaction in DMFC**

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

## Catalytic Activity and Kinetic Studies of Core@Shell Nanostructure Nife2o4@Tio2 for Photocatalytic

2020

#### **Degradation of Methyl Orange Dye**

Mutawara Mahmood Baig Erum Pervaiz Muhammad Junaid Afzal

Journal of the Chemical Society of Pakistan, Volume: 42, No:06, Pages:531-541

Impact Factor: 0.536 | Quartile: 4 DOI: 10.52568/000669/JCSP/42.04.2020

# In-Vitro and In-Vivo Study of Superabsorbent PVA/Starch/g-C3N4/Ag@TiO2 NPs Hydrogel Membranes

2020

### for Wound Dressing

Erum Pervaiz Arooj Ahmed Muhammad Bilal Khan Niazi Zaib Jahan Tahir Ahmad Arshad Hussain Hussnain Ahmed Janjua Zakir Hussain

European Polymer Journal, Volume 130, Article Number 109650

Impact Factor: 4.598 | Quartile: 1 | Citations: 101 DOI: DOI: 10.1016/j.eurpolymj.2020.109650

## Synthesis and Catalytic Activity of IM-5 Zeolite as Naphtha Cracking Catalyst for Light Olefins: A

2020

Review

Rabeeha Taj Erum Pervaiz Arshad Hussain

Journal of Chemical Society of Pakistan, Vol. 42, No. 02, Pages 305-316

Impact Factor: 0.536 | Quartile: 4 DOI: https://www.jcsp.org.pk

## Enhancing the Thermal, Mechanical and Swelling Properties of PVA/Starch Nanocomposite Membranes Incorporating g-C3N4

2020

Erum Pervaiz Arooj Ahmed Muhammad Bilal Khan Niazi Zaib Jahan Ghufrana Samin Taqi Mehran Arshad Hussain

Journal of Polymers and the Environment, Volume 28, Pages 100-115

Impact Factor: 3.667 | Quartile: 2 | Citations: 62 DOI: https://doi.org/10.1007/s10924-019-01592-y

## Molten Salts-Assisted Fabrication of Fe, S, and N Co-Doped Carbon as Efficient Oxygen Reduction

2020

Erum Pervaiz Mengyao Lv Fenghui Fan Longhai Pan Hangjia Shen Jiacheng Wang Minghui Yang Jun Wang

Energy Technology, Volume 8, Issue 1, Article Number 1900896

Impact Factor: 3.631 | Quartile: 3 | Citations: 6

DOI: DOI: 10.1002/ente.201900896

## Adsorption of CO2 on amine-functionalized green metal-organic framework: an interaction between amine and CO2 molecules

2019

Erum Pervaiz Sarah Farrukh Ayesha Rehman Arshad Hussain Xianfeng Fan Environmental Science and Pollution Research, Volume 26, Pages 36214-36225

Impact Factor: 3.056 | Quartile: 2 | Citations: 26 DOI: https://doi.org/10.1007/s11356-019-06717-3

## Tin oxide quantum dots decorated graphitic carbon nitride for enhanced removal of organic components from water: Green process

2019

Erum Pervaiz M. Usman Yousaf Sammar Minallah M. Junaid Afzal Liu Honghong Minghui Yang

Impact Factor: 4.019   Quartile: 1   Citations: 47  DOI: 10.1016/j.rinp.2019.102455	
Ternary adsorbent photocatalyst hybrid (APH) nanomaterials for improved abstraction of tetracycline from water	2019
Erum Pervaiz Sammar Minallah M. Usman Yousaf Muhammad Bilal Khan Niazi Liu Honghong Minghui Yang	
Separation Science & Technology, - Impact Factor: 1.718   Quartile: 3   Citations: 11	
DOI: 10.1080/01496395.2019.1640742	
Template synthesis of CoFe2O4 extended surface microspheres for efficient water decontamination	2019
and absorption of electromagnetic waves: Twin behavior	
Tiju Thomas M Junaid Afzal Minghui Yang Erum Pervaiz  Materials Research Express, Volume 6, Issue 7, Article Number 075506	
Impact Factor: 1.929   Quartile: 3   Citations: 12	
DOI: 10.1088/2053-1591/ab1289	
Hierarchical Ni3ZnN Hollow Microspheres as Stable Non-Noble Metal Electrocatalysts for Oxygen Reduction Reactions	2018
Erum pervaiz Bo He Jiacheng Wang Xiangting Dong Zhigang Shao Minghui Yang Yao Yuan	
Electrocatalysis, NULL	
Impact Factor: 2.311   Quartile: 3   Citations: 13  DOI: https://doi.org/10.1007/s12678-018-0461-7	
Magnetic Micro scavengers: Highly porous Ni1-xCoxFe2O4 microcubes for efficient disintegration of nitrophenol	2018
Erum Pervaiz Muhammad Syam Azhar Virk Ayesha Khan Tareen Bingxue Zhang Qiuyan Zhao Zhenzhen Wang Minghui Yang	
Nanotechnology , Volume 29(21), Article Number 215710	
Impact Factor: 3.399   Quartile: 1   Citations: 11	
<b>DOI:</b> https://doi.org/10.1088/1361-6528/aab4c8	
Computational Fluid Dynamics (CFD) Analysis of Phthalic Anhydride's Yield Using Lab Synthesized	2018
and Commercially Available (V2O5/TiO2) Catalyst	
Ali Sarosh Arshad Hussain Erum Pervaiz Muhammad Ahsan Engineering Technology & Applied Science Research, Volume 8, No. 2, Pages 2821-2826	
Impact Factor: -	
DOI: https://etasr.com/index.php/ETASR/article/view/1954	
Highly integrated nanocomposites of RGO/TiO2 nanotubes for enhanced removal of microbes from water	2018
Muhammad Junaid Afzal Erum pervaiz Sarah Farrukh Tahir Ahmed Zhang Bingxue Minghui Yang	
Environmental Technology, Volume 40, No. 19, Pages 2567–2576	
Impact Factor: 1.918   Quartile: 3   Citations: 21	
<b>DOI:</b> 10.1080/09593330.2018.1447021	
Nitrogen doped RGO?Co3O4nanograin cookies: highly porous and robust catalyst for removing	2017
nitrophenol from waste water  Zhang Bingxue Conglin Yin Minghui Yang Muhammad Syam Azhar Virk Erum Pervaiz	
Nanotechnology , NULL	
Impact Factor: 3.404   Quartile: 1   Citations: 9	
<b>DOI:</b> https://doi.org/10.1088/1361-6528/aa8297	
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2018

Edited Journal Issue / Proceeding / Book

Edited Journal Issue / Proceeding / Book

## **Trainings**

 ${\bf 3}\ {\bf Weeks}\ {\bf workshop}\ {\bf on}\ {\bf Energetic}\ {\bf Materials}\ {\bf vis-a-vis}\ {\bf their}\ {\bf Chemistry}, \\ {\bf Formulation}\ {\bf \&}\ {\bf Safety}\ {\bf Aspects}$ 

**Partner:** Defense/Strategic Organization **Duration:** 22-May-2023 to 09-Jun-2023

2023

2019