



Dr. ZIA UL HAQ KHAN
(GOLD MEDALIST)
(HEC Approved PhD Supervisor)

Address 1: Department of Chemistry, **Address 2:** Village Musa Khel Post Office
COMSATS University Islamabad, Islamabad Ismail Khel, Tehsil and District Bannu, Khyber
Campus, Park Road, Chak Shahzad, Pakhtunkhwa Pakistan
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Published Papers:

Citations:

H-index:

I10-index

900

133

7012

53

103

Research interests.

Material Chemistry, Material synthesis, Organic Chemistry, Medicinal Chemistry, Natural Products chemistry, Organic synthesis, Electro-Organic Synthesis, Cyclic Voltammetry analysis, Materials synthesis, green Synthesis of NPs, Nanocomposite materials, Catalyst, Photocatalysis.

Acquired skills.

UV, SPECTROPHOTOMETER, SELECTIVE, ELECTRODE METER, PH, METER, FLAME, PHOTOMETER, AUTOCLAVES, MICROSCOPE, INCUBATOR AND ALL THE MICROBIO LOGICAL EQUIPMENT IN THE LABORATORY, ELECTROCHEMICAL TECHNIQUES

ACADEMIC QUALIFICATIONS

PhD Organic Chemistry/ Material Chemistry

Thesis topic: “*Application of Electrochemistry in Medicine syntheses*”

Beijing University of Chemical Technology (BUCT), China

2012-2015

M. Phil Chemistry (18 years)

Thesis topic: “*Phytochemical and Biological studies on the constituents of Cirsium arvense*” Gomal University D I Khyber Pakhtunkhwa Pakistan

2008-2010

M.Sc. Chemistry (16 years)

Gomal University DIK Khyber Pakhtunkhwa Pakistan

2004-2006

B.Sc. Biological (14 years)

Gomal University D I Khyber Pakhtunkhwa Pakistan

2002-2004

F.Sc. Pre-Medical (12 years)

Board of Intermediate and Secondary Education Bannu (BISE)

2001-2002

SSC Science (10 years)

Board of Intermediate and Secondary Education Bannu (BISE)

1999-2000

ACADEMICACHIEVEMENT

1. Received **Gold Medal in Chemistry**, from Pakistan Chemical Society (**2023**).
2. Received **Dr. Atta Ur Rahman Gold Medal in Chemistry**, Pakistan Academy of Sciences (**2022**).
3. Best performance/outstanding certificate/Letter COMSATS University Islamabad Vehari, Campus **2022-2023**
4. Best performance/outstanding certificate/Letter COMSATS University Islamabad Vehari, Campus **2021-2022**
5. Wastewater treatment training under TWAS-**2017**, Beijing
6. Best student award session **2012-2015**, BUCT, China
7. Merit Scholarship session **2004-2006**
8. Position Holder (Organic Chemistry) **2004 2006**
9. China Government Scholarships **2012-2015**

EXPERIENCE

1. Associate Professor in the Department of Chemistry COMSATS CUI Islamabad, Pakistan, **June 1, 2023, To Date.**
2. Associate Professor in the Department of Environmental Science COMSATS CUI Vehari Pakistan, **May 22, 2023, To May 31, 2023.**
3. Assistant Professor in the Department of Environmental Science COMSATS CUI Vehari Pakistan, **February 6, 2017, to May 21, 2023.**
4. Assistant professor, in university of science and Technology Bannu Pakistan, **28-07-2015 to 27-07-2016**
5. Lecture in as Government Degree College Bannu No: 2 Pakistan, September **2010 to September 2012.**
6. Lecture and Demonstrator in Government Post Graduate College Bannu Pakistan, **2007-2008 (one year).**

Projects Approved and Submitted

1. Electrochemical synthesis of asymmetric heterocyclic organic compounds and their biological investigation Higher Education Commission Pakistan, NRPU, **3.378M (Completed)**
2. Synthesis of Pyrimidines derivatives through electrochemical process Higher Education Commission Pakistan, SRGP, **(Completed).**
3. Green synthesis and characterizations of Zero-Valant nanoparticles and study of their Potential applications (submitted Pak- Turkey collaboration 4.4 M)

CONFERENCE PARTICIPATION

1. Invited speaker 21st International, 1st Inter-Islamic and 33rd National Chemistry Conference **(23-25 Oct 2023)**. Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan
2. Keynote speaker, One Day Symposium on Synthetic and Applied Chemistry in, Department of chemistry, Education university Vehari campus, **July, 20222**
3. **Keynote speaker**, One Day Symposium on Synthetic and Applied Chemistry in, Department of Chemistry, Education university Vehari campus, **April, 2019**
4. **Keynote speaker**, 1st National conference on recent innovations in Medicinal chemistry Biochemistry University of science and technology Bannu **(February 20-22, 2018)**
5. 1st National workshop on Computational Chemistry and Drug Designing **19-20, December, 2, 2018** University of science and technology Bannu.
6. Sustainable Development through Biodiversity Conservation and Ecotourism **11-13, December, 2017.**

COMPUTER SKILLS

1. MS Word
2. MS excels.
3. MS power point
4. Chem Draw
5. Chem Sketch
6. Origin
7. Internet searching
8. Graph pad Prism 5
9. ECOSAR

REFERENCES Dr.

Pingyu Wan

(Research supervisor)

Professor in

Chemistry

Beijing University of Chemical China

Technology, China pywan@mail.buct.edu.cn,

Dr. Yong Mei Chen

Professor in Chemistry

Beijing University of Chemical China

Technology,

China chenym@mail.buct.edu.cn,

Dr. Nawshad Muhammad

Professor, Khyber University Peshawar,

KPK Pakistan, nawshadchemist@yahoo.com

**1. TEXT BOOK: EASY APPROACH TO ORGANIC CHEMISTRY AND
REACTION MECHANISM** (*Near to completion*)

REVIEWER OF SCIENTIFIC JOURNALS

1. Journal of Hazardous materials (Elsevier)
2. Progress in organic chemistry (ACS)
3. Resource-Efficient Technologies (Elsevier)
4. Industrial Crops and Products (Elsevier)
5. Journal of Environmental Quality (Elsevier)
6. Journal of alloy and Compounds (Elsevier)
7. Journal of environmental research pollution (springer)
8. Journal of photochemistry photobiology B: biology (Elsevier)
9. Current pharmaceutical Biotechnology (Bentham Science)
10. Journal of molecular structure (Elsevier)
11. Journal of Advanced Research (Elsevier)
12. Green Processing and Synthesis
13. Journal of Advanced Research (Elsevier)
14. Biocatalysts and Agricultural Biotechnology (Elsevier)
15. Applied Organometallic Chemistry (John Wiley & Sons)
16. Advances in Natural Sciences: Nano-science and Nanotechnology
17. Materials Chemistry and Physics
18. Journal: Materials Science & Engineering C (Elsevier)
19. Scientific Reports
20. Environmental Toxicology and Pharmacology
21. Journal of Cluster Science (Elsevier)
22. Journal of trace elements in medicine and biology
23. Journal of surface and interfaces (Elsevier)
24. Journal of materials and Design (Elsevier)
25. Journal of Molecular Liquids (Elsevier)

Thesis and Synopsis elevated of M. Phil/PhD Scholars

1. Evaluation of Thesis of **Ms. Maryam Zaman**, M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2024**
2. Evaluation of Thesis of **Mr. Irshad Ullah**, M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2024**
3. Evaluation of Thesis of **Ms. Mamoon Nargis**, M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2024**
4. Evaluation of Thesis of **Mr. Muhammad Ilyas**, M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2024**
5. Evaluation of Thesis of **Mr. Umair Khattab**, M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2024**
6. Evaluation of Thesis of **Mr. Muhammad Aqib**, M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2024**
7. Evaluation of Thesis of **Muhammad Asif Iqbal**, M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2024**
8. Evaluation of Thesis of **Mr. Muhammad Ilyas**, M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2024**
9. Evaluation of Thesis of **Ms. Iqra Asma Ul Husna**, M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2024**
10. Evaluation of Thesis of **Mr. Zahid Khan** M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2024**
11. Evaluation of Thesis of **Mr. Muhammad Nabeel**, M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2024**
12. Evaluation of Thesis of **Ayesha Pervez** Department of Chemistry Education Lahore Vehari Campus, Vehari **2023**
13. Evaluation of Thesis of **Mr. Muhammad Imran Sheikh** M. Phil Scholar of Chemistry, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2023**
14. Evaluation of Thesis of **Mr. Mr. Khalil Ur Rehman, Ph. D Scholar of Chemistry**, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2023**
15. Evaluation of Thesis of **Mis: Faima Ali** M. Phil. Student, Department of Chemistry University of Science and Technology Bannu KP Pakistan, **2023**
16. Evaluation of Thesis of **Mr. Luqman Shah** M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2023**
17. Evaluation of Thesis of **Misbah Ayub** M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2023**
18. Evaluation of Thesis of **Muhammad Umar Farooq**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2023**
19. Evaluation of Thesis of **Ms. Yasmeen Saeed**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2023**
20. Evaluation of Thesis of **Huma Bashir**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2022**
21. Evaluation of Thesis of **Ms. Saira Javid**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2022**
22. Evaluation of Thesis of **Rabia Gul**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2022**
23. Evaluation of Thesis of **Mr. Jamshed Burki**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2021**
24. Evaluation of Thesis of **Mr. Hafeez Gul Khan**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2021**
25. Evaluation of Thesis of **Ms. Rabia Gul**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2021**
26. Evaluation of Thesis of **Ms. Zubeida Jabeen**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2021**
27. Evaluation of Thesis of **Mr. Yasir Usmani**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2021**

28. Evaluation of Thesis of **Ms. Syeda Amira Batool**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2021**
29. Evaluation of Thesis of **Ms Sadeedah Zahra Qureshi**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2021**
30. Evaluation of Thesis of **Mr Muhammad Adman Khan**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2020**
31. Evaluation of Thesis of **Mr. Shaukat Zaman**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2020**
32. Evaluation of Thesis of **Mr. Riffat Ullah**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2019**
33. Evaluation of Thesis of **Mr. Dost Muhammad**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2019**
34. Evaluation of Thesis of **Miss Bussra**, M. Phil. Student, Institute of Chemical Sciences (ICS), Gomal University, Dera Ismail Khan, **2019**

List of Publications

<https://scholar.google.com/citations?user=ucH7QxkAAAAJ&hl=en>

2025

1. Fida Ullah , **Zia Ul Haq Khan*** , Sana Sabahat, Muhammad Aftab, Jingyu Sun, Noor Samad Shah Abdur Rahim, Mahmood M.S. Abdullah , Muhammad Imran. Synergistic degradation of toxic azo dyes using Mn-CuO@Biochar: An efficient adsorptive and photocatalytic approach for wastewater treatment. **Chemical Engineering Science**, 302, Part B,120844, 2025
<https://www.sciencedirect.com/science/article/pii/S0009250924011448?via%3Dihub>, **IF=4.3**
2. **Zia Ul Haq Khan***, Sana Sabahat, Noor Samad Shah, Huma Ajab, Jibran Iqbal, and Fida Ullah. Electrochemical advanced oxidation processes as a feasible approach towards treatment of pesticides contaminated water and environmental sustainability: A review. **Journal of water Process Engineering**, 70, 107083, 2025,
<https://www.sciencedirect.com/science/article/pii/S2214714425001552>, **IF=6.7**
3. Robina Akhtar, Asim Yaqub, **Zia Ul Haq Khan**, Ali Turab Jafry and Huma Ajab . An octahedral metal oxide nanoparticle-based dual-signal sensing platform for simultaneous detection of histidine and lysine in human blood plasma and urine, *Nanoscale Adv.*, 2025,7, 1872-1884,
<https://pubs.rsc.org/en/content/articlelanding/2025/na/d4na00932k>, **IF=4.6**
4. Muhammad Idrees , **Zia Ul Haq Khan*** , Sana Sabahat , Jingyu Sun , Noor Samad Shah , Jibran Iqbal . Advancements in photocatalytic systems for ciprofloxacin degradation, efficiency, mechanisms, and environmental considerations. *Journal of Molecular Liquids* 424 127115, 2025,
<https://www.sciencedirect.com/science/article/pii/S0167732225002818?via%3Dihub>, **IF=5.3**
5. Marium Zahid, **Zia Ul Haq Khan***, Jingyu Sun, Nawshad Muhammad, Sana Sabahat, Noor Samad Shah, Jibran Iqbal. Biochar-Derived Photocatalysts for Pharmaceutical Waste Removal, A Sustainable Approach to Water Purification. *Applied Surface Science Advances*, 26, 100721 2025. <https://www.sciencedirect.com/science/article/pii/S2666523925000297>, **IF=8.7**
6. Ruijun Chu, **Zia Ul Haq Khan**, Yuquan Zhu, Rufang Zhao, Wenzhong Wu, Jingyu Sun. Theoretical simulation degradation of bromoxynil by ozonation in liquid phase: Mechanism pathways, kinetics, and ecotoxicity *International Journal of Quantum Chemistry* , 125 (7), e70041, 2025, <https://onlinelibrary.wiley.com/doi/10.1002/qua.70041?af=R>, **IF=2.5**
7. Muhammad Tayyab, Abdur Rahim , Muhammad Tariq , **Zia Ul Haq Khan** , Sana Sabahat, Jibran Iqbal, Dalia Fouad, Abdul Qadeer, Fareed S. Ataya, Lubna Sherin. Revolutionizing electrochemical sensing: Ultra-sensitive non-enzymatic detection of 4-aminophenol with a novel Cu-PANI nanocomposite. *Journal of Water Process Engineering*,75, 10927, 2025 ,
<https://www.sciencedirect.com/science/article/pii/S2214714425009997>, **IF=6.7**
8. Rabiya Kousar, **Zia Ul Haq Khan***, Jingyu Sun, Sana Sabahat, Noor Samad Shah, Jibran Iqbal, Mahmood M. S. Abdullah, Rabia Naz, and Zia Ullah Khan. Catalytic removal of synozol blue dye from aqueous solution through green synthesized Iron NPs with H₂O₂: with addition of ECOSAR and Biological investigation. *Chemical Engineering Science*. 317, 122012, 2025
<https://www.sciencedirect.com/science/article/pii/S0009250925008358?dgcid> **IF=4.3**
9. Maryam Zahid, **Zia Ul Haq Khan***, Sana Sabahat, Mahmood M. S. Abdullah, Noor Samad Shah, Nawshad Muhammad. Photocatalytic Degradation of Norfloxacin Using Biochar Supported nZVMn/TiO₂ Nanocomposite: Synthesis, Characterization, and Performance Evaluation. *Journal of surface interfaces*,72, 107034, 2025, **IF=6.3**
10. Malaika Arshad, **Zia Ul Haq Khan***, Sana Sabahat, Noor Samad Shah, Huma Ajab and Jibran Iqbal .A Comprehensive Review MOFs and Their Derivatives as High-Performance Supercapacitor Electrodes. *Chinese Journal of Structural Chemistry*.
<https://www.sciencedirect.com/science/article/pii/S025458612500166>, 100676, 2005, **IF=10.3**
- 11.

2024

12. Jibran Iqbal, Noor S. Shah, Javed A Khan; Kifayaullah Khan; Muhammad Wakeel; Heba Taha M. Abdelghani; **Zia Ul Haq Khan**; Grzegorz Boczkaj, Hydroxyl and sulfate radical- based degradation of ciprofloxacin using UV-C and/or Fe²⁺-catalyzed peroxymonosulfate: Effects of process parameters and toxicity evaluation, *Journal of Photochemistry & Photobiology, A: Chemistry*, **447**, 115246, 2024
<https://www.sciencedirect.com/science/article/abs/pii/S1010603023007116>, **IF=4.3**
13. Narjis Zahra, Sana Sabahat, **Zia Ul Haq Khan**, Farhat Saira ,Rahman Saleem, Abdur Rahim Fabrication of Nickel Ferrite@MWCNTs for Super-Capacitor Applications. *J Appl Electrochem* **54**, 1969–1981 (2024).<https://link.springer.com/article/10.1007/s10800-024-02088-x>, **IF=2.29**
14. Muhammad Faizan, Afaq Ullah Khan, Kamran Tahir, Zainab M. Almarhoon , **Zia Ul Haq Khan** , Nora Awad Alkudaisi, Khulood Fahad Alabbosh , Abdulaziz A Alanazi , Sameerah I. Al-Saeedi , Magdi E.A. Zaki . Platinum and gold activated ZnFe₂O₄ nanomaterials for boosting photocatalytic inhibition of bacteria under visible light. *Material Today Communications* **38**, 108383. 2024
<https://www.sciencedirect.com/science/article/abs/pii/S2352492824003635>, **IF=3.8**
15. Rabiya Kousar , **Zia Ul Haq Khan*** , Sana Sabahat , Jingyu Sun , Nawshad Muhammad , Noor Samad Shah , Jibran Iqbal, Syed Khasim Mohamed Abdel Salam. Synergetic comparative study: Photocatalytic and biological investigations of green-synthesized metal oxide nanoparticles *Nano-Structures & Nano-Objects* **38** 101184 2024.
<https://www.sciencedirect.com/science/article/abs/pii/S2352507X24000957>,
16. Mehar Fatima , Sadullah Mir , Mohsin Ali , Safia Hassan **Zia Ul Haq Khan** Kashif Waqar Synthesis and applications of chitosan derivatives in food preservation-A review *European Polymer Journal* **216** 113242 2024
<https://www.sciencedirect.com/science/article/abs/pii/S0014305724005032>, **IF=6**
17. Fazila Nazir , Areeba Razza , Sana Sabahat Tariq Sajjad , Abdur Rahim **Zia Ul Haq Khan**. Fabrication of CdS NRs /MoS₂@g-C₃N₄ nanotubes for efficient photoelectrochemical hydrogen production. *Materials Chemistry and Physics* **323** 129668 2024
<https://www.sciencedirect.com/science/article/abs/pii/S0254058424007934>, **IF=4.3**
18. Sana Sabahat, Yumna Nazish, Farhat Saira, Iqra Tariq, **Zia ul Haq Khan**, Rahman Shah Zaib Saleem, Mahmood M.S. Abdullah, Yongmei Chen. Fabrication of Supported and Unsupported Gold Nanorods for Non-Enzymatic Glucose Sensing and Study of their Growth Kinetics. *Journal: ACS Omega*, **ACS Omega**, 2024, **9**, **31**, 33616–33628
<https://pubs.acs.org/doi/10.1021/acsomega.4c01313>, **IF=3.7**
19. Attiqah Ahmad, **Zia Ul Haq Khan**, Sana Sabahat, Jingyu Sun, Noor Samad Shah, Zia Ullah Khan, Nawshad Muhammad, Sadullah Mir, Abdur Rahim¹, Muhammad Nadeem⁶, Syed Khasim. Innovations in Metal Oxides-Biochar Nanoparticles for Dye Removal. *Nano-Structures & Nano-Objects* **39**, , 101269, 2024
<https://www.sciencedirect.com/science/article/pii/S2352507X2400180X>,
20. Jiawei Cao , **Zia Ul Haq Khan** , Rufang Zhao , Yuquan Zhu , Aobo Gao , Wenzhong Wu , Jingyu Sun. Theoretical studies into the degradation mechanisms and kinetics of gemfibrozil mediated by hydroxyl and sulfate radicals in the aqueous phase and ecotoxicity evaluation. *Journal of Molecular Structure*, **1318**, Part 2 139344 2024
<https://www.sciencedirect.com/science/article/pii/S002228602401860X?via%3Dihub> **IF=4**
21. Salman Latif, **Zia Ul Haq Khan***. Electrochemical investigation of Pd-Au/BC nanocomposite-biochar and their photocatalytic and energy storage applications. *Engineering Science and Technology, an International Journal* **54** 101714 2024
<https://www.sciencedirect.com/science/article/pii/S2215098624001009>, **IF=5.1**

22. Muqadas Rafiq , Jalal Ahmed , HuriyyahA. Alturaifi , NasserS. Awwad , HalaA. Ibrahim , Sad ullah Mir , Aneela Maalik , Sana Sabahat , Safia Hassan , **Zia Ul Haq Khan**. Recent developments in the biomedical and anticancer applications of chitosan derivatives. *International Journal of Biological Macromolecules* 283, , 137601 2024 <https://www.sciencedirect.com/science/article/pii/S0141813024084113>, **IF=7.7**
23. Sana Sabahat, Narjis Zahra, Farhat Saira, Fazila Nazir and Zia Ul Haq Khan. Study of supercapacitor applications of supported and unsupported obalt ferrite and Zn-doped cobalt ferrite nanocomposites. *Journal of Applied Electrochemistry* <https://link.springer.com/article/10.1007/s10800-024-02243-4>, **IF=2.4**
2023
24. **Zia Ul Haq Khan**, Taj Malook Khan, Amjad Khan, Noor Samad Shah, Nawshad Muhammad, Kamran Tahir, Jibran Iqbal, Abdur Rahim, Syed Khasim, Iftikhar Ahmad, Khadija Shabbir, Noor Shad Gul, and Jianbo Wu. Brief review: Applications of nanocomposite in electrochemical sensor and drugs delivery. *Front. Chem.*1152217,2023 <https://pubmed.ncbi.nlm.nih.gov/37007050>, **IF=5.5**
25. Mengmeng Xu, Suding Yan, Xiufan Liu, Simei Sun, **Zia Ul Haq Khan**, Wenzhong Wu, Jingyu Sun. Theoretical investigation on the degradation of sulfadiazine in water environments: Oxidation of •OH, SO₄•-and CO₃•- and reactivity of (TiO₂)_n clusters(n=1⁻⁶) ,109994,(2023). *Journal of Environmental Chemical Engineering* 2023, <https://www.sciencedirect.com/science/article/abs/pii/S2213343723007339>, **IF = 7.96**
26. Weikang Xiao, Suding Yan, Xiufan Liu, Simei Sun, **Zia Ul Haq Khan**, Wenzhong Wu, Jingyu Sun. Theoretical study on the degradation mechanisms kinetic and toxicity for aqueous Ozonation reaction of furan derivatives. *Chemosphere* 332, 138782, 2023 <https://www.sciencedirect.com/science/article/abs/pii/S0045653523010494>, **IF= 8.97**
27. Irum Batool, Karma Albalawi, Afaq Ullah Khan, Kamran Tahir, **Zia Ul Haq Khan**, Magdi E. A. Zaki. Ebraheem Abdu Musad Saleh. Eman A. Alabbad Talal M. Althagafi Fahad Abdulaziz. The Construction of novel CuO Photo catalyst for efficient degradation of Ciprofloxacin, methylene blue and photo inhibition of bacteria through efficient production of reactive oxygen species *Journal of Environmental Research* 231, 116086, 2023 <https://www.sciencedirect.com/science/article/abs/pii/S0013935123008782>, **IF =8.43**
28. Behzad Murtaza, Sana Bilal, Muhammad Imran, Noor S. Shah, Muhammad Shahid, Jibran Iqbal, **Zia Ul Haq Khan**, Naveed Ahmad, Abdullah A. Al-Kahtani, Zeid A. ALOthman. The Study of Removal Chromium (VI) ions from Aqueous Solution by Bimetallic ZnO/FeO Nanocomposite with Siltstone: Isotherm, Kinetics and Reusability. *Inorganic Chemistry Communications*,110891,2023 <https://www.sciencedirect.com/science/article/pii/S1387700323005038>, **IF=3.82**
29. **Zia Ul Haq Khan**, Faisal Mahmood, Noor Shad Gul, Noor Samad Shah, Sana Sabahat, Jibran Iqbal, Nawshad Muhammad, Abdur Rahim, Syed Khasim, Taj Malook Khan, Jianbo Wu. Green Synthesis of Lead Oxide Nanoparticles for Photo-Electrocatalytic and Antimicrobial Applications" to the following *Frontiers in Chemistry*, 11, 1175114, 2023 <https://www.frontiersin.org/articles/10.3389/fchem.2023.1175114/full>, **IF=5.5**
Muhammad Wakeel, Tasawer Hayat, Noor Samad Shah, Jibran Iqbal, **Zia Ul Haq Khan** , Ghulam Mustafa Shah , Atta Rasool. Biogas Energy Resources in Pakistan Status, Potential, and Barriers. *Utility Policy*,84, 101643, 2023, <https://www.sciencedirect.com/science/article/abs/pii/S0957178723001558>, **IF=4**

30. Muhammad Shahid, Muhammad Imran, Liaqat Ali, Muhammad Wakeel, Muhammad Hussnain Siddique, **Zia Ul Haq Khan**, Behzad Murtaza, Jibran Iqbal, mAbdullah A. Al-Kahtani, mLiaqat Ali. Remediation Potential of Biochar/Copper Oxide Nanoparticles Composite for Lead and Cadmium Contaminated Wastewater. *Environmental Earth Sciences*, 82:574, 2023 <https://link.springer.com/article/10.1007/s12665-023-11147-z>, **IF=2.8**
31. Jingyu Sun , Raijin Chu, **Zia Ul Haq Khan**, A theoretical study on the degradation mechanism, kinetics and ecotoxicity of metronidazole (MNZ) in $\bullet\text{OH}$ and $\text{SO}_4^{\bullet-}$ assisted advanced oxidation processes *Journal toxics-* 11, 796, 2023 <https://www.mdpi.com/2305-6304/11/9/796m> **IF=4.61**
32. Sumaria Aziz, Rabia Javed, Anna Nowak, Saad Liaqat, **Zia Ul Haq Khan**, Naveed Ahmad, Meteusz Dulski, Krzysztof Matus, Pervaiz Ahmad, Nawshad Muhammad. Effects of TiO_2 , Ag- TiO_2 , and Cu- TiO_2 Nanoparticles on Mechanical and Ant Cariogenic Properties of Conventional Pit and Fissure Sealants. *Journal Nano Open* 2023, 100185 <https://www.sciencedirect.com/science/article/pii/S2352952023000646>,
33. **Zia Ul Haq Khan**, Noor Shad Gul, Sana Sabahat, Jingyu Sun, Kamran Tahir, Noor Samad Shah, Nawshad Muhammad, Abdur Rahim, Muhammad Imran, Jibran Iqbal, Taj Malook Khan, Syed Khasim, Umar Farooq, and Jianbo Wu: Removal of Organic Pollutants through Hydroxyl Radical- Based Advanced Oxidation Processes, *Ecotoxicology and Environmental Safety*, 115564, <https://www.sciencedirect.com/science/article/pii/S0147651323010680>, 2023 **IF=6.8**
2022
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