

Sarah Farrukh

Associate Professor

School of Chemical & Materials Engineering

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About

Dr. Sarah Farrukh is working as Associate Professor in the School of Chemical & Materials Engineering. Dr. Sarah Farrukh has a PhD in Membrane Sciences, Separations. Dr. Sarah Farrukh has published 108 research articles & conference papers having a citation count of 1393, carried out 5 projects and filed 1 intellectual property.

Qualifications

PhD in Membrane Sciences, Separations NUST, Islamabad , Pakistan	2011 - 2015
MS in Energetic Materials Engineering NUST, Islamabad , Pakistan	2008 - 2010
MSc in Physics (Solid State Physics) Quaid-i-Azam University , Pakistan	2004 - 2006
B.Sc (Hon) in computers and physics Hamdard University , Pakistan	2000 - 2004

Experience

Associate Professor School of Chemical & Materials Engineering	2023- Present
Associate Professor School of Chemical & Materials Engineering	2022 - 2023
Associate Professor School of Chemical & Materials Engineering	2021 - 2022
Assistant Professor School of Chemical & Materials Engineering	2021 - 2021
Assistant Professor School of Chemical & Materials Engineering	2016 - 2021

Awards

- Scholarship at Hamdard Un**
Scholarship given by hamdard university after achieving position in final degree
- Scholarship**
Quaid-i-Azam University awarded scholarship for MSc Physics
- Gold Medal**
President Gold Medal for MS Energetic Materials Engineering

Research Projects

National Projects

Exploration of experimental and computational synergetic analysis of 2D nanomaterials based mixed matrix membranes for carbon capture	2023
Funding Agency: National University of Sciences and Technology Islamabad Pakistan	
Amount: PKR 1,000,000.00	
Status: Completed	
Study and Development of Thin Film Detonator to sustain high Gas	2019
Funding Agency: NESCOM	
Amount: PKR 200,000.00	
Status: Completed	
Exploration of 2-D Nano Sheets Based Composites for Gas Barrier Applications	2019
Funding Agency: HEC	
Amount: PKR 7,051,133.00	
Status: Completed	
Mechanical Characterization of Carbon Glass Fiber / Nanoparticle- Epoxy Hybrid Polymeric Composites	2017
Funding Agency: NESCOM	
Amount: PKR 500,000.00	
Status: Completed	
CO2 Capture analysis of composite membrane to reduce Hazardous Effects of CO2 on Environment	2016
Funding Agency: HEC	
Amount: PKR 449,000.00	
Status: Completed	

International Projects

Research Articles

Harnessing synergistic two-step adsorption of silica/calcium chloride (CaCl2) hybrid composites for ammonium removal from aquarium wate	2025
Sarah Farrukh Prof xianfeng Fan Syed shujaat Karim Prof. Zhibin Yu Humais Roafi	
Water Environment Research , Volume:97, Issue:06, Article Number: e70080	
Impact Factor: 1.9 Quartile: 2	
DOI: doi.org/10.1002/wer.70080	
Experimental validation and optimization of bendable linear shaped charges with degressive explosive thickness for aerospace and defense applications	2025
Muhammad Soulam Khan Muhammad Ahsan Sarah Farrukh Iftikhar Ahmad Erum Pervaiz Abdul Qadeer Malik	
Journal of Energetic Materials , 1-33	
Impact Factor: 1.700 Quartile: 3	
DOI: https://doi.org/10.1080/07370652.2025.2495558	
Synergistic effects of structured and powdered Calcium Chloride-Activated Carbon composites on Ammonia adsorption: the role of salt distribution and pH-controlled crosslinking	2025
Sarah Farrukh Xianfeng Fan Syed shujaat Karim Zhibin Yu Guanchu Lu	
Emergent Materials , Pages 1-24	
Impact Factor: 4.800 Quartile: 2	
DOI: https://doi.org/10.1007/s42247-025-01106-8	
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	
Free-Flowing Polymer-Bonded Powder Composition of Hexahydro-1,3,5-trinitro-1,3,5-triazine using Solvent-Slurry Coating	2024
Muhammad Soulam Khan Muhammad Ahsan Sarah Farrukh Erum Pervaiz Abdul Qadeer Malik	
Polymers , Volume 16(6), 841	
Impact Factor: 5.0 Quartile: 1 Citations: 1	

DOI: doi.org/10.3390/polym16060841	
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</i> <i>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
Fabrication and Permeation Analysis of Polysulfone (PSf) Modified Cellulose Triacetate (CTA) Blend Membranes for CO2 Separation from Methane (CH4) <i>Humais Roafi Sarah Farrukh Zarrar Salahuddin Ayesha Raza Syed Shujaat Karim Dr. Hizba Waheed</i> <i>Journal of Polymers and the Environment</i> , Pages: 17 Impact Factor: 5.3 Quartile: 1 Citations: 4 DOI: 10.1007/s10924-023-03125-0	2023
A contemplating review on different synthesis methods of 2D-Molybdenum disulfide (MoS2) nanosheets <i>Syed Shujaat Karim Abubakar Sudais Muhammad Salman Shah Sarah Farrukh Subhan Ali Mubashir Ahmed Zarrar Salahuddin Xianfeng Fan</i> <i>Fuel</i> , Volume 351, Article Number 128923 Impact Factor: 7.4 Quartile: 1 Citations: 24 DOI: https://doi.org/10.1016/j.fuel.2023.128923	2023
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 <i>Subhan Ali Sarah Farrukh Syed Shujaat Karim Tayyaba Noor Sidra Liaquat Ayesha Sultan</i> <i>Environmental Science and Pollution Research</i> , Volume:30, Issue:50, Page:109453-109468 Impact Factor: 5.8 Quartile: 1 Citations: 3 DOI: 10.1007/s11356-023-30029-2	2023
WS2 nanosheets rooted in polyethylene terephthalate membrane for gas barrier properties improvement <i>Muhammad Salman Shah Sarah Farrukh Inamullah Douna Zarrar Salahuddin Arshad Hussain Abubakar Sudais Erum Pervaiz Maxime Pontie Mubashir Ahmed</i> <i>Journal of Materials Science</i> , 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
Blending of ZnO Nanorods in Cellulose Acetate Mixed Matrix Membrane for Enhancement of CO2 Permeability <i>Inamullah Douna Sarah Farrukh Erum Pervaiz Arshad Hussain Xian Feng Fan Zarrar Salahuddin</i> <i>Journal of Polymers and the Environment</i> , Pages 1-17 Impact Factor: 4.705 Quartile: 1 Citations: 8 DOI: doi.org/10.1007/s10924-022-02594-z	2023
Challenges and issues with the performance of boron nitride rooted membrane for gas separation <i>Zarrar Salauddin Marghoob Ahmed Sarah Farrukh Sher Ahmad Abulhassan Ali Sofia Javed Arshad Hussain Mohammad Younas Sehar Shakir Awais Bokhari Abdulkader S. Hanbazazah</i> <i>Chemosphere</i> , Volume 308, Part 1, Article Number 136002 Impact Factor: 8.8 Quartile: 1 Citations: 11 DOI: https://doi.org/10.1016/j.chemosphere.2022.136002	2022
Investigation on the Redox Properties of a Novel Cu-Based Pr-Modified Oxygen Carrier for Chemical Looping Combustion <i>Muhammad Qasim Muhammad Ayoub Aqsha Aqsha Nur Adibah Ghazali Sami Ullah Yoshito Ando Yoshito Ando Sarah Farrukh</i> <i>ACS Omega</i> , Volume 7, Issue 45, Pages 40789-40798 Impact Factor: 4.132 Quartile: 2 Citations: 7 DOI: doi.org/10.1021/acsomega.2c02993	2022
Model analysis on effect of temperature on the solubility of recycling of Polyethylene Terephthalate (PET) plastic <i>Syed Shujaat Karim Sarah Farrukh Takeshi Matsuura Muhammad Ahsan Arshad Hussain Sehar Shakir Lai Fatt Chuah Mudassir Hasan Awais Bokhari</i> <i>Chemosphere</i> , Volume 307, Part 3, Article Number 136050 Impact Factor: 8.943 Quartile: 1 Citations: 31 DOI: https://doi.org/10.1016/j.chemosphere.2022.136050	2022
Environmental treatment and remediation using h-BN based smart and hybrid membrane	2022

Zarrar Salahuddin Sarah Farrukh Rahim Jan Aatif Ayoub Arshad Hussain Maxime Pontié Anas Ahmad Muhammad Mubashir
Chemosphere , Volume 305, Article Number 135466

Impact Factor: 8.8 | **Quartile:** 1 | **Citations:** 5

DOI: 10.1016/j.chemosphere.2022.135466

Parametric study for N2O conversion and reduction using cobalt-oxide-based catalysts

2022

Lisandra Rocha-Meneses Abrar Inayat Muhammad Ayoub Sami Ullah Salman Raza Naqvi Sarah Farrukh Ahmad Mustafa Ahmad Z. Abdullah Aamir H. Bhat
Environmental Progress and Sustainable Energy , Pages 1- 21, Article Number e13982

Impact Factor: 2.824 | **Quartile:** 3 | **Citations:** 1

DOI: <https://doi.org/10.1002/ep.13982>

Utilization of Dairy Scum Waste as a Feedstock for Biodiesel Production via Different Heating Sources for Catalytic Transesterification

2022

Siti Aminah Mohd Johari Muhammad Ayoub Abrar Inayat Sami Ullah Maliha Uroos Salman Raza Naqvi Sarah Farrukh
ChemBioEng Reviews , Volume 9, No. 6, Pages 1-28

Impact Factor: 6.207 | **Quartile:** 1 | **Citations:** 9

DOI: <https://doi.org/10.1002/cben.202200003>

The influence of polymer concentration on the morphology and mechanical properties of asymmetric polyvinyl alcohol (PVA) membrane for O2/N2 separation

2022

Syed Shujaat Karim Sarah Farrukh Arshad Hussain Mohammad Younas Tayyaba Noor
Polymers and Polymer Composites , Volume 30, Pages 1-12

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

DOI: 10.1177/09673911221090053

Future advances and challenges of nanomaterial-based technologies for electromagnetic interference-based technologies: A review

2022

Syed Shujaat Karim Zahid Murtaza Sarah Farrukh Malik Adeel Umer Syed Sarim Ali Mohammad Younas Muhammad Mubashir Sidra Saqib Muhammad Ayoub Awais Bokhari Angela Paul Peter Kuan Shiong Khoo Sami Ullah Pau Loke Show
Environmental Research , Volume 205, Article Number 112402

Impact Factor: 6.498 | **Quartile:** 1 | **Citations:** 23

DOI: <https://doi.org/10.1016/j.envres.2021.112402>

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>

Performance Analysis of Calcium-Doped Titania (TiO2) as an Effective Electron Transport Layer (ETL) for Perovskite Solar Cells

2022

Zafar Arshad Sehar Shakir Asif Hussain Khoja Ahad Hussain Javed Mustafa Anwar Abdur Rehman Rahat Javaid Umair Yaqoob Qazi Sarah Farrukh
Energies , Volume 15(4), Article Number 1408

Impact Factor: 3.004 | **Quartile:** 3 | **Citations:** 20

DOI: <https://doi.org/10.3390/en15041408>

Green synthesized nano-cellulose polyethylene imine-based biological membrane

2022

Hizba Waheed Sarah farrukh Arshad Hussain Amir Mukhtar Muhammad Mubashir Sidra Saqib Sami Ullah Angela Paul Peter Kuan Shiong Khoo Pau Loke Show
Food and Chemical Toxicology , Volume 160, February 2022, 112773

Impact Factor: 6.025 | **Quartile:** 1 | **Citations:** 7

DOI: 10.1016/j.fct.2021.112773

Experimental investigation of polysulfone modified cellulose acetate membrane for CO2/H2 gas separation

2022

Inamullah Douna Sarah Farrukh Arshad Hussain Zarrar Salahuddin Tayyaba Noor Erum Pervaiz Mohammad Younas Xian Feng Fan
Korean Journal of Chemical Engineering , Volume 39, Pages189-197

Impact Factor: 3.309 | **Quartile:** 2 | **Citations:** 19

DOI: 10.1007/s11814-021-0900-7

Valorization of Solketal Synthesis from Sustainable Biodiesel Derived Glycerol Using Response Surface Methodology

2021

Gayathri Arun Muhammad Ayoub Zulqarnain Umesh Deshannavar Mohd Hizami Mohd Yusoff Sarah Farrukh Farooq Sher
Catalysts , Volume 11(12), Article Number 1537

Impact Factor: 4.146 Quartile: 2 Citations: 19 DOI: https://doi.org/10.3390/catal11121537	
3-(Aminopropyl)triethoxysilane modified CuO nanoparticles-mediated adsorbent for removal of methylene blue through polymer inclusion membranes transport: optimization of operational variables <i>Kiran Mustafa Sara Musaddiq Sarah Farrukh Sajjad Ahmad Hifsa Rasheed Imama Fayyaz</i> <i>Desalination and Water Treatment</i> , Volume 242, Pages 274-282 Impact Factor: 1.273 Quartile: 4 Citations: 6 DOI: 10.5004/dwt.2021.27838	2021
Design and Development of a Computational Tool for a Dialyzer by Using Computational Fluid Dynamic (CFD) Model <i>Tuba Yaqoob Muhammad Ahsan Sarah Farrukh Iftikhar Ahmad</i> <i>Membranes</i> , Volume 11, Issues 12, Article Number 916 Impact Factor: 4.106 Quartile: 2 Citations: 3 DOI: https://doi.org/10.3390/membranes11120916	2021
A comprehensive overview of dual-layer composite membrane for air (O₂/N₂) separation <i>Syed Shujaat Karim Sarah Farrukh Arshad Hussain Tayyaba Noor Mohammad Younas</i> <i>Polymers and Polymer Composites</i> , Volume 29, Issue 9, Pages S1630-S1640 Impact Factor: 3.171 Quartile: 2 Citations: 14 DOI: doi.org/10.1177/09673911211045852	2021
Novel Cellulose Triacetate (CTA)/Cellulose Diacetate (CDA) Blend Membranes Enhanced by Amine Functionalized ZIF-8 for CO₂ Separation <i>Ayesha Raza Susilo Japip Can Zeng Liang Sarah Farrukh Arshad Hussain Tai-Shung Chung</i> <i>Polymers</i> , Volume 13(17), Article Number 2946 Impact Factor: 4.967 Quartile: 1 Citations: 20 DOI: 10.3390/polym13172946	2021
Magnesium doped TiO₂ as efficient electron transport layer in perovskite solar cells <i>Zafar Arshad Asif Hussain Khoja Sehar Shakir Asif Afzal M A Mujtaba Manzoor Elahi M Soudagar H Fayyaz Ahamed Saleel Sara Farukh Mudassar Saeed</i> <i>Case Studies in Thermal Engineering</i> , Volume 26, Article Number 101101 Impact Factor: 6.268 Quartile: 1 Citations: 49 DOI: https://doi.org/10.1016/j.csite.2021.101101	2021
Development of mass and heat transfer coupled model of hollow fiber membrane for salt recovery from brine via osmotic membrane distillation <i>Sher Ahmad Gabriela Vollet Marson Waheed Ur Rehman Mohammad Younas Sarah Farrukh Mashallah Rezakazemi</i> <i>Environmental Sciences Europe</i> , Volume 33, Article Number 81 Impact Factor: 5.481 Quartile: 2 Citations: 9 DOI: https://doi.org/10.1186/s12302-021-00520-z	2021
Mixed and single gas permeation performance analysis of amino-modified ZIF based mixed matrix membrane <i>Zarrar Salahuddin Sarah Farrukh Arshad Hussain Tayyaba Noor Witold Kwapinski</i> <i>Polymer and Polymer Composite</i> , Pages 1-12 Impact Factor: 1.841 Quartile: 3 Citations: 4 DOI: https://doi.org/10.1177/09673911211023303	2021
Thickness Effect on Permeance of CO₂/CH₄ Gases in CA Coated PVDF Composite Membranes <i>Ayesha Raza Muhammad Fahad Yousaf Sarah Farrukh Arshad Hussain</i> <i>Transactions of the Indian Ceramic Society</i> , Volume 80, Issue 2, Pages 89-95 Impact Factor: 2.355 Quartile: 2 Citations: 4 DOI: https://doi.org/10.1080/0371750X.2021.1880969	2021
Sonochemical synthesis of Co₃O₄ nanoparticles deposited on GO sheets and their potential application as a nanofiller in MMMs for O₂/N₂ separation <i>Shahnila Shah Huma Shaikh Sarah Farrukh Muhammad Imran Malik Zaib un Nisa Mughal Shabana Bhagat</i> <i>RSC Advances</i> , Volume 11(32), Pages 19647-19655 Impact Factor: 4.036 Quartile: 2 Citations: 6 DOI: 10.1039/D1RA02264D	2021
Glycerol Conversion to Solketal: Catalyst and Reactor Design, and Factors Affecting the Yield <i>Imtisal Zahid Muhammad Ayoub Bawadi Abdullah Ahmad Mukhtar Sidra Saqib p Sikander Rafiq Sami Ullah Sarah Farrukh Mohammed Danish</i> <i>ChemBioChem Reviews</i> , Volume 8, Issue 3, Pages 227-238	2021

Impact Factor: 2.927 Quartile: 2 Citations: 14 DOI: doi.org/10.1002/cben.202000015	
Advanced multiple-layer composite CTA/CDA hollow fiber membranes for CO₂ separations <i>Ayesha Raza Muhammad Askari Can zeng liang Napeng Sarah Farrukh Arshad Hussain Pai-shung chung</i> <i>Journal of Membrane Science</i> , Volume 625, Article Number 119124 Impact Factor: 10.530 Quartile: 1 Citations: 17 DOI: 10.1016/j.memsci.2021.119124	2021
Investigation of cellulose acetate/gamma-cyclodextrin MOF based mixed matrix membranes for CO₂/CH₄ gas separation <i>Ovaïd Mehmood Sarah Farrukh Arshad Hussain Mohammad Younas Zarrar Salahuddin Erum Pervaiz Muhammad Ayoub</i> <i>Green House Gases - Science and Technology</i> , Volume 11, Issue 2, Pages 313-330 Impact Factor: 2.518 Quartile: 3 Citations: 28 DOI: 10.1002/ghg.2050	2021
Performance Analysis of Blended Membranes of Cellulose Acetate with Variable Degree of Acetylation for CO₂/CH₄ Separation <i>Sarrah Farrukh Mohd Hafiz Dzarfan Othman Arshad Hussain Imran Ullah Khan Mohd Hafiz Dzarfan Othman Ayesha Raza Mohd Hafiz Dzarfan Othman Muhammad Ahsan</i> <i>Membranes</i> , Volume 11, Issue 4, Article Number 245 Impact Factor: 4.562 Quartile: 1 Citations: 19 DOI: https://doi.org/10.3390/membranes11040245	2021
Biomimetic highly hydrophobic stearic acid functionalized MOF sponge for efficient oil/water separation <i>Tasmia Azam Erum Pervaiz Sarah Farrukh Tayyaba Noor</i> <i>Materials Research Express</i> , Volume 8, Article Number 015019 Impact Factor: 2.025 Quartile: 4 Citations: 12 DOI: https://doi.org/10.1088/2053-1591/abd822	2021
Gas barrier properties evaluation for boron nitride nanosheets-polymer (polyethylene-terephthalate) composites <i>Atif Ayub Sarah Farrukh Rahim Jan Muhammad Azeem Zarrar Salahuddin Arshad Hussain</i> <i>Applied Nanoscience</i> , Vol:11, Pages:91-99 Impact Factor: 3.869 Quartile: 3 Citations: 10 DOI: 10.1007/s13204-020-01563-z	2021
Electrospun hierarchical fibrous composite membrane for pomegranate juice concentration using osmotic membrane distillation <i>Waheed-ur-Rehman Amir Khan Nazish Mushtaq Mohammad Younas Xiaochan An Muhammad Saddique Sarah Farrukh Yunxia Hu Mashallah Rezakazemi</i> <i>Journal of Environmental Chemical Engineering</i> , Volume 8, Issue 6, Article Number 104475 Impact Factor: 5.909 Quartile: 1 Citations: 22 DOI: https://doi.org/10.1016/j.jece.2020.104475	2020
Mass transfer modelling of hollow fiber membrane contactor for apple juice concentration using osmotic membrane distillation <i>Sher Ahmad Gabriela Vollet Marson Waheed Zeb Waheed Ur Rehman Mohammad Younas Sarah Farrukh Mashallah Rezakazemi</i> <i>Separation and Purification Technology</i> , Volume 250, Article Number 117209 Impact Factor: 7.312 Quartile: 1 Citations: 37 DOI: https://doi.org/10.1016/j.seppur.2020.117209	2020
Effects of Coagulation Residence Time on the Morphology and Properties of Poly (vinyl) Alcohol (PVA) Asymmetric Membrane via NIPS Method for O₂/N₂ Separation <i>Arshad Hussain Syed Shujaat Karim Sarah Farrukh Mohammad Younas</i> <i>Journal of Polymers and the Environment</i> , Volume 28, Pages 2810–2822 Impact Factor: 3.667 Quartile: 2 Citations: 9 DOI: https://doi.org/10.1007/s10924-020-01816-6	2020
Optimization analysis of polyurethane based mixed matrix gas separation membranes by incorporation of gamma-cyclodextrin metal organic frame work <i>Erum Pervaiz Sarah Farrukh Ovaïd Mehmood Arshad Hussain Ayesha Rehman Yangxian Liu Sajid Butt</i> <i>Chemical Papers</i> , Volume 74, Pages 3527–3543 Impact Factor: 2.097 Quartile: 3 Citations: 23 DOI: https://doi.org/10.1007/s11696-020-01179-1	2020

Post-combustion CO₂ capture with sweep gas in thin film composite (TFC) hollow fiber membrane (HFM) contactor <i>Mohammad Younas Tariq Tahir Chunrui Wu Sarah Farrukh Qazi Sohaib Amir Muhammad Mashallah Rezakazemi Jianxin Li</i> <i>Journal of CO₂ Utilization</i> , Volume 40, Article Number 01266 Impact Factor: 7.132 Quartile: 1 Citations: 34 DOI: 10.1016/j.jcou.2020.101266	2020
Enhancement in the selectivity of O₂/N₂ via ZIF-8/CA mixed-matrix membranes and the development of a thermodynamic model to predict the permeability of gases <i>Tayyaba Noor Shakir Ul Azam Arshad Hussain Sarah Farrukh Yangxian Liu</i> <i>Environmental Science and Pollution Research</i> , Volume 27, Issue 17, Pages 24413-24429 Impact Factor: 4.223 Quartile: 2 Citations: 18 DOI: https://doi.org/10.1007/s11356-020-08778-1	2020
Synthesis of 3-(Trimethoxysilyl) Propyl Methacrylate Functionalized Graphene Oxide Based Mixed Matrix Membrane and Its Application for O₂/N₂ Separation <i>Shahnaila Shah Huma Shaikh Sarah Farrukh Muhammad Imran Malik</i> <i>Pakistan Journal of Analytical and Environmental Chemistry</i> , Volume 21, No. 1, Pages 44 - 53 Impact Factor: - Citations: 5 DOI: doi.org/10.21743/pjaec/2020.06.06	2020
Development of high performance amine functionalized zeolitic imidazolate framework (ZIF -8)/cellulose triacetate mixed matrix membranes for CO₂ /CH₄ separation <i>Dr. Tayyaba Noor Ayesha Raza Sarah Farrukh Arshad Hussain Imran Ullah Khan Mohd Hafiz Dzarfan Othman Muhammad Fahad Yousaf</i> <i>International Journal of Energy Research</i> , Pages 1–11 Impact Factor: 5.164 Quartile: 1 Citations: 32 DOI: https://doi.org/10.1002/er.5448	2020
Synthesis and gas permeation analysis of TiO₂ nanotube-embedded cellulose acetate mixed matrix membranes <i>M. Hamza Rashid Sarah Farrukh Sofia Javed Arshad Hussain X. Fan Sarim Ali Muhammad Ayoub</i> <i>Chemical Papers</i> , Volume 74, Pages 821-828 Impact Factor: 2.097 Quartile: 3 Citations: 10 DOI: 10.1007/s11696-019-00913-8	2020
Adsorption of CO₂ on amine-functionalized green metal-organic framework: an interaction between amine and CO₂ molecules <i>Erum Pervaiz Sarah Farrukh Ayesha Rehman Arshad Hussain Xianfeng Fan</i> <i>Environmental Science and Pollution Research</i> , Volume 26, Pages 36214-36225 Impact Factor: 3.056 Quartile: 2 Citations: 26 DOI: https://doi.org/10.1007/s11356-019-06717-3	2019
A Compact Review on Physical Vapor Deposition Techniques of Thin Films <i>Muhammad Muzammil Sarah Farrukh Aftab Akram</i> <i>Journal of Thin Films, Coating Science Technology and Application</i> , Volume 6, Issue 2 Impact Factor: 0 DOI: -	2019
A comparative study of dynamic adsorption of anionic synthetic and nanocellulose-based surfactant in Malaysian reservoir <i>Muhammad Ayoub Mysara Eissa Mohyaldinn Syed Mohammad Mahmood Aqsha Aqsha Shiferaw Regassa Jufar Sarah Farrukh Farrukh Inayat Muhammad Rashid Shamsuddin</i> <i>Journal of Petroleum Exploration and Production Technology</i> , Pages 1-8 Impact Factor: N/A Citations: 5 DOI: 10.1007/s13202-019-00743-0	2019
Study Analysis of Nano Particle based Fiber Reinforced Plastics (FRP) Composites <i>Fahad Usaman Sarah Farrukh Sarim Ali Arshad Hussain</i> <i>Journal of Polymer & Composites</i> , Volume 7, Issue 2, Pages 17-22 Impact Factor: 0 DOI: -	2019
Mechanical Characterization of Fiber Glass Composites with Nanosilica <i>Fahad Usman Sarrah Farrukh Syed Sarim Ali Arshad Hussain</i> <i>International Journal of Chemical Separation Technology</i> , Volume 5, Issue 1	2019

Impact Factor: 0 DOI: -	
Optimisation of fuel in fire tube saturated steam boiler <i>Uzair Ibrahim Sarah Farrukh Arshad Hussain Muhammad Bilal Khan Niazi</i> <i>International Journal of Experimental Design and Process Optimisation</i> , Volume 6, Issue 2 Impact Factor: 0 DOI: 10.1504/IJEDPO.2019.101722	2019
Effect Analysis of Nickel Ferrite (NiFe₂O₄) and Titanium Dioxide (TiO₂) Nanoparticles on CH₄/CO₂ Gas Permeation Properties of Cellulose Acetate Based Mixed Matrix Membranes <i>Iqra Shakeel Arshad Husaain Sarah Farrukh</i> <i>Journal of Polymers and the Environment</i> , Volume 27, Issue 7, Pages 1449-1464 Impact Factor: 2.572 Quartile: 2 Citations: 32 DOI: 10.1007/s10924-019-01442-x	2019
Pursuance of Piper Nigrum and Cinnamomum Verum on Poly vinyl Alcohol-Starch Hydrogel Membrane <i>Hafsa Iqbal Sarah Farrukh Arshad Hussain Awais Hassan Sintayehu Mekuria Hailegiorgis</i> <i>JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN</i> , Volume 41, Issue 03, Impact Factor: 0.300 Quartile: 4 DOI: -	2019
To Explore the Effect of Polyethylene Glycol Additive on Mechanical and Gas Permeation Properties of Polyvinyl Alcohol Membranes <i>Arshad Hussain Muhammad Fahad Yousaf Sarah Farrukh</i> <i>Journal of Polymer & Composites</i> , Volume 7, Issue 1, Pages 27-33 Impact Factor: 0 DOI: -	2019
Improving gas barrier properties with boron nitride nanosheets in polymer-composites <i>Sarah Farrukh Muhammad Azeem Rahim Jan Arshad Hussain</i> <i>Results in Physics</i> , Volume 12, Pages 1535-1541 Impact Factor: 4.019 Quartile: 1 Citations: 29 DOI: 10.1016/j.rinp.2019.01.057	2019
Optimization study of polyethylene glycol and solvent system for gas permeation membranes <i>Sarah Farrukh Arshad Hussain Zarrar Salahuddin</i> <i>International Journal of Polymer Analysis and Characterization</i> , NULL Impact Factor: 1.426 Quartile: 3 Citations: 13 DOI: https://doi.org/10.1080/1023666X.2018.1485613	2018
Highly integrated nanocomposites of RGO/TiO₂ nanotubes for enhanced removal of microbes from water <i>Muhammad Junaid Afzal Erum pervaiz Sarah Farrukh Tahir Ahmed Zhang Bingxue Minghui Yang</i> <i>Environmental Technology</i> , Volume 40, No. 19, Pages 2567–2576 Impact Factor: 1.918 Quartile: 3 Citations: 21 DOI: 10.1080/09593330.2018.1447021	2018
High-pressure absorption study of CO₂ in aqueous N-methyldiethanolamine (MDEA) and MDEA-piperazine (PZ)-1-butyl-3-methylimidazolium trifluoromethanesulfonate [bmim][OTf] hybrid solvents <i>Saleem Nawaz Khan Sintayehu Mekuria Hailegiorgis Zakaria Man Sahil Garg Azmi Mohd Shariff Muhammad Ayoub Hosein Ghaedi Sarah Farrukh</i> <i>Journal of Molecular Liquids</i> , NULL Impact Factor: 4.561 Quartile: 1 Citations: 45 DOI: https://doi.org/10.1016/j.molliq.2017.11.145	2018
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2023

Reviewed Papers for Journals

Impact Factor: 6.760

Chemosphere

2023

Reviewed Papers for Journals

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Materials Today

2023

Reviewed Papers for Journals

Impact Factor: N/A

Materials today: proceedings

2022

Reviewed Papers for Journals

Impact Factor: N/A

Chemical Engineering Research & Design

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Applied Energy

2022

Reviewed Papers for Journals

Impact Factor: 9.74

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Reviewed Papers for Journals

Impact Factor: 1.8

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Reviewed Papers for Journals Impact Factor: 1.09	2019
Reviewed Papers for Journals Impact Factor: 5.15	2019
Edited Journal Issue / Proceeding / Book	2019
Reviewed Papers for Journals Impact Factor: 1.861	2019
Reviewed Papers for Journals	2019
Reviewed Papers for Journals Impact Factor: 1.383	2018

Intellectual Property

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Patents

A Novel Polymer of 2D boron nitride (BN) / polyethylene terephthalate (PET) with enhanced mechanical& gas barrier properties for beverage bottles Status: Filed	2022
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Industrial Designs

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Trainings

3 Weeks workshop on Energetic Materials vis-a-vis their Chemistry, Formulation & Safety Aspects Partner: Defense/Strategic Organization Duration: 22-May-2023 to 09-Jun-2023	2023
Modification in formulation of Energetic Materials & their effects Partner: Defense/Strategic Organization Duration: 06-Mar-2023 to 10-Mar-2023	2023
Modification in formulation of Energetic Materials & their effects Partner: Defense/Strategic Organization Duration: 29-Aug-2022 to 02-Sep-2022	2022
Aging Studies of Energetic Materials (Propellant and Explosive), 13- 17 June 2022 Partner: Defense/Strategic Organization Duration: 13-Jun-2022 to 17-Jun-2022	2022
The Science Fun Partner: None Duration: 20-May-2022 to 05-Aug-2022	2022
Workshop on Energetic Materials-Modern Developments, Trends and Challenges 11-15 October 2021 Partner: Defense/Strategic Organization Duration: 11-Oct-2021 to 15-Oct-2021	2021