

Rashid Khan

Assistant Professor

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About

Dr. Rashid Khan is working as Assistant Professor in the Atta-Ur-Rahman School of Applied Biosciences. Dr. Rashid Khan has a PhD in Membrane Technology. Dr. Rashid Khan has published 19 research articles & conference papers having a citation count of 445, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Membrane Technology University of the Chinese Academy of Sciences , China	2012 - 2017
MSc in Biochemistry Kohat University of Science and Technology (KUST) , pakistan (Duplicate)	2009 - 2011
BSc in Science University of Peshawar , Pakistan	2006 - 2008

Experience

Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2022- Present
Post-Doc Fellow Tsinghua University , School of Environment	2017 - 2020

Research Articles

Rapid and cost-effective colorimetric detection of alkaloids in botanical extracts using a novel protocol with compressed tablets <i>Atteqa Safdar Sara Iftikhar Mouguissou Karim Rashid Khan Muhammad Qasim Hayat Tayyaba Afsar Ali Almajwal Houda Amor Suhail Razak</i> <i>Scientific Reports</i> , Volume:15, Issue:1, Article Number: 26332 Impact Factor: 3.900 Quartile: 1 DOI: https://doi.org/10.1038/s41598-025-11907-w	2025
CNFs@MnO2 nanofiber as anode material for improving the extracellular electron transfer of microbial fuel cells <i>Shuyan Yu Yuanfeng Liu Ying Zhao Rashid Khan Xiaoxin Cao Congju Li</i> <i>Catalysis Science and Technology</i> , Volume 14, Issue 2, Pages 464-477 Impact Factor: 5.000 Quartile: 2 Citations: 4 DOI: https://doi.org/10.1039/D3CY01510F	2024
A bismuth-based (III) hybrid perovskite as a highly air-stable, potential absorber with photoconductive response <i>Asma Khan Hongli Wen Shahid Iqbal Mujaddad-ur Rehman Mazloom Shah Muhammad Raheel Farhan Ahmad Khan Rashid Khan Randa A. Althobiti Eman Alzahrani Abd-ElAzim Farouk Foziah F. Al-Fawzan Eslam B. Elkaeed</i> <i>Optical Materials</i> , Volume:143, Article Number 114228 Impact Factor: 3.9 Quartile: 2 Citations: 3 DOI: 10.1016/j.optmat.2023.114228	2023
Techno-economic assessment of evacuated flat-plate solar collector system for industrial process heat <i>Zohaib Hassan Mariam Mahmood Naveed Ahmed Muhammad Hamza Saeed Rashid Khan Muhammad Mujtaba Abbas Md Abul Kalam Fares Almomani Emad Abdelsalam</i> <i>Energy Science & Engineering</i> , Volume:11, Issue:6, Page:2185-2201 Impact Factor: 3.8 Quartile: 3 Citations: 1 DOI: 10.1002/ese3.1447	2023

Pd-promoted heteropolyacid on mesoporous zirconia as a stable and bifunctional catalyst for oxidation of thiophenes <i>Latif Ullah Guoying Zhao Jian-Xin Ma Muhammad Usman Rashid Khan Niklas Hedin</i> <i>Fuel</i> , Volume 310, Part C, Article Number 122462 Impact Factor: 8.035 Quartile: 1 Citations: 9 DOI: https://doi.org/10.1016/j.fuel.2021.122462	2022
Electrospun PAN-based graphene/SnO₂ carbon nanofibers as anodic electrocatalysis microfiltration membrane for sulfamethoxazole degradation <i>Shuyan Yu Yifan Gao Rashid Khan Peng Liang Xiaoyuan Zhang Xia Huang</i> <i>Journal of Membrane Science</i> , Volume 614, Article Number 118368 Impact Factor: 8.742 Quartile: 1 Citations: 62 DOI: https://doi.org/10.1016/j.memsci.2020.118368	2020
Surface Grafting of Reverse Osmosis Membrane with Chlorhexidine Using Biopolymer Alginate Dialdehyde as a Facile Green Platform for in Situ Biofouling Control <i>Rashid Khan Han Wang Yufang Li Shuyan Yu M. Kamran Khan Kang Xiao Xia Huang</i> <i>ACS Applied Materials and Interfaces</i> , Volume 12, Issue 33, Pages 37515-37526 Impact Factor: 9.229 Quartile: 1 Citations: 20 DOI: https://doi.org/10.1021/acsami.0c06037	2020
Membrane autopsy deciphering keystone microorganisms stubborn against online NaOCl cleaning in a full-scale MBR <i>Han Wang Ziwei Liu Shuai Luo Rashid Khan Pan Dai Peng Liang Xiaoyuan Zhang Kang Xiao Xia Huang</i> <i>Water Research</i> , Volume 171, Article Number 115390 Impact Factor: 11.236 Quartile: 1 Citations: 35 DOI: https://doi.org/10.1016/j.watres.2019.115390	2020
Grafting D-amino acid onto MF polyamide nylon membrane for biofouling control using biopolymer alginate dialdehyde as a versatile platform <i>Rashid Khan M. Kamran Khan Han Wang Kang Xiao Xia Huang</i> <i>Separation and Purification Technology</i> , Volume 231, Article Number 115891 Impact Factor: 7.312 Quartile: 1 Citations: 16 DOI: https://doi.org/10.1016/j.seppur.2019.115891	2020
Effect of different activation processes on CaO/fly ash mixture for CO₂ Capture <i>Azra Nawar Adeel Javed Rashid Khan Majid Ali Adeel Waqas Naseem Iqbal</i> <i>Energy and Fuels</i> , Volume 34, Issue 2, Pages 2035-2044 Impact Factor: 3.605 Quartile: 2 Citations: 30 DOI: https://doi.org/10.1021/acs.energyfuels.9b03520	2020
Recycling waste-derived marble powder for CO₂ capture <i>Azra Nawar Ming Zhao Naseem Iqbal Rashid Khan Hosein Ghaedi Majid Ali</i> <i>Process Safety and Environmental Protection</i> , Volume 132, Pages 214-225 Impact Factor: 4.966 Quartile: 1 Citations: 48 DOI: https://doi.org/10.1016/j.psep.2019.10.005	2019
Alginate dialdehyde meets nylon membrane: A versatile platform for facile and green fabrication of membrane adsorbers <i>M. Kamran Khan Jianquan Luo Zhaoshuai Wang Rashid Khan Xiangrong Chen Yinhua Wan</i> <i>Journal of Materials Chemistry B</i> , Volume 6, Issue 11, Pages 1640-1649 Impact Factor: 5.047 Quartile: 1 Citations: 15 DOI: https://doi.org/10.1039/C7TB02966G	2018
Facile and green fabrication of cation exchange membrane adsorber with unprecedented adsorption capacity for protein purification <i>M. Kamran Khan Jianquan Luo Rashid Khan Jinxin Fan Yinhua Wan</i> <i>Journal of Chromatography A</i> , Volume 1521, Pages 19-26 Impact Factor: 3.716 Quartile: 1 Citations: 19 DOI: https://doi.org/10.1016/j.chroma.2017.09.031	2017
Fabrication of PES-based membranes with a high and stable desalination performance for membrane distillation <i>Li Xia Liu Fei Shen Bowu Zhang Haiqing Jiang Jingye Li Jianquan Luo Huan Huan Wu Rashid Khan Yinhua Wan</i> <i>RSC Advances</i> , Volume 6, Issue 109, Pages 107840-107850	2016

Impact Factor: 3.108 | **Quartile:** 2 | **Citations:** 21

DOI: <https://doi.org/10.1039/C6RA22193A>

Separation and concentration of ionic liquid aqueous solution by vacuum membrane distillation

2016

Huanhuan Wu Fei Shen Junfeng Wang Jianquan Luo Lixia Liu Rashid Khan Yinhua Wan

Journal of Membrane Science, Volume 518, Pages 216-228

Impact Factor: 6.035 | **Quartile:** 1 | **Citations:** 37

DOI: <https://doi.org/10.1016/j.memsci.2016.07.017>

Biofouling control in a membrane filtration system by a newly isolated novel quorum quenching bacterium, *Bacillus methylotrophicus* sp. WY

2016

Rashid Khan Fei Shen M. Kamran Khan Li Xia Liu Huan Huan Wu Jianquan Luo Yinhua Wan

RSC Advances, Volume 6, Issue 34, Pages 28895-28903

Impact Factor: 3.108 | **Quartile:** 2 | **Citations:** 27

DOI: DOI <https://doi.org/10.1039/C6RA01663D>

Separation and concentration of hydroxycinnamic acids in alkaline hydrolyzate from rice straw by nanofiltration

2015

Yun Li Benkun Qi Jianquan Luo Rashid Khan Yinhua Wan

Separation and Purification Technology, Volume 149, Pages 315-321

Impact Factor: 3.299 | **Quartile:** 1 | **Citations:** 27

DOI: <https://doi.org/10.1016/j.seppur.2015.06.006>

Improving lactic acid productivity from wheat straw hydrolysates by membrane integrated repeated batch fermentation under non-sterilized conditions

2014

Yuming Zhang Xiangrong Chen Benkun Qi Jianquan Luo Fei Shen Yi Su Rashid Khan Yinhua Wan

Bioresource Technology, Volume 163, Pages 160-166

Impact Factor: 4.494 | **Quartile:** 1 | **Citations:** 60

DOI: <https://doi.org/10.1016/j.biortech.2014.04.038>