



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
Islamabad, Pakistan.

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Total Impact Factor of Published Papers:

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720.6

Published Papers:

120

Citations:

5827

H-index:

49

I10-index

86

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 K 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 K 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, 2022**
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>

2024

1. Jibran Iqbal, Noor S. Shah, Javed A Khan; Kifayauallah 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**
2. Narjis Zahra, Sana Sabahat, **Zia Ul Haq Khan**, Farhat Saira ,Rahman Saleem, Abdur Rahim Fabrication of Nickel Ferrite@MWCNTs for Super-Capacitor Applications. *Journal of Applied Electrochemistry* **29**, 1-3 2024,
<https://link.springer.com/article/10.1007/s10800-024-02088-x>, **IF=2.29**
3. 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**
4. 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>,
5. 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**
6. 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**
7. 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*. <https://pubs.acs.org/doi/10.1021/acsomega.4c01313>, **IF=3.7**
8. 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>,
9. 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**

2023

10. **Zia Ul Haq Khan**, Taj Malook Khan, Amjad Khan, Noor Samad Shah, Nawshad Muhammad, Kamran Tahir, Jibrán 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**
11. 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 $\bullet\text{OH}$, $\text{SO}_4\bullet^-$ and $\text{CO}_3\bullet^-$ and reactivity of $(\text{TiO}_2)_n$ clusters ($n=1-6$), 109994, (2023). *Journal of Environmental Chemical Engineering* 2023, <https://www.sciencedirect.com/science/article/abs/pii/S2213343723007339>, **IF = 7.96**
12. 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**
13. 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**
14. Behzad Murtaza, Sana Bilal, Muhammad Imran, Noor S. Shah, Muhammad Shahid, Jibrán 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**
15. **Zia Ul Haq Khan**, Faisal Mahmood, Noor Shad Gul, Noor Samad Shah, Sana Sabahat, Jibrán 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**
16. Muhammad Wakeel, Tasawer Hayat, Noor Samad Shah, Jibrán 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**
17. Muhammad Shahid, Muhammad Imran, Liaqat Ali, Muhammad Wakeel, Muhammad Hussnain Siddique, **Zia Ul Haq Khan**, Behzad Murtaza, Jibrán 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**

18. Jingyu Sun , Raijin Chu, **Zia UI 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**
19. Sumaria Aziz, Rabia Javed, Anna Nowak, Saad Liaqat, **Zia UI 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>,
20. **Zia UI Haq Khan**, Noor Shad Gul, Sana Sabahat, Jingyu Sun, Kamran Tahir, Noor Samad Shah, Nawshad Muhammad, Abdur Rahim, Muhammad Imran, Jibrán 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
21. Noor S. Shah, Jibrán Iqbal, Murtaza Sayed, Ayman, A. Ghfar, Javed Ali Khan, **Zia UI Haq Khan**, Behzad Murtaza Grzegorz Boczkaj, Farruk Jamil. Enhanced solar light photocatalytic performance of Fe-ZnO in the presence of H_2O_2 , $\text{S}_2\text{O}_8^{2-}$ and HSO_5^- for degradation of chlorpyrifos from agricultural wastes: Toxicities investigation *Chemosphere*, 287, 132331, (2022) <https://pubmed.ncbi.nlm.nih.gov/34607113/>, **IF= 8.943**
22. Iftikhar Ahmad· Umme Farwa, **Zia UI Haq Khan**, Muhammad Imran, Bo Zhu, Atta Rasool, Ghulam Mustafa Shah, Muhammad Tahir, Munir Ahmed, Salar Rezapour, Laura Bulgariu. Biosorption and health risk assessment of arsenic contaminated water through cotton stalk biochar. *Surfaces and Interfaces* 29 2022 101806 <https://www.sciencedirect.com/science/article/abs/pii/S2468023022000876>, **IF= 6.137**
23. Muhammad Imran, Natasha, Behzad Murtaza, Sabah Ansar, Noor Samad Shah, **Zia UI Haq Khan**, Shahid Ali, Grzegorz Boczkaj, Farhan Hafeez Shafaqat Ali Muhammad Rizwan. Potential of nanocomposites of zero valent copper and magnetite with Eleocharis dulcis biochar for packed column and batch scale removal of Congo red dye, *Environmental Pollution*, 305, 119291, (2022) <https://www.sciencedirect.com/science/article/abs/pii/S026974912200505X>, **IF= 9.98**
24. Arfa Ahmed, Nawshad Muhammad, Asif Ali, Zeeshan Mutahir, Abdul Samad Khan, Faiza Sharif, Asma Tufail Shah, **Zia UI Haq Khan**, Saad Liaqat and Muhammad Adnan Khan. Effect of augmentin-coated silver nanoparticles on biological and mechanical properties of orthodontic bracket cement. *Materials Technology Advanced Performance Materials* <https://pubmed.ncbi.nlm.nih.gov/27556213/>, **IF= 3.846**
25. **Zia UI Haq Khan**, Salman Latif, Fahad Abdulaziz , Noor Samad Shah, Muhammad Imran, Nawshad Muhammad, Jibrán Iqbal, Muhammad Shahid, Mohamed Abdel Salam, Syed Khasim, Hidayat Ullah Khan. Photocatalytic response in water pollutants with addition of biomedical and anti-leishmanial study of iron oxide Nanoparticles. *Journal of photochemistry and photobiology. B, Biology.* 234, 112544 (2022) <https://www.sciencedirect.com/science/article/abs/pii/S1011134422001580>, **IF= 6.87**

26. Jibrán Iqbal , Noor S. Shah , , **Zia Ul Haq Khan** , Muhammad Rizwan , Behzad Murtaza, Muhammad Imran , Afzal Shah , Aman Ullah , Yousef Nazzal , Fares Howari. Visible Light Driven Doped CeO₂ for the Treatment of Pharmaceuticals in Wastewater: A Review. *Journal of Water Process Engineering*, **49**, 103130 (2022) <https://www.sciencedirect.com/science/article/pii/S2214714422005748?dgcid=coauthor>, **IF= 7.34**
27. Jibrán Iqbal, Noor S. Shah, Murtaza Sayed, Sajjid Rauf, **Zia Ul Haq Khan**, Nabeel Khan Niazi, Kyriaki Polychronopoulos, Fares Howari and Faiza Rehman. Efficient removal of norfloxacin using nano zerovalent cerium composite biochar-catalyzed peroxydisulfate. *Journal of Cleaner Production*. **377**, **134405**, **2022**. <https://www.sciencedirect.com/science/article> **IF= 11.07**
28. Dandan Kong, Gaoeng Wang, Yang Tang, Mengyue Guo, **Zia Ul Haq Khan**, Yiei Guo, Wei Gu, Yougui Ma, Ming Sui, Jinping, Meihua yang. Potential health risk of areca nut consumption: hazardous effect of toxic alkaloids and aflatoxins on human digestive system. *Journal food research international*, **162 Part A**, **112012**, **2022**. <https://www.sciencedirect.com/science/article> **7.42**
29. Zhou-Yu Su, Hao-Min Jiang, Zhi-Wei Han, Lu-Ting Zhang, Yang Tang, Ping-Yu Wan, **Zia Ul Haq Khan**, Yong-Mei Chen. Direct Conversion of Methane to Methanol on LaCo_{0.5}Fe_{0.5}O₃ Anode in Aqueous Ionic Liquid. *Int. J. Electrochem. Sci.*, **17**, 221161, **2022.**, **IF= 1.52**
30. Iftikhar Ahmad, Abdul Ghaffar, Ali Zakir, **Zia Ul Haq Khan**, Muhammad Farhan Saeed, Atta Rasool, Aftab Jamal, Adil Mihoub, Simone Marzeddu, Maria Rosaria Boni. Nitric Acid Activated Biochar is Cost-effective Technique for Arsenic Removal from Contaminated Drinking Water in Pakistan. *Sustainability* **14**, **14523** **2022**. <https://www.mdpi.com/2071-1050/14/21/14523/pdf> **IF= 3.88**
- 2021**
31. Muhammad Imran, Muhammad Mohsin Iqbal, Jibrán Iqbal, Noor Samad Shah, **Zia Ul Haq Khan**, Behzad Murtaza, Muhammad Amjad¹, Shafaqat Ali, Muhammad Rizwan. Synthesis, characterization, and application of novel MnO and CuO impregnated biochar composites to sequester arsenic (As) from water: modeling, thermodynamics, and reusability. *Journal of Hazardous Materials* **401**, (2021) 12333 <https://www.sciencedirect.com/science/article/abs/pii/S0304389420313273> **IF=14.22**.
32. Afaq Ullah Khan, Arif ullah khan, Baoshan Li, Mater H. Mahnashi, Bander A. Alymi, Yahya S. Alqahani, Ali O. Alqarni, **Zia Ul Haq Khan**, Sami Ullah, Muhammad Wasim, Qudrat Ullah Khan, Waqas Ahmad. Biosynthesis of silver capped magnesium oxide nanocomposite using olea cuspidate leaf extract and their photocatalytic, antioxidant and antibacterial activity. *Journal of Photodiagnosis and Photodynamic Therapy*, **33**, (2021), **102153**, **102153**. <https://www.x-mol.com/paper/1342676137094946816>. **IF=3.77**
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