Sarah Farrukh

Associate Professor

School of Chemical & Materials Engineering

Email: sarah.farrukh@scme.nust.edu.pk
Contact: 515149252
LinkedIn:

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, Seperations. Dr. Sarah Farrukh has published 108 research articles & conference papers having a citation count of 1391, carried out 5 projects and filed 1 intellectual property.

Qualifications

PhD in Membrane Sciences, Seperations 2011 - 2015
NUST, Islamabad , Pakistan

MS in Energetic Materials Engineering 2008 - 2010
NUST, Islamabad , Pakistan

MSc in Physics (Solid State Physics) 2004 - 2006
Quaid-i-Azam University , Pakistan

B.Sc (Hon) in computers and physics 2000 - 2004
Hamdard University , Pakistan

Experience

Associate Professor 2023- Present
School of Chemical & Materials Engineering

Associate Professor 2022 - 2023
School of Chemical & Materials Engineering

Associate Professor 2021 - 2022
School of Chemical & Materials Engineering

Assistant Professor 2021 - 2021
School of Chemical & Materials Engineering

Assistant Professor 2016 - 2021
School of Chemical & Materials Engineering

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 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
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 Soulaman 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 2024

Muhammad Haris Azhar Tayyaba Noor Naseem Iqbal Neelam Zaman Sara Farrukh

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

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

DOI: 10.1016/j.mseb.2023.117043

Fabrication and Permeation Analysis of Polysulfone (PSf) Modified Cellulose Triacetate (CTA) Blend Membranes for CO2 Separation from Methane (CH4 2023

Humais Roafi Sarah Farrukh Zarrar Salahuddin Ayesha Raza Syed Shujaat Karim Dr. Hizba Waheed

Journal of Polymers and the Environment, Pages: 17

Impact Factor: 5.3 | **Quartile:** 1 | **Citations:** 4

DOI: 10.1007/s10924-023-03125-0

A contemplating review on different synthesis methods of 2D-Molybdenum disulfide (MoS2) nanosheets 2023

Syed Shujaat Karim Abubakar Sudais Muhammad Salman Shah Sarah Farrukh Subhan Ali Mubashir Ahmed Zarrar Salahuddin Xianfeng Fan

Fuel, Volume 351, Article Number 128923

Impact Factor: 7.4 | **Quartile:** 1 | **Citations:** 24

DOI: https://doi.org/10.1016/j.fuel.2023.128923

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

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

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

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

DOI: 10.1007/s11356-023-30029-2

WS2 nanosheets rooted in polyethylene terephthalate membrane for gas barrier properties improvement 2023

Muhammad Salman Shah Sarah Farrukh Inamullah Douna Zarrar Salahuddin Arshad Hussain Abubakar Sudais Erum Pervaiz Maxime Pontie Mubashir 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

Blending of ZnO Nanorods in Cellulose Acetate Mixed Matrix Membrane for Enhancement of CO2 Permeability 2023

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

Challenges and issues with the performance of boron nitride rooted membrane for gas separation 2022

Zarrar Salauddin Marghoob Ahmed SarahFarrukh Sher Ahmad Abulhassan Ali Sofia Javed Arshad Hussain Mohammad Younas Sehar Shakir Awais Bokhari Abdulkader S. Hanbazazah

Chemosphere, 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

Investigation on the Redox Properties of a Novel Cu-Based Pr-Modified Oxygen Carrier for Chemical Looping Combustion 2022

Muhammad Qasim Muhammad Ayoub Aqsha Aqsha Nur Adibah Ghazali Sami Ullah Yoshito Ando Yoshito Ando Sarah farrukh

ACS Omega, Volume 7, Issue 45, Pages 40789-40798

Impact Factor: 4.132 | **Quartile:** 2 | **Citations:** 7

DOI: doi.org/10.1021/acsomega.2c02993

Model analysis on effect of temperature on the solubility of recycling of Polyethylene Terephthalate (PET) plastic 2022

Syed Shujaat Karim Sarah Farrukh Takeshi Matsuura Muhammad Ahsan Arshad Hussain Sehar Shakir Lai Fatt Chuah Mudassir Hasan Awais Bokhari

Chemosphere, 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

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:** 7
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 modifed CuO nanoparticles-mediated adsorbent oor removal oo methylene blue through polymer inclusion membranes transport: optimization of operational variables 2021

Kiran Mustafa Sara Musaddiq Sarah farrukh Sajjad Ahmad Hifsa Rasheed Imama Fayyaz
Desalination and Water Treatment, Volume 242, Pages 274-282
Impact Factor: 1.273 | **Quartile:** 4 | **Citations:** 6
DOI: 10.5004/dwt.2021.27838

Design and Development of a Computational Tool for a Dialyzer by Using Computational Fluid Dynamic (CFD) Model 2021

Tuba Yaqoob Muhammad Ahsan Sarah Farrukh Iftikhar Ahmad
Membranes, Volume 11, Issues 12, Article Number 916
Impact Factor: 4.106 | **Quartile:** 2 | **Citations:** 3
DOI: https://doi.org/10.3390/membranes11120916

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

Syed Shujaat Karim Sarah Farrukh Arshad Hussain Tayyaba Noor Mohammad Younas
Polymers and Polymer Composites, Volume 29, Issue 9, Pages S1630-S1640
Impact Factor: 3.171 | **Quartile:** 2 | **Citations:** 14
DOI: doi.org/10.1177/09673911211045852

Novel Cellulose Triacetate (CTA)/Cellulose Diacetate (CDA) Blend Membranes Enhanced by Amine Functionalized ZIF-8 for CO2 Separation 2021

Ayesha Raza Susilo Japip Can Zeng Liang Sarah Farrukh Arshad Hussain Tai-Shung Chung
Polymers, Volume 13(17), Article Number 2946
Impact Factor: 4.967 | **Quartile:** 1 | **Citations:** 20
DOI: 10.3390/polym13172946

Magnesium doped TiO2 as efficient electron transport layer in perovskite solar cells 2021

Zafar Arshad Asif Hussain Khoja Sehar Shakir Asif Afzal M A Mujtaba Manzoor Elahi M Soudagar H Fayyaz Ahamed Saleel Sara Farukh Mudassar Saeed
Case Studies in Thermal Engineering, Volume 26, Article Number 101101
Impact Factor: 6.268 | **Quartile:** 1 | **Citations:** 49
DOI: https://doi.org/10.1016/j.csite.2021.101101

Development of mass and heat transfer coupled model of hollow fiber membrane for salt recovery from brine via osmotic membrane distillation 2021

Sher Ahmad Gabriela Vollet Marson Waheed Ur Rehman Mohammad Younas Sarah Farrukh Mashallah Rezakazemi
Environmental Sciences Europe, Volume 33, Article Number 81
Impact Factor: 5.481 | **Quartile:** 2 | **Citations:** 9
DOI: https://doi.org/10.1186/s12302-021-00520-z

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

Zarrar Salahuddin Sarah Farrukh Arshad Hussain Tayyaba Noor Witold Kwapinski
Polymer and Polymer Composite, Pages 1-12
Impact Factor: 1.841 | **Quartile:** 3 | **Citations:** 4
DOI: https://doi.org/10.1177/09673911211023303

Thickness Effect on Permeance of CO2/CH4 Gases in CA Coated PVDF Composite Membranes 2021

Ayesha Raza Muhammad Fahad Yousaf Sarah Farrukh Arshad Hussain
Transactions of the Indian Ceramic Society, Volume 80, Issue 2, Pages 89-95
Impact Factor: 2.355 | **Quartile:** 2 | **Citations:** 4
DOI: https://doi.org/10.1080/0371750X.2021.1880969

Sonochemical synthesis of Co3O4 nanoparticles deposited on GO sheets and their potential application as a nanofiller in MMMs for O2/N2 separation 2021

Shahnila Shah Huma Shaikh Sarah Farrukh Muhammad Imran Malik Zaib un Nisa Mughal Shabana Bhagat
RSC Advances, Volume 11(32), Pages 19647-19655
Impact Factor: 4.036 | **Quartile:** 2 | **Citations:** 6
DOI: 10.1039/D1RA02264D

Glycerol Conversion to Solketal: Catalyst and Reactor Design, and Factors Affecting the Yield 2021

Imtisal Zahid Muhammad Ayoub Bawadi Abdullah Ahmad Mukhtar Sidra Saqib p Sikander Rafiq Sami Ullah Sarah Farrukh Mohammed Danish
ChemBioChem Reviews, Volume 8, Issue 3, Pages 227-238

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 2021

Ayesha Raza Muhammad Askari Can zeng liang Napeng Sarah Farrukh Arshad Hussain Pai-shung chung

Journal of Membrane Science, Volume 625, Article Number 119124

Impact Factor: 10.530 | **Quartile:** 1 | **Citations:** 17
DOI: 10.1016/j.memsci.2021.119124

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

Performance Analysis of Blended Membranes of Cellulose Acetate with Variable Degree of Acetylation for CO2/CH4 Separation 2021

Sarrah Farrukh Mohd Hafiz Dzarfan Othman Arshad Hussain Imran Ullah Khan Mohd Hafiz Dzarfan Othman Ayesha Raza Mohd Hafiz Dzarfan Othman Muhammad Ahsan

Membranes, Volume 11, Issue 4, Article Number 245

Impact Factor: 4.562 | **Quartile:** 1 | **Citations:** 19
DOI: https://doi.org/10.3390/membranes11040245

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

Tasmia Azam Erum Pervaiz Sarah Farrukh Tayyaba Noor

Materials Research Express, Volume 8, Article Number 015019

Impact Factor: 2.025 | **Quartile:** 4 | **Citations:** 12
DOI: https://doi.org/10.1088/2053-1591/abd822

Gas barrier properties evaluation for boron nitride nanosheets-polymer (polyethylene-terephthalate) composites 2021

Atif Ayub Sarah Farrukh Rahim Jan Muhammad Azeem Zarrar Salahuddin Arshad Hussain

Applied Nanoscience, Vol:11, Pages:91-99

Impact Factor: 3.869 | **Quartile:** 3 | **Citations:** 10
DOI: 10.1007/s13204-020-01563-z

Electrospun hierarchical fibrous composite membrane for pomegranate juice concentration using osmotic membrane distillation 2020

Waheed-ur-Rehman Amir Khan Nazish Mushtaq Mohammad Younas Xiaochan An Muhammad Saddique Sarah Farrukh Yunxia Hu Mashallah Rezakazemi

Journal of Environmental Chemical Engineering, 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

Mass transfer modelling of hollow fiber membrane contactor for apple juice concentration using osmotic membrane distillation 2020

Sher Ahmad Gabriela Vollet Marson Waheed Zeb Waheed Ur Rehman Mohammad Younas Sarah Farrukh Mashallah Rezakazemi

Separation and Purification Technology, Volume 250, Article Number 117209

Impact Factor: 7.312 | **Quartile:** 1 | **Citations:** 37
DOI: https://doi.org/10.1016/j.seppur.2020.117209

Effects of Coagulation Residence Time on the Morphology and Properties of Poly (vinyl) Alcohol (PVA) Asymmetric Membrane via NIPS Method for O2/N2 Separation 2020

Arshad Hussain Syed Shujaat Karim Sarah Farrukh Mohammad Younas

Journal of Polymers and the Environment, Volume 28, Pages 2810–2822

Impact Factor: 3.667 | **Quartile:** 2 | **Citations:** 9
DOI: https://doi.org/10.1007/s10924-020-01816-6

Optimization analysis of polyurethane based mixed matrix gas separation membranes by incorporation of gamma-cyclodextrin metal organic frame work 2020

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
DOI: https://doi.org/10.1007/s11696-020-01179-1

Post-combustion CO2 capture with sweep gas in thin film composite (TFC) hollow fiber membrane (HFM) contactor 2020

Mohammad Younas Tariq Tahir Chunrui Wu Sarah Farrukh Qazi Sohaib Amir Muhammad Mashallah Rezakazemi Jianxin Li

Journal of CO2 Utilization, Volume 40, Article Number 01266

Impact Factor: 7.132 | **Quartile:** 1 | **Citations:** 34

DOI: 10.1016/j.jcou.2020.101266

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

Tayyaba Noor Shakir Ul Azam Arshad Hussain Sarah Farrukh Yangxian Liu

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

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

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

Synthesis of 3-(Trimethoxysilyl) Propyl Methacrylate Functionalized Graphene Oxide Based Mixed Matrix Membrane and Its Application for O2/N2 Separation 2020

Shahnila Shah Huma Shaikh Sarah Farrukh Muhammad Imran Malik

Pakistan Journal of Analytical and Environmental Chemistry, Volume 21, No. 1, Pages 44 - 53

Impact Factor: - | **Citations:** 5

DOI: doi.org/10.21743/pjaec/2020.06.06

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

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

International Journal of Energy Research, Pages 1–11

Impact Factor: 5.164 | **Quartile:** 1 | **Citations:** 32

DOI: https://doi.org/10.1002/er.5448

Synthesis and gas permeation analysis of TiO2 nanotube-embedded cellulose acetate mixed matrix membranes 2020

M. Hamza Rashid Sarah Farrukh Sofia Javed Arshad Hussain X. Fan Sarim Ali Muhammad Ayoub

Chemical Papers, Volume 74, Pages 821-828

Impact Factor: 2.097 | **Quartile:** 3 | **Citations:** 10

DOI: 10.1007/s11696-019-00913-8

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

A Compact Review on Physical Vapor Deposition Techniques of Thin Films 2019

Muhammad Muzammil Sarah Farrukh Aftab Akram

Journal of Thin Films, Coating Science Technology and Application, Volume 6, Issue 2

Impact Factor: 0

DOI: -

A comparative study of dynamic adsorption of anionic synthetic and nanocellulose-based surfactant in Malaysian reservoir 2019

Muhammad Ayoub Mysara Eissa Mohyaldinn Syed Mohammad Mahmood Aqsha Aqsha Shiferaw Regassa Jufar Sarah Farrukh Farrukh Inayat Muhammad Rashid Shamsuddin

Journal of Petroleum Exploration and Production Technology, Pages 1-8

Impact Factor: N/A | **Citations:** 5

DOI: 10.1007/s13202-019-00743-0

Study Analysis of Nano Particle based Fiber Reinforced Plastics (FRP) Composites 2019

Fahad Usaman Sarah Farrukh Sarim Ali Arshad Hussain

Journal of Polymer & Composites, Volume 7, Issue 2, Pages 17-22

Impact Factor: 0

DOI: -

Mechanical Characterization of Fiber Glass Composites with Nanosilica 2019

Fahad Usman Sarrah Farrukh Syed Sarim Ali Arshad Hussain

International Journal of Chemical Separation Technology , Volume 5, Issue 1

Impact Factor: 0
DOI: -

Optimisation of fuel in fire tube saturated steam boiler 2019

Uzair Ibrahim Sarah Farrukh Arshad Hussain Muhammad Bilal Khan Niazi

International Journal of Experimental Design and Process Optimisation, Volume 6, Issue 2

Impact Factor: 0
DOI: 10.1504/IJEDPO.2019.101722

Effect Analysis of Nickel Ferrite (NiFe2O4) and Titanium Dioxide (TiO2) Nanoparticles on CH4/CO2 Gas Permeation Properties of Cellulose Acetate Based Mixed Matrix Membranes 2019

Iqra Shakeel Arshad Husaain Sarah Farrukh

Journal of Polymers and the Environment, Volume 27, Issue 7, Pages 1449-1464

Impact Factor: 2.572 | **Quartile:** 2 | **Citations:** 32
DOI: 10.1007/s10924-019-01442-x

Pursuance of Piper Nigrum and Cinnamomum Verum on Poly vinyl Alcohol-Starch Hydrogel Membrane 2019

Hafsa Iqbal Sarah Farrukh Arshad Hussain Awais Hassan Sintayehu Mekuria Hailegiorgis

JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, Volume 41, Issue 03,

Impact Factor: 0.300 | **Quartile:** 4
DOI: -

To Explore the Effect of Polyethylene Glycol Additive on Mechanical and Gas Permeation Properties of Polyvinyl Alcohol Membranes 2019

Arshad Hussain Muhammad Fahad Yousaf Sarah Farrukh

Journal of Polymer & Composites, Volume 7, Issue 1, Pages 27-33

Impact Factor: 0
DOI: -

Improving gas barrier properties with boron nitride nanosheets in polymer-composites 2019

Sarah Farrukh Muhammad Azeem Rahim Jan Arshad Hussain

Results in Physics, Volume 12, Pages 1535-1541

Impact Factor: 4.019 | **Quartile:** 1 | **Citations:** 29
DOI: 10.1016/j.rinp.2019.01.057

Optimization study of polyethylene glycol and solvent system for gas permeation membranes 2018

Sarah Farrukh Arshad Hussain Zarrar Salahuddin

International Journal of Polymer Analysis and Characterization, NULL

Impact Factor: 1.426 | **Quartile:** 3 | **Citations:** 13
DOI: https://doi.org/10.1080/1023666X.2018.1485613

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
DOI: 10.1080/09593330.2018.1447021

High-pressure absorption study of CO2 in aqueous N-methyldiethanolamine (MDEA) and MDEA-piperazine (PZ)-1-butyl-3-methylimidazolium trifluoromethanesulfonate [bmim][OTf] hybrid solvents 2018

Saleem Nawaz Khan Sintayehu Mekuria Hailegiorgis Zakaria Man Sahil Garg Azmi Mohd Shariff Muhammad Ayoub Hosein Ghaedi Sarah Farrukh

Journal of Molecular Liquids, NULL

Impact Factor: 4.561 | **Quartile:** 1 | **Citations:** 45
DOI: https://doi.org/10.1016/j.molliq.2017.11.145

Experimental and prediction of volumetric properties of aqueous solution of (allyltriphenylPhosphonium bromide?Triethylene glycol) deep eutectic solvents 2017

Hosein Ghaedi Muhammad Ayouba Suriati Sufiana Sintayehu Mekuria Hailegiorgis Ghulam Murshid Sarah Farrukh Saleem Nawaz Khan

Thermochimica Acta , NULL

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Chemosphere 2023

Reviewed Papers for Journals

Impact Factor: 8.943

Materials Today 2023

Reviewed Papers for Journals

Impact Factor: N/A

Materials today: proceedings 2022

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Impact Factor: N/A

Chemical Engineering Research & Design 2022

Reviewed Papers for Journals

Impact Factor: 4.119

Applied Energy 2022

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2022

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2022

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2021

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Intellectual Property

Copyrights

Patents

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Status: Filed

Industrial Designs

Trademarks

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Duration: 22-May-2023 to 09-Jun-2023

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