

Shahid Ali Khan

Assistant Professor
School of Natural Sciences

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About

Dr. Shahid Ali Khan is working as Assistant Professor in the School of Natural Sciences. Dr. Shahid Ali Khan has a PhD in Chemistry. Dr. Shahid Ali Khan has published 36 research articles & conference papers having a citation count of 604, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Chemistry King Abdul Aziz University , Saudi Arabia	2014 - 2017
MPhil in Chemistry University of Karachi , Pakistan	2011 - 2014
MSc in Organic Chemistry Kohat University of Science and Technology (KUST) , Pakistan	2007 - 2010
BSc in Chemistry Zoology Botany as major subject University of Peshawar , Pakistan	2005 - 2007

Experience

Assistant Professor School of Natural Sciences	2023- Present
Assistant Professor School of Natural Sciences	2022 - 2023
Assistant Professor University of Swabi , University of Swabi, Anbar, Swabi	2021 - 2022
Assistant Professor University of Swabi , University of Swabi, Anbar, Swabi	2020 - 2021
Assistant Professor University of Swabi , University of Swabi, Anbar, Swabi	2019 - 2021
Assistant Professor University of Swabi , University of Swabi, Anbar, Swabi	2019 - 2019
Assistant Professor University of Swabi , University of Swabi, Anbar, Swabi	2018 - 2019
Lecturer Post Graduate College Nowshera, KP, , Department of Chemistry, Post Graduate College Nowshera, KP, Pakistan	2010 - 2011

Research Articles

Green-synthesized silver nanoparticle-infused PVA hydrogels: A sustainable solution for skin repair Adeeb Shehzad Faiza Tariq Abdullah Khamis Al Saidi Khushbakht ali Khan Shahid Ali Khan Fanar Hamad Alshammari Mazhar Ul-Islam Results in Chemistry , Volume:17, Article Number 102584 Impact Factor: 4.200 Quartile: 2 DOI: 10.1016/j.rechem.2025.102584	2025
Unveiling the Potential of Protein-Based Sustainable Antibacterial Materials Iqra Ghouri Muslum Demir Shahid Ali Khan Muhammad Adil Mansoor Mudassir Iqbal Probiotics and Antimicrobial Proteins , Volume:17, Pages:737-762 Impact Factor: 4.400 Quartile: 1 DOI: https://doi.org/10.1007/s12602-024-10381-6	2025

<p>(3+3)-Annulation of 2-Mercaptobenzimidazoles With α-(Trifluoromethyl)Styrene Under Ultrasonic Irradiation</p> <p>Akbar Sohail Keyume Ablajan, Shahid Ali Khan</p> <p><i>European Journal of Organic Chemistry</i>, Volume 28, Issue 4, Article Number e202401175</p> <p>Impact Factor: 2.500 Quartile: 2</p> <p>DOI: 10.1002/ejoc.202401175</p>	2025
<p>Fabrication of chitosan supported copper nano catalyst for the hydrogen gas production through methanolysis and hydrolysis of NaBH₄</p> <p>Sajjad Akbar Muhammad Nasimullah Qureshi Shahid Ali Khan</p> <p><i>International Journal of Hydrogen Energy</i>, Volume:101, Page:313-322</p> <p>Impact Factor: 8.300 Quartile: 1</p> <p>DOI: 10.1016/j.ijhydene.2024.12.462</p>	2025
<p>Biocompatible, biodegradable, and anticancer alginate-quercetin ureteral stent via co-axial extrusion technique</p> <p>Shahid Ali Khan Wenjun Luo Jie Wang Haoyu Chen Zhiduan Cai Zhang Qiuyu Guosheng Tang Ouyang Jiang Guibin Xu</p> <p><i>International Journal of Biological Macromolecules</i>, Volume 287, Article Number 138545</p> <p>Impact Factor: 7.700 Quartile: 1</p> <p>DOI: 10.1016/j.ijbiomac.2024.138545</p>	2025
<p>Enhanced Electrocatalytic Performance of Novel d-Ti₃CN@CdSe Nanocomposite for Efficient Water Splitting: Achieving Low Overpotential and High Stability</p> <p>Maryam Bibi Muhammad asad Asghar Saba Ahmad Sajjad Haider Kamran Alam Shahid Ali Khan Muhammad Adil Mansoor Mudassir Iqbal</p> <p><i>Journal of the Electrochemical Society</i>, Volume: 171, Number: 10, Article Number: 106505</p> <p>Impact Factor: 3.1 Quartile: 2 Citations: 1</p> <p>DOI: 10.1149/1945-7111/ad88ac</p>	2024
<p>Antibacterial composite films of oxidized alginate-chitosan-ZnO anchored Cu nanoparticles for the degradation of organic pollutants</p> <p>Momina Islam Aiman Javed Zia Ur Rahman Youssef O. Al-Ghamdi Shahid Ali Khan</p> <p><i>International Journal of Biological Macromolecules</i>, Volume 278, Part 2, Article Number 134764</p> <p>Impact Factor: 7.700 Quartile: 1 Citations: 3</p> <p>DOI: 10.1016/j.ijbiomac.2024.134764</p>	2024
<p>Copper-catalyzed One-pot Synthesis of 1, 3, 4-Oxadiazol-2 (3H)-ones Using DMF as the Carbonyl Source</p> <p>Ping Jiang Qin Su Keyume Ablajan Shahid Ali Khan</p> <p><i>European Journal of Organic Chemistry</i>, Article Number: e202400308,</p> <p>Impact Factor: 2.500 Quartile: 2</p> <p>DOI: 10.1002/ejoc.202400308</p>	2024
<p>Silver oxide doped iron oxide/alginate nanocomposite coated cotton cloth for selective catalytic reduction of potassium ferricyanide</p> <p>Esraa M. Bakhsh Kalsoom Akhtar Sher Bahadar Khan Abdullah M. Asiri Tahseen Kamal Muhammad Bilal Shahid Ali Khan</p> <p><i>Chemosphere</i>, Volume 355, Article Number 141743</p> <p>Impact Factor: 8.100 Quartile: 1 Citations: 4</p> <p>DOI: 10.1016/j.chemosphere.2024.141743</p>	2024
<p>Magnetically separable core-shell nanoparticles for simultaneous metal adsorption and dye degradation</p> <p>Shanza Khan Waqar-Un Nisa Shahid Ali Khan Muhammad Adil Mansoor Sajjad Haider Salah Uddin Khan Xinhua Ouyang Mudassir Iqbal</p> <p><i>Optical Materials</i>, Volume 149, March 2024, 115017</p> <p>Impact Factor: 3.8 Quartile: 2 Citations: 2</p> <p>DOI: 10.1016/j.optmat.2024.115017</p>	2024
<p>Physicochemical characterization of microcrystalline cellulose derived from underutilized orange peel waste as a sustainable resource under biorefinery concept</p> <p>Saima Sohni Shela Begum Rokiah Hashim Sher Bahadar Khan Faryal Mazhar Fatima Syed Shahid Ali Khan</p> <p><i>Bioresource Technology Reports</i>, Volume 25, Article Number 101731</p> <p>Impact Factor: N/A Citations: 13</p> <p>DOI: 10.1016/j.biteb.2023.101731</p>	2024
<p>Spectroscopic characterization of eupalitin-3-O-β-D-galactopyranoside from Boerhavia procumbens: In vivo hepato-protective potential in rat model</p> <p>Abdul Wajid Khalil Zafar Iqbal Achyut Adhikari Hamayun Khan Umar Nishan Anwar Iqbal Javed Abbas Banghash Umar Mukhtar Tarar Ahmad Billa Shahid Ali</p>	2024

Synthesis of oxidized carboxymethyl cellulose-chitosan and its composite films with SiC and SiC@SiO₂ nanoparticles for methylene blue dye adsorption

2024

Aiman Javed Momina Islam Youssef O. Al-Ghamdi Mudassir Iqbal Marwah Aljohani Saima Sohni Syed Shoaib Ahmad Shah Shahid Ali Khan
International Journal of Biological Macromolecules, Volume 256, Part 1, Article Number 128363

Impact Factor: 7.7 | **Quartile:** 1 | **Citations:** 13

DOI: 10.1016/j.ijbiomac.2023.128363

Reactive oxygen species in biological systems: Pathways, associated diseases, and potential inhibitors

2023

—A review

Anees Ahmed Khalil Samir Awadallah Shahid Ali Khan Tareq Abu-Izneid Muhammad Kamran Hassan A. Hemeg Mohammad S. Mubarak Ahood Khalid Polra
Wilairatana Abdur Rauf

Food Science and Nutrition, Pages 1-19

Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 73

DOI: 10.1002/fsn3.3784

Adsorptive removal of heavy metals and organic dyes by sodium alginate/coffee waste composite hydrogel

2023

Haneen M. Alraddadi Taghreed M. Fagieh Esraa M. Bakhsh Kalsoom Akhtar Sher Bahadar Khan Shahid Ali Khan Effat A. Bahaidarah Tahani A. Homdi
International Journal of Biological Macromolecules, Volume 247, Article Number 125708

Impact Factor: 8.2 | **Quartile:** 1 | **Citations:** 39

DOI: 10.1016/j.ijbiomac.2023.125708

Lignocellulose biomatrix zero-valent cobalt nanoparticles: a dip-catalyst for organic pollutants degradation

2023

Shahid Ali Khan Saima Sohni kalsoom Akhtar Esraa M. Bakhsh Taufiq Nawaz Sher Bahadar Khan
Industrial Crops and Products, Volume 198, Article Number 116694

Impact Factor: 6.449 | **Quartile:** 1 | **Citations:** 22

DOI: 10.1016/j.indcrop.2023.116694

Green Synthesis of Silver Nanoparticles Using *Rhazya stricta* Decne Extracts and Their Anti-Microbial and Anti-Oxidant Activities

2023

Haji Rahman Abdur Rauf Shahid Ali Khan Zubair Ahmad Abdulrahman Alshammari Metab Alharbi Amir Alam Hafiz Ansar Rasul Suleria
Crystals, Volume: 13 Issue: 3, Article ID:398

Impact Factor: 2.670 | **Quartile:** 2 | **Citations:** 31

DOI: 10.3390/cryst13030398

Lignin nanoparticles-reduced graphene oxide based hydrogel: A novel strategy for environmental applications

2023

Saima Sohni Tajamul Hassan Sher Bahadar Khan kalsoom Akhtar Esraa M. Bakhsh Rokiah Hashim Hafiz Nidaullah Momin Khan Shahid Ali Khan
International Journal of Biological Macromolecules, ELSEVIER, RADARWEG 29, AMSTERDAM, Netherlands, 1043 NX

Impact Factor: 8.025 | **Quartile:** 1 | **Citations:** 26

DOI: 10.1016/j.ijbiomac.2022.11.200

Co₃O₄/NiO nanocomposite as a thermocatalytic and photocatalytic material for the degradation of malachite green dye

2023

Waseeq Ur Rehman Muhammad Tayyab Noor Khattak Abdu Saeed Kausar Shaheen Zarbad Shah Esraa M. Bakhsh Taghreed M. Fagieh Sher Bahadar Khan Shahid Ali Khan Shah Hussain Haneen M. Alraddadi Kalsoom Akhtar
Journal of Materials Science: Materials in Electronics, Volume 34, Article Number: 15

Impact Factor: 2.779 | **Quartile:** 2

DOI: 1007/s10854-022-09428-7

A bioresource catalyst system of alginate-starch-activated carbon microsphere templated Cu nanoparticles: Potentials in nitroarenes hydrogenation and dyes discoloration

2022

Kaleem Ullah Salam Khan Musa Khan Zia Ur Rahman Youssef O. Al-Ghamdi Azhar Mahmood Shah Hussain Sher Bahadar Khan Shahid Ali Khan
International Journal of Biological Macromolecules, Volume 222, Part A, Pages 887-901

Impact Factor: 8.025 | **Quartile:** 1 | **Citations:** 24

DOI: 10.1016/j.ijbiomac.2022.09.226

Synthesis, characterization, and bioactivity evaluation of PES-NiSiO₂ nanocomposite membranes cum stabilization of Ag NPs for nitrophenols hydrogenation and dyes discoloration studies

2022

Shahid Ali Khan Saba Akram Anum Rashid Zulfiqar Ahmad Rehan Sher Bahadar Khan Enrico Drioli
Sustainable Chemistry and Pharmacy, Volume 30, Article Number 100887

Impact Factor: 5.464 | **Quartile:** 2 | **Citations:** 3

DOI: 10.1016/j.scp.2022.100887

Polymers blended peanuts activated carbon composite hydrogels fabricated Ag NPs as dip-catalyst for industrial dyes discoloration in aqueous medium

2022

Youssef O. Al-Ghamdi Ghufan Saeed Mubarak Ali Kifayat Ali Kaleem Ullah Noureen Khan Mudassir Iqbal Abdullah Y.A. Alzahrani Shahid Ali Khan
Industrial Crops and Products, Volume 188, Part A, Article Number 115588

Impact Factor: 6.449 | **Quartile:** 1 | **Citations:** 9

DOI: 10.1016/j.indcrop.2022.115588

Copper biosorption over green silver nanocomposite using artificial intelligence and statistical physics formalism

2022

Fariha Idrees Fakhra Sibtain M. Junaid Dar Fahad Hassan Shah Mahboob Alam Iqbal Hussain Song Ja Kim Jawaria Idrees Shahid Ali Khan Saad Salman
Journal of Cleaner Production, Volume 374, Article Number 133991

Impact Factor: 11.1 | **Quartile:** 1 | **Citations:** 7

DOI: 10.1016/j.jclepro.2022.133991

Anchoring Zero-Valent Cu and Ni Nanoparticles on Carboxymethyl Cellulose-Polystyrene-Block Polyisoprene-Block Polystyrene Composite Films for Nitrophenol Reduction and Dyes Degradation

2022

Noureen Khan Bibi Shahida Shahid Ali Khan Zubair Ahmad Saeeduddin Ziviqar Sheikh Esraa M. Bakhsh Haneen M. Alraddadi Taghreed M. Fagieh Sher Bahadar Khan

Journal of Polymers and the Environment, Pages 1-13

Impact Factor: 4.705 | **Quartile:** 1 | **Citations:** 13

DOI: 10.1007/s10924-022-02579-y

Enhanced catalytic reduction/degradation of organic pollutants and antimicrobial activity with metallic nanoparticles immobilized on copolymer modified with NaY zeolite films

2022

Musarat Riaz Noureen Khan Shahid Ali Khan Saeeduddin Zubair Ahmad Mohsin Ali Khan Mudassir Iqbal Hassan A. Hemeg Esraa M. Bakhsh Sher Bahadar Khan

Journal of Molecular Liquids, Volume 359, Article Number 119246

Impact Factor: 6.0 | **Quartile:** 1 | **Citations:** 28

DOI: 10.1016/j.molliq.2022.119246

Sequestration of Anionic and Cationic Dyes through Thermally Activated Slate and Their Kinetics and Thermodynamic Characteristics

2022

Shah Hussain Usman Ghani Shahid Ali Khan Vineet Tirth Ali Algahtani Aiyeshah Alhodaib Asad Ali Fozia Sultana Muhammad Mushtaq Abid Zaman
ACS Omega, Volume 7, Issue 14, Pages 12212-12221

Impact Factor: 3.512 | **Quartile:** 2 | **Citations:** 2

DOI: 10.1021/acsomega.2c00611

Versatility of Hydrogels: From Synthetic Strategies, Classification, and Properties to Biomedical Applications

2022

Saad Salman Zubair Ahmad Shahid Ali Khan Abdul Amin Zia Ur Rahman Youssef O. Al-Ghamdi Kalsoom Akhtar Esraa M. Bakhsh Sher Bahadar Khan
Gels, Volume 8(3), Article Number 16

Impact Factor: 4.702 | **Quartile:** 1 | **Citations:** 211

DOI: 10.3390/gels8030167

Revealing the Effect of MnO₂, Activated Carbon and MnO₂/Activated Carbon on Chitosan Polymer Host Fabricated Co NPs: Antibacterial Performance and Degradation of Organic Compounds

2022

Hani S. H. Mohammed Ali Sumiya Yasir Anwar Youssef O. Al-Ghamdi Muhammad Fakieh Shahid Ali Khan
Polymer, Volume 14(3), Article Number 627

Impact Factor: 4.430 | **Quartile:** 1 | **Citations:** 15

DOI: 10.3390/polym14030627

Book Chapters

Miscellaneous applications of hydrogels <i>Humera Bibi Waseeq Ur Rehman Shah Hussain Kausar Shaheen Zarbad Shah Muhammad Asim Shahid Ali Khan</i> In: <i>Book on Hydrogels Antimicrobial Characteristics, Tissue Engineering, Drug Delivery Vehicle</i> , Chapter 1, Pages 1-15 Citations: N/A DOI: 10.1515/9783111334080-001	2024
Hydrogels for personal care products <i>Zubair Ahmad Tahseen Arshad Hassan Zeb Shahid Ali Khan</i> In: <i>Book on Hydrogels Antimicrobial Characteristics, Tissue Engineering, Drug Delivery Vehicle</i> , Chapter 7, Pages 103-117 Citations: N/A DOI: 10.1515/9783111334080-007	2024
Hydrogels for kidney carcinoma <i>Shahid Ali Khan Zubair Ahmad Zhiduan Cai Guibin Xu</i> In: <i>Book on Hydrogels Antimicrobial Characteristics, Tissue Engineering, Drug Delivery Vehicle</i> , Chapter 8, Pages 119-132 Citations: N/A DOI: 10.1515/9783111334080-008	2024
Nanoengineering hydrogels with improved antimicrobial characteristics <i>Tahseen Arshad Muhammad Pervaiz Zhiduan Cai Guibin Xu Shahid Ali Khan</i> In: <i>Book on Hydrogels Antimicrobial Characteristics, Tissue Engineering, Drug Delivery Vehicle</i> , Chapter 3, Pages 35-47 Citations: N/A DOI: 10.1515/9783111334080-003	2024

Editorial Activities

Mechanics of Cells and Tissues in Diseases Edited Journal Issue / Proceeding / Book Impact Factor: N/A	2024
Journal of Materials Science: Materials in Electronics Reviewed Papers for Journals Impact Factor: 2.779	2023
Chemical Papers Reviewed Papers for Journals Impact Factor: 2.164	2023
Ecotoxicology and Environmental Safety Reviewed Papers for Journals Impact Factor: 7.129	2023
International Journal of Environmental Science and Technology Reviewed Papers for Journals Impact Factor: 3.519	2023
Polymers Reviewed Papers for Journals Impact Factor: 4.967	2022
Gels Reviewed Papers for Journals Impact Factor: 4.432	2022
Journal of Materials Science: Materials in Electronics Reviewed Papers for Journals Impact Factor: 2.779	2022
Journal of Materials Science: Materials in Electronics Reviewed Papers for Journals Impact Factor: 2.779	2022
Corporate Social Responsibility and Environmental Management Reviewed Papers for Journals Impact Factor: 8.464	2022