

Nasir Mahmood Ahmad

Professor

School of Chemical & Materials Engineering

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About

Dr. Nasir Mahmood Ahmad is working as Professor in the School of Chemical & Materials Engineering. Dr. Nasir Mahmood Ahmad has a PhD in Polymers. Dr. Nasir Mahmood Ahmad has published 94 research articles & conference papers having a citation count of 2544, carried out 6 projects and filed 5 intellectual property.

Qualifications

PhD in Polymers University of Manchester , United Kingdom	1995 - 1999
MSc in Chemistry University of the Punjab , Pakistan	1990 - 1992
BSc in Chemistry University of the Punjab , Pakistan	1987 - 1989

Experience

Professor School of Chemical & Materials Engineering	2024- Present
Professor School of Chemical & Materials Engineering	2024 - 2024
Professor School of Chemical & Materials Engineering	2021 - 2018
Professor School of Chemical & Materials Engineering	2018 - 2016
Professor School of Chemical & Materials Engineering	2016 - 2024
Professor School of Chemical & Materials Engineering	2013 - 2021
Associate Professor School of Chemical & Materials Engineering	2008 - 2013
Polymer Process Scientist Celanese Corp./AT Plastics , Celanese Corp./AT Plastics, Canada 2Y-1M	2006 - 2008
Research Associate McGill University , McGill University, Canada	2004 - 2005
Technical Project Director Polychem Product Ltd/Tech Blend, , Polychem Product Ltd/Tech Blend, Canada	2002 - 2004
Post-doc Fellowship McGill University , McGill University, Canada	2000 - 2002

Awards

Best Researcher Best Researcher Award	2018
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Research Projects

National Projects

PAK-UK Education Gateway Mobility Partnership Grant for Faculty	2023
Funding Agency: British Council, UK	
Amount: PKR 40,227,000.00	
Status: Completed	
Development and Appraisal of self healing polymer anti corrosion coating	2011
Funding Agency: British Petroleum	
Amount: PKR 1,383,000.00	
Status: Completed	
Development of Engineering rubber compounds for automotive	2018
Funding Agency: HEC	
Amount: PKR 10,849,000.00	
Status: Completed	
Intrinsic Benign Antifouling Functional Polymers and Transparent Compositions for Culture Commercial Scale Photobioreactors	2015
Funding Agency: HEC	
Amount: PKR 6,241,000.00	
Status: Completed	
Design and Development of Hybrid (UV-03) Treatment System for the Removal of Chlorination byproducts in Swimming Pool Water	2018
Funding Agency: HEC	
Amount: PKR 498,000.00	
Status: Completed	
Water Treatment Using High Performance Antifouling Functional Polymer Membranes In combination with activated carbon filtration	2017
Funding Agency: HEC	
Amount: PKR 16,596,000.00	
Status: Completed	

International Projects

Research Articles

Boosting water flux and dye removal: Advanced composite membranes incorporating functionalized AC-PAA for wastewater treatment	2025
Imran Ahmad Khan Kashif Mairaj Deen Edouard Asselin Muhammad Yasir Rehan Sadiq Nasir Mahmood Ahmad	
Journal of Industrial and Engineering Chemistry, Volume:145, Pages: 705-720	
Impact Factor: 5.9 Quartile: 1 Citations: 6	
DOI: https://doi.org/10.1016/j.jiec.2024.10.067	
Smart membranes engineered by surface-initiated ATRP polymer-grafting of carbon nanotubes and analyzed with RSM modelling	2024
Imran Ahmad Khan Nasir Mahmood Ahmad	
Emergent Materials , Pages 1-15	
Impact Factor: 4.800 Quartile: 2 Citations: 2	
DOI: https://doi.org/10.1007/s42247-024-00890-z	
Ultrasonic assisted removal of methyl orange and bovine serum albumin from wastewater using modified activated carbons: RSM optimization and reusability	2024
Imran Ahmad Khan Asad Ullah Khan Kashif Mairaj Deen Edouard Asselin Rehan Sadiq Muhammad Yasir Nasir Mahmood Ahmad	
Materials Research Express, Volume: 11, Number: 09, Article Number: 095505	
Impact Factor: 1.8 Quartile: 3 Citations: 4	
DOI: 10.1088/2053-1591/ad76fe	
Performance of a Ship-Based Cupronickel Alloy in Exposure Conditions of Arabian Seawater—A Comparative Study	2024
Syed Ali Sarfraz Muntazir Abbas Nasir Mahmood Ahmad	
Materials , Volume 17(16), Article Number 3940	
Impact Factor: 3.100 Quartile: 1 Citations: 1	

DOI: 10.3390/ma17163940

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

Regenerable chitosan-embedded magnetic iron oxide beads for nitrate removal from industrial wastewater

2024

Muntaha Nasir Farhan Javaid Muhammad Talha Masood Muhammad Arshad Muhammad Yasir Vladimir Sedlarik Muhammad Abdel Qadir Hazim Qiblawey
Wenjuan Zhang Kashif Mairaj Deen Edouard Asselin Dr. Nasir Mahmood Ahmad
Environmental Science: Advances , Volume 3(4), Pages 572-584

Impact Factor: 3.500 | **Quartile:** 2 | **Citations:** 8

DOI: 10.1039/D3VA00351E

Analyzing effects of damping materials on automotive bumper beam assembly under different velocity conditions

2024

Dil Jan Shahid Ikramullah Butt Muhammad Salman Khan Nasir Mahmood Ahmad Ghullam Hussain
Journal of Thermoplastic Composite Materials, Pages 1-19

Impact Factor: 3.3 | **Quartile:** 2 | **Citations:** 2

DOI: <https://doi.org/10.1177/08927057241240720>

Ultrafiltration polyanionic poly (3-sulfopropyl methacrylate) membranes with enhanced antifouling and water flux

2024

Raja Muhammad Asif Khan Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain A. Janjua Nasir Mahmood Ahmad
Polymers Advanced Technologies, Volume 35, Issue 3, Article Number e6350

Impact Factor: 3.100 | **Quartile:** 2 | **Citations:** 1

DOI: <https://doi.org/10.1002/pat.6350>

Recent advances on humic acid removal from wastewater using adsorption process

2023

Tamara Alomar Hazim Qiblawey Fares Almomani Riyadh I. Al-Raoush Dong Suk Han Nasir Mahmood Ahmad
Journal of Water Process Engineering, Volume 53, Article Number 103679

Impact Factor: 7.0 | **Quartile:** 1 | **Citations:** 59

DOI: 10.1016/j.jwpe.2023.103679

Antifouling and Water Flux Enhancement in Polyethersulfone Ultrafiltration Membranes by Incorporating Water-Soluble Cationic Polymer of Poly [2-(Dimethyl amino) ethyl Methacrylate]

2023

Raja Muhammad Asif Khan Nasir Mahmood Ahmad Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain Ahmed Janjua
Polymers , Volume 15(13), Article Number 2868

Impact Factor: 5.0 | **Quartile:** 1 | **Citations:** 11

DOI: <https://doi.org/10.3390/polym15132868>

Response Surface Methodology Modeling Correlation of Polymer Composite Carbon Nanotubes/Chitosan Nanofiltration Membranes for Water Desalination

2023

Momina Batool M. Asad Abbas Imran Ahmed Khan Muhammad Zafar Khan Mohsin Saleem Asad U. Khan Kashif Mairaj Deen Mehwish Batool Asim Laeeq
Khan Shenmin Zhu Nasir M. Ahmad
ACS Environmental Science and Technology Water , Volume 3, Issue 5, Pages 1406-1421

Impact Factor: 4.800 | **Quartile:** 1 | **Citations:** 8

DOI: <https://doi.org/10.1021/acsestwater.3c00107>

Antibacterial PES/Vancomycin ultrafiltration membranes with enhanced water flux and low BSA rejection

2023

Zubia Abid M. Asad Abbas Hussnain Junjua Naveed Ahmed Nasir Mahmood Ahmad
Water and Environment Journal, Pages 1-12

Impact Factor: 2.000 | **Quartile:** 2 | **Citations:** 3

DOI: <https://doi.org/10.1111/wej.12866>

Probing the behavior and kinetic studies of amphiphilic acrylate copolymers with bovine serum albumin

2023

Shehla Mushtaq Muhammad Asad Abbas Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain Ahmed Janjua Nasir Mahmood Ahmad
Scientific Reports , Volume: 13, Issue: 1, Article number: 4572

Impact Factor: 4.997 | **Quartile:** 2 | **Citations:** 6

DOI: 10.1038/s41598-023-27515-5

- The Synergistic Effect of Polystyrene/Modified Boron Nitride Composites for Enhanced Mechanical, Thermal and Conductive Properties** 2023
Shafi Ur Rehman Sana Javaid Muhammad Shahid Nasir Mahmood Ahmad Badar Rashid Caroline R. Szczepanski Asim Shahzad
Polymers , Volume 15(1), Article Number 235
Impact Factor: 4.967 | **Quartile:** 1 | **Citations:** 5
DOI: <https://doi.org/10.3390/polym15010235>
- Optimize PLA/EVA Polymers Blend Compositional Coating for Next Generation Biodegradable Drug-Eluting Stents** 2022
Naila Ishaque Nauman Naseer Muhammad Asad Abbas Fatima Javed Shehla Mushtaq Nasir Mahmood Ahmad Muhammad Farhan Ali Khan Naveed Ahmed Abdelhamid Elaissari
Polymers , Volume 14, Issue 17, Article Number 3547
Impact Factor: 4.967 | **Quartile:** 1 | **Citations:** 18
DOI: [10.3390/polym14173547](https://doi.org/10.3390/polym14173547)
- Novel Magnetic Elastic Phase-Change Nanodroplets as Dual Mode Contrast Agent for Ultrasound and Magnetic Resonance Imaging** 2022
Ramish Riaz Hira Waqar Nasir Mahmood Ahmad Shah Rukh Abbas
Polymers , Volume 14(14), Article Number 2915
Impact Factor: 4.967 | **Quartile:** 1 | **Citations:** 5
DOI: <https://doi.org/10.3390/polym14142915>
- Graphene oxide incorporated polyether sulfone nanocomposite antifouling ultrafiltration membranes with enhanced hydrophilicity** 2022
Amber Salim Muhammad Asad Abbas Imran Ahmad Khan Muhammad Zafar Khan Farhan Javaid Shehla Mushtaq Mehwish Batool Muhammad Yasir Asim Laeeq Khan Asad Ullah Khan Kashif Mairaj Deen Nasir Mahmood Ahmad
Materials Research Express , Volume 9, Issue 7, Article Number 075503
Impact Factor: 2.025 | **Quartile:** 4 | **Citations:** 8
DOI: [10.1088/2053-1591/ac81a3](https://doi.org/10.1088/2053-1591/ac81a3)
- Layer-By-Layer Self-Assembled Dip Coating for Antifouling Functionalized Finishing of Cotton Textile** 2022
Sana Javaid Azhar Mahmood Habib Nasir Mudassir Iqbal Naveed Ahmed Nasir Mahmood Ahmad
Polymers , Volume 14, Issue 13, Article Number 2540
Impact Factor: 4.967 | **Quartile:** 1 | **Citations:** 16
DOI: doi.org/10.3390/POLYM14132540
- Water Treatment Using High Performance Antifouling Ultrafiltration Polyether Sulfone Membranes Incorporated with Activated Carbon** 2022
Zubia Abid Asad Abbas Azhar Mahmood Nosheen Fatima Rana Sher Jamal Khan Laurent Duclaux Kashif Mairaj Deen Nasir Mahmood Ahmad
Polymers , Volume 14, Issue 11, Article Number 2264
Impact Factor: 4.967 | **Quartile:** 1 | **Citations:** 8
DOI: <https://doi.org/10.3390/polym14112264>
- Monodisperse magnetic lecithin-PFP submicron bubbles as dual imaging contrast agents for ultrasound (US) and MRI** 2022
Hira Waqar Ramish Riaz Nasir Mahmood Ahmad Ayesha Isani Majeed Shah Rukh Abbas
RSC Advances , Volume 12, Pages 10504-10513
Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 8
DOI: <https://doi.org/10.1039/D2RA01542K>
- Amphiphilic copolymers of dimethyl aminoethyl methacrylate and methyl methacrylate with controlled hydrophilicity for antialgal activity** 2022
Shehla Mushtaq Muhammad Asad Abbas Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain Ahmed Janjua Qamar Malik Nasir Mahmood Ahmad
Journal of Applied Polymer Science , Volume 139, Issue 5, Article Number 51578
Impact Factor: 3.0 | **Quartile:** 2 | **Citations:** 4
DOI: <https://doi.org/10.1002/app.51578>
- Antialgal Synergistic Polystyrene Blended with Polyethylene Glycol and Silver Sulfadiazine for Healthcare Applications** 2021
M. Raheel Anjum Shehla Mushtaq M. Asad Abbas Azhar Mahmood Habib Nasir Hussnain Ahmed Janjua Qamar Malik Nasir Mahmood Ahmad
Advances in Polymer Technology , Volume 2021, Article ID 6627736, 9 pages
Impact Factor: 2.389 | **Quartile:** 3 | **Citations:** 1
DOI: <https://doi.org/10.1155/2021/6627736>

- Incorporating covalent organic framework nanosheets into polyamide membranes for efficient desalination** 2021
Niaz Ali Khan Hong Wu Yu Jinqiu Wu Mengyuan Pengfei Yang Mengying Long Ata Ur Rahman Nasir Mahmood Ahmad Runnan Zhang Zhongyi Jiang
Separation and Purification Technology, Volume 274, Article Number 119046
Impact Factor: 7.312 | **Quartile:** 1 | **Citations:** 35
DOI: 10.1016/j.seppur.2021.119046
- Anti-Foulant Ultrafiltration Polymer Composite Membranes Incorporated with Composite Activated Carbon/Chitosan and Activated Carbon/Thiolated Chitosan with Enhanced Hydrophilicity** 2021
Syeda Samia Nayab M. Asad Abbas Shehla Mushtaq Muhammad Bilal Khan Niazi Mehwish Batool Gul Shehnaz Naveed Ahmad Nasir Mahmood Ahmad
Membranes, Volume 11(11), Article Number 827
Impact Factor: 4.106 | **Quartile:** 1 | **Citations:** 20
DOI: 10.3390/membranes11110827
- Impedance Spectroscopy Analysis of PbSe Nanostructures Deposited by Aerosol Assisted Chemical Vapor Deposition Approach** 2021
Sadia Iram Azhar Mahmood Muhammad Fahad Ehsan Asad Mumtaz Manzar Sohail Effat Sitara Shehla Mushtaq Mohammad Azad Malik Syeda Arooj Fatima Rubina Shaheen Nasir Mahmood Ahmad Sajid Nawaz Malik
Nanomaterials, Volume 11(11), Article Number 2817
Impact Factor: 5.719 | **Quartile:** 1 | **Citations:** 4
DOI: 10.3390/nano11112817
- Hybrid Beads of Zero Valent Iron Oxide Nanoparticles and Chitosan for Removal of Arsenic in Contaminated Water** 2021
Mian Fawaz Ahmed Muhammad Asad Abbas Azhar Mahmood Nasir Mahmood Ahmad Hifza Rasheed Muhammad Abdul Qadir Asad Ullah Khan Hazim Qiblawey Shenmin Zhu Rehan Sadiq Niaz Ali Khan
Water, Volume 13(20), Article Number 2876
Impact Factor: 3.103 | **Quartile:** 2 | **Citations:** 10
DOI: 10.3390/w13202876
- Corrosion Resistance Synergistic Appraisal of Titanium-Impregnated Bisphenol A-Type Epoxy Duplex Coating System in Stimulated and Natural Marine Environments of Southeastern Coastal Area of China–Pakistan Economic Corridor** 2021
Ishrat Jamil Humaira Bano Vinod C. Malshe Azhar Mahmood Kamran Khan Nasir Mahmood Ahmad
Advances in Polymer Technology, Volume 2021, Article ID 9910969, 11 pages
Impact Factor: 2.389 | **Quartile:** 3
DOI: 10.1155/2021/9910969
- Cefotaxime Loaded Polycaprolactone Based Polymeric Nanoparticles with Antifouling Properties for In-Vitro Drug Release Applications** 2021
Sana Javaid Nasir Mahmood Ahmad Azhar Mahmood Habib Nasir Mudassir Iqbal Naveed Ahmad Sundus Irshad
Polymers, Volume 13(13), Article Number 2180
Impact Factor: 4.329 | **Quartile:** 1 | **Citations:** 29
DOI: <https://doi.org/10.3390/polym13132180>
- TiO₂ Nanoparticle Filler-Based Mixed-Matrix PES/CA Nanofiltration Membranes for Enhanced Desalination** 2021
Mehwish Batool Amir Shafeeq Bilal Haider Nasir Mahmood Ahmad
Membranes, Volume 11(6), Article Number 433
Impact Factor: 4.106 | **Quartile:** 2 | **Citations:** 35
DOI: <https://doi.org/10.3390/membranes11060433>
- Synthesis of diosgenin conjugated gold nanoparticles using algal extract of Dictyosphaerium sp. and in-vitro application of their antiproliferative activities** 2021
Sundus Jabeen Amina Maheen Iqbal Amir Faisal Zunaira Shoaib Muhammad Bilal Khan Niazi Nasir Mahmood Ahmad Nauman Khalid Hussnain A. Janjua
Materials Today Communications, Volume 27, Article Number 102360
Impact Factor: 3.662 | **Quartile:** 3 | **Citations:** 18
DOI: <https://doi.org/10.1016/j.mtcomm.2021.102360>
- Magnetic Nanoparticles: From Synthesis to Theranostic Applications** 2021
Sumera Khizar Nasir Mahmood Ahmad Nadia Zine Nicole Jaffrezic-Renault Abdelhamid Errachid-el-salhi Abdelhamid Elaissari
ACS Applied Nano Materials, Volume 4(5), Pages 4284-4306
Impact Factor: 5.097 | **Quartile:** 2 | **Citations:** 103
DOI: <https://doi.org/10.1021/acsanm.1c00852>

- Preparation and characterization of guar gum based biopolymeric hydrogels for controlled release of antihypertensive drug** 2021
Hina Daud Ambreen Ghani Dure Najaf Iqbal Nasir Mahmood Ahmad Saliha Nazir Mahnoor Jan Muhammad Erum Akbar Hussain Arif Nazir Munawar Iqbal Arabian Journal of Chemistry, Volume 14, Issue 5, Article Number 03111
Impact Factor: 5.165 | **Quartile:** 2 | **Citations:** 51
DOI: 10.1016/j.arabjc.2021.103111
- Gd3+ Doped CoFe2O4 Nanoparticles for Targeted Drug Delivery and Magnetic Resonance Imaging** 2021
Fatima Javed Muhammad Asad Abbas Muhammad Imran Asad Naveed Ahmed Nauman Naseer Hassan Saleem Abdelhamid Errachid Nouredine Lebaz Abdelhamid Elaissari Nasir Mahmood Ahmad Magnetochemistry, Volume 7(4), Article Number 47
Impact Factor: 2.193 | **Quartile:** 3 | **Citations:** 26
DOI: 10.3390/magnetochemistry7040047
- Antifouling and Flux Enhancement of Reverse Osmosis Membrane by Grafting Poly (3-Sulfopropyl Methacrylate) Brushes** 2021
Reema Mushtaq Muhammad Asad Abbas Shehla Mushtaq Nasir Mahmood Ahmad Niaz Ali Khan Asad U. Khan Wu Hong Rehan Sadiq Zhongyi Jiang Membranes, Volume 11(3), Pages 213
Impact Factor: 4.106 | **Quartile:** 2 | **Citations:** 19
DOI: 10.3390/membranes11030213
- An efficient approach for development and optimisation of curcumin-loaded solid lipid nanoparticles' patch for transdermal delivery** 2021
Fakhara Sabir Maimoona Qindeel Asim.ur. Rehman Nasir Mahmood Ahmad Gul Majid Khan Ildiko Csoka Naveed Ahmed Journal of Microencapsulation, Volume 38, No. 4, Pages 233-248
Impact Factor: 3.142 | **Quartile:** 2 | **Citations:** 22
DOI: 10.1080/02652048.2021.1899321
- Reactive Extrusion of Maleic-Anhydride-Grafted Polypropylene by Torque Rheometer and Its Application as Compatibilizer** 2021
Asra Tariq Nasir Mahmood Ahmad Muhammad Asad Abbas M Fayzan Shakir Zubair Khaliq Sikandar Rafiq Zulfiqar Ali Abdelhamid Elaissari Polymers, Volume 13(4), Article Number 495
Impact Factor: 4.329 | **Quartile:** 1 | **Citations:** 27
DOI: <https://doi.org/10.3390/polym13040495>
- Antibacterial Amphiphilic Copolymers of Dimethylamino Ethyl Methacrylate and Methyl Methacrylate to Control Biofilm Adhesion for Antifouling Applications** 2021
Shehla Mushtaq Nasir M. Ahmad Azhar Mahmood Mudassir Iqbal Polymers, Volume 13(2), Article Number 216
Impact Factor: 4.329 | **Quartile:** 1 | **Citations:** 23
DOI: <https://doi.org/10.3390/polym13020216>
- Advances and Trends in Chemically Doped Graphene** 2020
Sami Ullah Qitao Shi Junhua Zhou Xiaojin Yang Huy Q. Ta Maria Hasan Nasir Mahmood Ahmad Lei Fu Alicja Bachmatiuk Mark H. Rummeli Advanced Materials Interfaces, Volume:7, Issue:24, Article ID:2000999
Impact Factor: 6.147 | **Quartile:** 2 | **Citations:** 106
DOI: 10.1002/admi.202000999
- Transpicious-Cum-Fouling Resistant Copolymers of 3-Sulfopropyl Methacrylate and Methyl Methacrylate for Optronics Applications in Aquatic Medium and Healthcare** 2020
Shehla Mushtaq Nasir M. Ahmad Azhar Mahmood Shehla Mushtaq Habib Nasir Hussnain A. Janjua Advances in Polymer Technology, Volume 2020, Article ID 5392074, 11 pages
Impact Factor: 2.389 | **Quartile:** 3 | **Citations:** 14
DOI: <https://doi.org/10.1155/2020/5392074>
- pH tunable thin film gradients of magnetic polymer colloids for MRI diagnostics** 2020
Sumera Khizar Nasir Mahmood Ahmad Polymers, Volume 12, Issue 9, Article Number 2116
Impact Factor: 4.329 | **Quartile:** 1 | **Citations:** 1
DOI: 10.3390/polym12092116
- Plasticization- and aging-resistant membranes with venation-like architecture for efficient carbon capture** 2020
Yingzhen Wu Zheyuan Guo Hong Wu Kongying Zhu Leixin Yang Yanxiong Ren Yutao Liu Xingyu Wu Rui Zhao Niaz Ali Khan Nasir Mahmood Ahmad Mohammad Younas Zhongyi Jiang Yingzhen Wu Zheyuan Guo Hong Wu Kongying Zhu Leixin Yang Yanxiong Ren Yutao Liu Xingyu Wu Rui Zhao Niaz Ali

Synthesis and characterization of pre-activated thiolated chitosan nanoparticles for oral delivery of octreotide 2020

Sundus Maria Hafiz Shoaib Sarwar Muhammad Farhan Sohail Muhammad Imran Omer Salman Qureshi Abida Raza Nasir Mahmood Ahmad Ali Iqbal Gul Shahnaz
Journal of Drug Delivery Science and Technology, Volume 58, Article Number 101807
Impact Factor: 3.981 | **Quartile:** 2 | **Citations:** 35
DOI: <https://doi.org/10.1016/j.jddst.2020.101807>

Encapsulation of doxorubicin in magnetic-polymer hybrid colloidal particles of Eudragit E100 and their hyperthermia and drug release studies 2020

Sumera Khizar Nasir Mahmood Ahmad Naveed Ahmed Sadia Manzoor Abdelhamid Elaissari
Polymers Advanced Technologies, Volume 31, Issue 8, Pages 1732–1743
Impact Factor: 3.665 | **Quartile:** 2 | **Citations:** 20
DOI: <https://doi.org/10.1002/pat.4900>

Magnetic Colloidal Particles in Combinatorial Thin-Film Gradients for Magnetic Resonance Imaging and Hyperthermia 2020

Sumera Khizar Nasir Mahmood Ahmad Hassan Saleem Muhammad Asif Hamayun Sadia Manzoor Noureddine Lebaz Abdelhamid Elaissari
Advances in Polymer Technology, Volume 2020, Article ID 7163985, 18 pages
Impact Factor: 2.389 | **Quartile:** 3 | **Citations:** 10
DOI: <https://doi.org/10.1155/2020/7163985>

Bi-Polymer Electrospun Nanofibers Embedding Ag₃PO₄/P25 Composite for Efficient Photocatalytic Degradation and Anti-Microbial Activity 2020

Zunaira Habib Chang-Gu Lee Qilin Li Sher Jamal Khan Yousuf Jamal Xiaochuan Huang Hassan Javed Nasir Mahmood Ahmad
Catalysts, Volume 10, Issue 7, Article Number 784
Impact Factor: 4.146 | **Quartile:** 2 | **Citations:** 10
DOI: [10.3390/catal10070784](https://doi.org/10.3390/catal10070784)

Magnetic nanoparticles in microfluidic and sensing: From transport to detection 2020

Sumera Khizar Hamdi Ben Halima Nasir Mahmood Ahmad Nadia Zine Abdelhamid Errachid Abdelhamid Elaissari
Electrophoresis, Volume 41, Issue13-14, Pages 1206-1224
Impact Factor: 3.535 | **Quartile:** 2 | **Citations:** 54
DOI: <https://doi.org/10.1002/elps.201900377>

Surface Modification of TFC-PA RO Membrane by Grafting Hydrophilic pH Switchable Poly(Acrylic Acid) Brushes 2020

Muhammad Asad Abbas Shehla Mushtaq Waqas Akram Cheema Hazim Qiblawey Shenmin Zhu Yao Li Runnan Zhang Hong Wu Zhongyi Jiang Rehan Sadiq Muhammad Asad Abbas Shehla Mushtaq Hazim Qiblawey Shenmin Zhu Yao Li Runnan Zhang Hong Wu Zhongyi Jiang Rehan Sadiq Nasir Mahmood Ahmad
Advances in Polymer Technology, Volume 2020, Article ID 8281058, 12 pages
Impact Factor: 2.389 | **Quartile:** 3 | **Citations:** 27
DOI: <https://doi.org/10.1155/2020/8281058>

Development of highly permeable and selective mixed matrix membranes based on Pebax®1657 and NOTT-300 for CO₂ capture 2020

Nitasha Habib Zufishan Shamair Nain Tara Abdul-Sattar Nizami Faheem Hassan Akhtar Nasir Mahmood Ahmad Mazhar Amjad Gilani Muhammad Roil Bilad Asim Laeeq Khan
Separation and Purification Technology, Volume 234, Article Number 116101
Impact Factor: 7.312 | **Quartile:** 1 | **Citations:** 83
DOI: <https://doi.org/10.1016/j.seppur.2019.116101>

Isolation of Cellulose from Wheat Straw Using Alkaline Hydrogen Peroxide and Acidified Sodium Chlorite Treatments: Comparison of Yield and Properties 2020

Muhammad Bilal Khan Niazi Umair Qasim Farrukh Jamil Ala'a H. Al-Muhtaseb Sikander Rafiq Muzaffar Ali Nasir Mahmood Ahmad Sami Ullah Ahmad Mukhtar Sidra Saqib
Advances in Polymer Technology, Volume 2020, Article ID 9765950
Impact Factor: 2.389 | **Quartile:** 3 | **Citations:** 48
DOI: <https://doi.org/10.1155/2020/9765950>

Co-encapsulating CoFe₂O₄ and MTX for hyperthermia 2020

Nada Saleh Naveed Ahmed Muhammad Imran Asad Iqra Chaudhery Nasir Mahmood Ahmad

IET Nanobiotechnology , Volume 14, Issue 1, Pages 33-39

Impact Factor: 1.847 | **Quartile:** 4 | **Citations:** 3

DOI: DOI: 10.1049/iet-nbt.2019.0148

Design of enzyme decorated mucopermeating nanocarriers for eradication of H. pylori infection

2020

Hajra Zafar Maria Hassan Kiani Faisal Raza Aisha Rauf Iqra Chaudhery Nasir Mahmood Ahmad Sohail Akhtar Gul Shahnaz

Journal of Nanoparticle Research, Volume 22, Article Number: 4

Impact Factor: 2.253 | **Quartile:** 4 | **Citations:** 15

DOI: <https://doi.org/10.1007/s11051-019-4719-7>

Perylene based novel mixed matrix membranes with enhanced selective pure and mixed gases (CO₂, CH₄, and N₂) separation

2020

Sidra Saqib Sikander Rafiq Nawshad Muhammad Asim Laeeq Khan Ahmad Mukhtar Nurhayati Binti Mellon Zakaria Man Mian Hasnain Nawaz Farrukh Jamil Nasir Mahmood Ahmad

Journal of Natural Gas Science and Engineering, Volume 73, Article Number 103072

Impact Factor: 4.965 | **Quartile:** 1 | **Citations:** 27

DOI: <https://doi.org/10.1016/j.jngse.2019.103072>

Formulation and Evaluation of Novel Thiolated Intra Pocket Periodontal Composite Membrane of Doxycycline

2019

Asma Kanwal Ali Iqbal Rabia Arshad Sohail Akhtar Sobia Razzaq Nasir Mahmood Ahmad Hina Naz Gul Shahnaz

AAPS PharmSciTech , Volume: 20, Issue: 8, Article Number: 325

Impact Factor: 2.401 | **Quartile:** 2 | **Citations:** 16

DOI: DOI: 10.1208/s12249-019-1536-3

Removal of Hg(II) in aqueous solutions through physical and chemical adsorption principles

2019

NASIR MEHMOOD AHMED Mengdan Xia Zhixin Chen Yao Li Chuanhua Li Waqas A. Cheema Shenmin Zhu

RSC Advances , Volume 9 Issue 36, Pages 20941-20953

Impact Factor: 3.119 | **Quartile:** 2 | **Citations:** 97

DOI: 10.1039/c9ra01924c

Antibacterial behaviour of surface modified composite polyamide nanofiltration (NF) membrane by immobilizing Ag-doped TiO₂ nanoparticles

2019

Zunaira Habib Sher Jamal Khan Nasir Mehmood Ahmad Hafiz Muhammad Aamir Shahzad Imran Hashmi Yousuf Jamal

Environmental Technology , Pages 1-49

Impact Factor: 2.213 | **Quartile:** 3 | **Citations:** 29

DOI: 10.1080/09593330.2019.1617355

Direct chemical vapor deposition synthesis of large area single-layer brominated graphene

2019

Maria Hasan Wang Meiou Liu Yulian Sami Ullah Huy Q. Ta Liang Zhao Rafael G. Mendes Zahida P. Malik Nasir M. Ahmad Mark H. Rummeli Zhongfan Liu

RSC advances, Volume 9, Issue 24, Pages 13527-13532

Impact Factor: 3.119 | **Quartile:** 2 | **Citations:** 19

DOI: 10.1039/c9ra01152h

Low pressure chemical vapor deposition synthesis of large area hetero-doped mono- and few- layer graphene with nitrogen and oxygen species

2019

Maria Hasan Wang Meiou Liu Yulian Huy Q Ta Liang Zhao Rafael G Mendes Stefan Oswald Zareen Akhter Zahida P Malik Nasir M Ahmad Zhongfan Liu

Mark H Rummeli

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Impact Factor: 1.929 | **Quartile:** 3 | **Citations:** 11

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Polymer Concentration and Solvent Variation Correlation with the Morphology and Water Filtration Analysis of Polyether Sulfone Microfiltration Membrane

2019

Muhammad Azeem U. R. Alvi Muhammad Waqas Khalid Nasir M. Ahmad Muhammad Bilal Khan Niazi Muhammad Nabeel Anwar Mehwish Batool Waqas

Akram Cheema Sikandar Rafiq

Advances in Polymer Technology, Volume 2019, Article ID 8074626, 11 pages

Impact Factor: 1.539 | **Quartile:** 3 | **Citations:** 44

DOI: 10.1155/2019/8074626

Quaternized trimethyl functionalized chitosan based antifungal membranes for drinking water treatment

2019

Ayesha Tabriz Muhammad Azeem Ur Rehman Alvi Muhammad Bilal Khan Niazi Mehwish Batool Muhammad Faraz Bhatti Asim Laeeq Khan Asad U. Khan

Tahir Jamil NASIR MEHMOOD AHMED

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2025

Tahreem Tanweer Melissa Grant Nosheen Fatima Rana Sabah Javaid Nasir Mahmood Ahmad
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Citations: N/A

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Corrosion Resistance of Cupronickel Material exposed to Marine Environment of North Indian Ocean

2023

Syed Ali Sarfraz Shah MUNTAZIR ABBAS Zeeshan Riaz Nasir Mahmood Ahmad3 Syed Haider Mehdi Rizvi
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Book Chapters

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Editorial Activities

Polymers

Reviewed Papers for Journals

Impact Factor: 5

2022

Reviewed Papers for Journals

Impact Factor: 7.182

2020

Reviewed Papers for Journals

Impact Factor: 7.182

2020

Reviewed Papers for Journals

Impact Factor: 7.182

2020

Editor in Chief of Journal

Impact Factor: 1.539

2020

Reviewed Papers for Journals

Impact Factor: 7.182

2020

Reviewed Papers for Journals

Impact Factor: 7.182

2020

Reviewed Papers for Journals

Impact Factor: 7.123

2019

Intellectual Property

Copyrights

Patents

Reinforced Rubber Compounds Through Grafting and Vulcanizing Silica Hybrid Nanofillers for Automotive Applications

Status: Filed

2021

Chitosan Zero Valent Iron Oxide Nanoparticles-supported for Arsenic Removal: Synthesis, Optimization and Modeling Approach

Status: Filed

2021

Silver nanoparticles and PDAC coated antibacterial nanofabric

Status: Filed

2019

Anti-Bacterial Silver Nano particles Coated Surgical Blades

Status: Filed

2019

Silver Nanoparticles and PDAC Coated Anti- Bacterial Nano-Fabric

Status: Filed

2019

Industrial Designs

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