

Fayaz Ali

Associate Professor

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About

Dr. Fayaz Ali is working as Associate Professor in the School of Natural Sciences. Dr. Fayaz Ali has a PhD in Physical Chemistry. Dr. Fayaz Ali has published 26 research articles & conference papers having a citation count of 1746, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Physical Chemistry King Abdul Aziz University , Saudi Arabia	2015 - 2018
MPhil in Physical Chemistry University of Peshawar , Pakistan	2012 - 2014
MSc in Physical Chemistry Islamia College University Peshawar , Pakistan	2009 - 2012

Experience

Associate Professor School of Natural Sciences	2025- Present
Assistant Professor/HoD Gomal University Sub-Campus , Gomal University Sub-Campus Tank	2022 - 2025
Lecturer Govt. Degree College Toru , Govt. Degree College Toru, Mardan	2021 - 2022
Postdoctoral Fellow Macau University of Science and Technology , Macau University of Science and Technology, Macau SAR China	2019 - 2021
Assistant Professor Abbottabad University of Science and Technology , Abbottabad University of Science and Technology Abbottabad	2018 - 2019

Research Articles

"Cost-effective chitosan-coated cellulosic supports, functionalized with zerovalent nanoparticles for sustainable hydrogen generation" <i>Nusrat Shaheen Wajahat Sajjad Saima Daud Tanzeela Fazal Asma Khan Fayaz Ali Amal M. Al-Mohaimed Wedad A. Al-onazi</i> <i>Materials Chemistry and Physics</i> , Volume 341 , Article Number 130890 Impact Factor: 4.300 Quartile: 2 DOI: https://doi.org/10.1016/j.matchemphys.2025.130890	2025
Band Gap Engineering of Binary and Cobalt-Doped PbS Thin Films Integrated by SILAR Method for Optoelectronic Potentials <i>Tanzeela Fazal Bushra Ismail Mazlom Shah Komal Rizwan Shahid Alam Sajad Mehmood Ammar Zidan Ali Bahadur Shahid Iqbal Abd-EL Aziem Farouk Salam Aloufi Fayaz Ali</i> <i>Microscopy Research and Technique</i> , Pages 1-8 Impact Factor: 2.000 Quartile: 2 DOI: https://doi.org/10.1002/jemt.24750	2024
Synthesis and coordination properties of a water-soluble material by cross-linking low molecular weight polyethyleneimine with armed cyclotrimeratrilene <i>Paolo Coghi Jerome PL Ng Vincent Kam Wai Wong Carmine Colucinni Yoke Mooi Ng Fayaz Ali</i> <i>Polymers</i> , Volume:13, Issue:23, Article Number 4133	2021

Impact Factor: 4.967 Quartile: 1 Citations: 2 DOI: https://doi.org/10.3390/polym13234133	
Recent progress in the development of potential drugs against SARS-CoV-2 <i>Jianmin Chen Fayaz Ali Imran Khan Yi Zhu Zhun</i> <i>Current Research in Pharmacology and Drug Discovery</i> , Volume 2, Article Number 100057 Impact Factor: N/A Citations: 8 DOI: https://doi.org/10.1016/j.crphar.2021.100057	2021
Eggshell membranes coated chitosan decorated with metal nanoparticles for the catalytic reduction of organic contaminates <i>Fayaz Ali Sher Bahadar Khan Khan Nusrat Shaheen Yi Zhun Zhu</i> <i>Carbohydrate Polymers</i> , Volume:259, Article Number 117681 Impact Factor: 10.700 Quartile: 1 Citations: 21 DOI: https://doi.org/10.1016/j.carbpol.2021.117681	2021
Metal nanoparticles supported on polyacrylamide water beads as catalyst for efficient generation of H₂ from NaBH₄ methanolysis <i>Sher Bahadar Khan Khan Fayaz Ali Abdullah M Asiri</i> <i>International Journal of Hydrogen Energy</i> , Volume:45, Issue:3, Page:1532-1540 Impact Factor: 5.816 Quartile: 2 Citations: 48 DOI: https://doi.org/10.1016/j.ijhydene.2019.11.042	2020
Lignocellulosic biomass supported metal nanoparticles for the catalytic reduction of organic pollutants <i>Kalsoom Akhter Fayaz Ali Saima Sohni Tahseen Kamal Abdullah M Asiri Esra M Bakhsh Sher Bahadar Khan</i> <i>Environmental Science and Pollution Research</i> , Volume:27, Issue:1, Page:823-836 Impact Factor: 4.223 Quartile: 2 Citations: 47 DOI: https://doi.org/10.1007/s11356-019-06908-y	2020
Chitosan-coated polyurethane sponge supported metal nanoparticles for catalytic reduction of organic pollutants <i>M Sharjeel Javed Khan Tahseen Kamal Fayaz Ali Abdullah M Asiri Sher Bahadar Khan Khan</i> <i>International Journal of Biological Macromolecules</i> , Volume:132, Page:772-783 Impact Factor: 5.162 Quartile: 1 Citations: 121 DOI: https://doi.org/10.1016/j.ijbiomac.2019.03.205	2019
Copper nanoparticles embedded chitosan for efficient detection and reduction of nitroaniline <i>Esra M Bakhsh Fayaz Ali Sher Bahadar Khan Khan Hadi M Marwani Ikram Y Danish Abdullah M Asiri</i> <i>International Journal of Biological Macromolecules</i> , Volume:131, Page:666-675 Impact Factor: 5.162 Quartile: 1 Citations: 65 DOI: https://doi.org/10.1016/j.ijbiomac.2019.03.095	2019
Chitosan nanocomposite fibers supported copper nanoparticles based perceptive sensor and active catalyst for nitrophenol in real water <i>Sher Bahadar Khan Fayaz Ali Kalsoom Akhter</i> <i>Carbohydrate Polymers</i> , Volume:207, Page:650-662 Impact Factor: 7.182 Quartile: 1 Citations: 48 DOI: https://doi.org/10.1016/j.carbpol.2018.12.032	2019
Chitosan coated cellulose cotton fibers as catalyst for the H₂ production from NaBH₄ methanolysis <i>Fayaz Ali Sher Bahadar Khan Abdullah M Asiri</i> <i>International Journal of Hydrogen Energy</i> , Volume:44, Issue:8, Page:4143-4155 Impact Factor: 4.939 Quartile: 2 Citations: 83 DOI: https://doi.org/10.1016/j.ijhydene.2018.12.158	2019
Synthesis and characterization of metal nanoparticles templated chitosan-SiO₂ catalyst for the reduction of nitrophenols and dyes <i>Fayaz Ali Sher Bahadar Khan Tahseen Kamal Khalid A Alamry Esra M Bakhsh Abdullah M Asiri Tariq R A Sobhai</i> <i>Carbohydrate Polymers</i> , Volume:192, Page:217-230 Impact Factor: 6.044 Quartile: 1 Citations: 121 DOI: 10.1016/j.carbpol.2018.03.029	2018
Carbamazepine degradation by UV and UV-assisted AOPs: Kinetics, mechanism and toxicity investigations <i>Javed Ali Khan Noor Samad Shah Murtaza Syed Hasan Mehmood Khan Fayaz Ali</i> <i>Process Safety and Environmental Protection</i> , Volume:117, Page:307-314	2018

- Impact Factor: 4.384 | Quartile: 1 | Citations: 121**
DOI: <https://doi.org/10.1016/j.psep.2018.05.004>
- Removal of Acid Yellow 17 Dye by Fenton Oxidation Process** 2018
Murtaza Syed Fayaz Ali Jehangir Khan Hassan Mehmood Khan
Zeitschrift fur Physikalische Chemie, Volume:232, Issue:4, Page:507-525
Impact Factor: 0.975 | Quartile: 4 | Citations: 55
DOI: [10.1515/zpch-2017-1072](https://doi.org/10.1515/zpch-2017-1072)
- Chitosan-titanium oxide fibers supported zero-valent nanoparticles: Highly efficient and easily retrievable catalyst for the removal of organic pollutants** 2018
Fayaz Ali Sher Bahadar Khan Khan Tahseen Kamal khalid A Alamry Abdullah M Asiri
Scientific Reports, Volume:8, Issue:1, Article Number: 6260
Impact Factor: 4.011 | Quartile: 1 | Citations: 155
DOI: <https://doi.org/10.1038/s41598-018-24311-4>
- Enhanced H₂ generation from NaBH₄ hydrolysis and methanolysis by cellulose micro-fibrous cottons as metal templated catalyst** 2018
Fayaz Ali Sher Bahadar Khan Khan Abdullah M Asiri
International Journal of Hydrogen Energy, Volume:43, Issue:13, Page:6539-6550
Impact Factor: 4.084 | Quartile: 2 | Citations: 66
DOI: <https://doi.org/10.1016/j.ijhydene.2018.02.008>
- Chitosan coated cotton cloth supported zero-valent nanoparticles: Simple but economically viable, efficient and easily retrievable catalysts** 2017
Fayaz Ali Sher Bahadar Khan Khan Khalid A Alamry Abdullah M Asiri Tariq R A Sobahi Tahseen Kamal
Scientific Reports, Volume:7, Issue:1, Article Number: 16957
Impact Factor: 4.122 | Quartile: 1 | Citations: 138
DOI: <https://doi.org/10.1038/s41598-017-16815-2>
- Bactericidal and catalytic performance of green nanocomposite based-on chitosan/carbon black fiber supported monometallic and bimetallic nanoparticles** 2017
Fayaz Ali Sher Bahadar Khan Tahseen Kamal Yasir Anwar Khalid A Alamry Abdullah M Asiri
Chemosphere, Volume:188, Page:588-598
Impact Factor: 4.427 | Quartile: 1 | Citations: 121
DOI: <https://doi.org/10.1016/j.chemosphere.2017.08.118>
- Anti-bacterial chitosan/zinc phthalocyanine fibers supported metallic and bimetallic nanoparticles for the removal of organic pollutants** 2017
Fayaz Ali Sher Bahadar Khan Khan Tahseen Kamal Yasir Anwar Khalid A Alamry Abdullah M Asiri
Carbohydrate Polymers, Volume:173, Page:676-689
Impact Factor: 5.158 | Quartile: 1 | Citations: 131
DOI: <https://doi.org/10.1016/j.carbpol.2017.05.074>
- CuO embedded chitosan spheres as antibacterial adsorbent for dyes** 2016
Sher Bahadar Khan Khan Fayaz Ali Tahseen Kamal Yasir Anwar Abdullah M Asiri Jongchul Seo
International Journal of Biological Macromolecules, Volume:88, Page:113-119
Impact Factor: 3.671 | Quartile: 1 | Citations: 151
DOI: <https://doi.org/10.1016/j.ijbiomac.2016.03.026>

Book Chapters

Boron Neutron Capture Therapy in Clinical Trials

2023

Fayaz Ali Yinghuai Zhu

In: *Frontiers In Boron-based Medicinal Chemistry*, Chapter 2, Pages 35-62

Citations: N/A

DOI: https://doi.org/10.1142/9789811268038_0002

Boron compounds for catalytic applications

2022

Tanzela Fazal Narayan S Hosmane Yinghuai Zhu Fayaz Ali

In: *Advances in Catalysis*, Volume 71, Chapter 4, Pages 169-199

Citations: 4

DOI: <https://doi.org/10.1016/bs.acat.2022.04.005>

Boron materials for energy applications

2022

Fayaz Ali

In: *Fundamentals and Applications of Boron Chemistry*, Chapter 4, Pages 203-289

Citations: 5

DOI: <https://doi.org/10.1016/B978-0-12-822127-3.00004-1>

Ion exchange materials and their applications

2018

Anish Khan Fayaz Ali Aftab Aslam Parwaz Khan Aleksandr Evhenovych Kolosov Abdullah M. Asiri

In: *Development and Prospective Applications of Nanoscience and Nanotechnology*, Chapter 5, Pages 192-218

Citations: N/A

DOI: [10.2174/9781681086453118020007](https://doi.org/10.2174/9781681086453118020007)