

Dr. Shazia Khurshid

Associate Professor Chemistry GCU Lahore Pakistan

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Pakistan Residence, DOB 1972



Research Interest

- ❖ Microbial Production of Enzymes and their Purifications and Applications in Pharmaceutical, Medical and Health sciences.

Education

- ❖ **PhD Chemistry**, Govt. College University, Lahore Pakistan 2005-09

- ❖ Title: Microbial Production of Glucose Oxidase and its Commercial Applications.

- Synthesized & purified Glucose Oxidase enzyme by *A. niger* through fermentation method.
- Enhanced production by screening, optimization of culture conditions & UV mutation.
- GOX utilization for estimation of glucose & for the production of Metal gloconates.
- Synthesized & purified Mutarotase & Peroxidase enzymes.

- ❖ **M.phil Chemistry**, Govt. College University Lahore, Pakistan 2003-05

- ❖ Title: Microbial Production of Glucose Oxidase by *Aspergillus niger*.

- Produced microbial GOX by *A. niger* by submerged fermentation technique.
- Optimized fermentation conditions for maximum GOX production.
- Studied the effects of different sources on GOX production.

- ❖ **M.Sc. Chemistry**, University of Punjab Lahore Pakistan 1993-95

- ❖ Title: Adsorption study of Lead as a Pollutant in Acetic Acid on Fullers earth from specific areas of Pakistan.
- Investigated Adsorption of lead as a pollutant in Acetic acid on fullers earth from specific area of Pakistan.

Professional Experience

- Lecturer Chemistry, Department of Chemistry, Lahore College for Women University, Lahore, Pakistan. 1997-2002
Teach to F.Sc. & B.Sc. students.
- Lecturer Chemistry, Department of Chemistry GCU Lahore 2002-2012
- Assistant Prof. Chemistry, Department of Chemistry, Govt. College Lahore University, Lahore, Pakistan. 2012-2019
- Associate professor Chemistry, Department of Chemistry, Govt. College Lahore University, Lahore, Pakistan. 2019- till date
- Teach to F.Sc. & B.S and MS. students & supervised BSc, MS & M.phil and PH.D research students.
- **TOTAL 25 YEARS**

Memberships

- Tutor
- Proctor (Deputy)
- Member Board of Studies
- Member of Interview committee of GCUL.
- Member Pakistan Association for Scientists.
- Member Old Ravian Association.
- Member Dengue Committee, GCU Lahore.
- Member Duncliff chemical and Ravian forensic societies of department.
- Member discipline committee.
- Member of Admission committee.
- Member of board of Faculty.
- Focal person anti harassment committee GCUL.
- Focal person Punjab police internship programme.
- Focal person Punjab safe city Authority.
- Coordinator MS Forensic chemistry.
- Member Purchase committee.
- Incharge Forensic lab.
- Member sports board.

Instrumental Skills

- UV, IR, Spectrometer, FPLC & Atomic Absorption Spectrophotometer etc.

Languages

- English, Urdu, Punjabi, , Arabic (Reading).

Honors, Awards and Distinction

- Awarded with Governor's Scholarship for Ph.D.
- M.Phil. with 3.34 GPA (5th Position).
- Meritorious Certificate of Merit Govt. College University Lahore, Pakistan.
- On Merit selection through the Criteria laid by Public Service Commission.
- M.Sc .Scholarship holder and 4th position in University.
- B.Sc. Roll of Honour Scholarship Holder.
- F.Sc. Scholarship Holder.
- Throughout 1st divisions.

Presentations and Posters

- Presented at International conference Microbiology in Quaid-e-Azam University Islamabad Pakistan. *Enzymatic synthesis of gluconic acid*. M.A .Kashmiri, S.Khurshid, Z.Qureshi & A. Adnan, **2007**.
- Presented and Poster at International conference of chemistry in Lahore College for Women University Lahore Pakistan. *Fermentation conditions optimization for GOX production*, M.A .Kashmiri, S.Khurshid & Z.Qureshi, A. Adnan, **2007**.
- Presented at International conference of chemistry in Lahore College for Women University Lahore Pakistan. *Comparative study on the production of GOX by A.niger isolated from different sources*, M.A .Kashmiri, S.Khurshid & Z.Qureshi, A. Jamal, **2007**.

Training courses, Seminars & Workshops

- Attended the teachers training seminar held at G.C University Lahore Pakistan, **2006**.
- Training course of statistical technique used in chemistry held at G. C University Lahore, **2008**.
- Two-day workshop on improvement in quality of chemistry teaching organized by chemistry department G.C University Lahore Pakistan, **2005**.
- Two symposia on frontier in chemistry held at G.C University Lahore Pakistan, **2003 & 2005**.
- Workshop on crystallography, **2008**.
- Seminar on forensic chemistry organized by chemistry department G.C University Lahore Pakistan, **2009**.
- International chemistry conference in Lahore College for Women University Lahore Pakistan, **2008**.
- International Seminar on medicinal Plants in Lahore College for Women University Lahore Pakistan, **2010**.
- Three days Cacading workshop on Advanced faculty professional development program on ENSURING TRAINING EFFECTIVENESS at HEC LAHORE on September **2011**.
- International chemistry conference for the promotion of University-Industrial linkages in GCUL, 24-26 January **2018**.
- Hands On training workshop on ChemDraw Drawing Package in GCUL, **2018**.
- International conference on chemistry in Garrison University, **2018**.
- Seminar on ROAD SAFETY in GCUL, **2017**.

- International Symposium on Sensors and Biosensors in IRCBM COMSATS University Lahore, **2018**.
 - Attended seminar on TEM in GCUL, **2018**.
- Attended training workshop on DNA in the perspective of forensic Applications at GCUL **2018**.
- Presented a paper in Ist International conference on recent advances and challenges in basic and social sciences in contemporary research on 12-13 FEB **2020**. in GOVT POST GRADUATE ISMALIA COLLEGE FOR WOMEN COPPER ROAD LAHORE PAKISTAN.
- Presented one application of metal oxide nanoparticles in 3rd international conference on techno science in ANTALYA TURKEY on zoom on 18-20 DEC **2020**.
- POSTER PAPER IN INTERNATIONAL CONFERENCE IN UMT 27-29 th NOV 2019
- PAPER IN INTERNATIONAL WEBINAR IN UNESCO CHAIR USA 19th May **2021**.
- Attended seminar on Excluding the poor in GCUL ON 13 JAN **2020**.
- 2nd International conference (3days) on recent advances in chemical sciences in chemistry deptt GCUL on 20-22 March **2019**
- Attended Career counselling seminar on Interview skills and workshop on combating interview Anxiety in GCUL on 20 February **2019**.
- Paper online presentation in International conference on technology and science TURKEY on NOVEMBER 18-21, **2021**.
- Oral paper presentation in 1st International conference Trends and research in chemistry department University of Education on 18-19, **2022**.
- Oral paper presentation at 2nd online International conference on material science on nanomaterials in Heralds meeting USA on 13-14, August, **2021**.

- Attended Investor Awareness COMPANY INCORPORATION seminar at GCUL ON 19-9-**2018**.
- National guards training.
- Training of Govt officers to handle Harrassment complaints according to Act. At Office of Ombudsperson GOVT OF PUNJAN on 2nd September **2020**.
- 1st International Conference on Forensic Science and justice at GCUL on October **2014**.
- 2nd International conference on chemistry at Lahore Garrison University **2019**.
- 2nd International conference on Recent Advances in Chemical sciences at GCUL, March **2019**.

Training received in GCUL on Advance teaching and learning JULY 2023
Training GCU-YPR QEC JUNE 2022.

Research Projects (Two Projects)

- **NRPU project no 7657.** Title “Pharmaceutical and industrial implications of immobilized Glucose Oxidase on different Metal oxides nanoparticles”. As PI worth **3 million**.

- **SRGP Project.** Title ‘Synthesis, Biological evaluation and solid state-assembly of nitrogen and sulfur containing heterocycles and metal chelates using Baylis-Hillman methodology. As **CoPI** worth **5 hundred thousand**.

-----MOU AND COLLABORATIONS FOR INSTITUTIONAL DEVELOPMENT

- MOU with Punjab police for internship
- MOU with Punjab Safe City Authorities in process
- Collaborations with LUMS
- Collaborations with COMSATS
- Collaboration with ANF
- Collaboration with UMT
- Collaboration with UHS
- Collaboration with PFSA
- Collaboration with MYO Hospital
- Collaboration with Express Pac
- Collaboration with AB MORRI
- Collaboration with PCSIR.
- Collaboration with Bank ALFALAH for sponsorship
- Collaboration with BM HOMEOPATHIC PHARMACEUTICALS.

Referees Contact Detail

- **Dr. Osman Asghar Mirza**, Associate Professor, Department of Drug design and Pharmacology, University of Copenhagen, Copenhagen Denmark..
Phone number: +45 35336175
Email: om@sund.ku.dk
- **Prof. Dr. Abdul Qadir** Director institute of Chemistry University of Punjab Lahore Pakistan
Email: mabdulqadir@gmail.com
Phone number: +9233342058805

List of Students

<u>Sr#</u>	<u>Title of Thesis</u>	<u>Degree Program M.Phil/PhD</u>	<u>Session</u>	<u>Status Complete/In Process</u>
1.	Synthesis and Characterization of new Hydrogels and its application in waste water treatment. (Aisha Hameed)	PhD	2014-2017	Completed
2.	Synthesis and Characterization of Polyphosphazenes for Biomedical Applications (TanzelaGulabShehzady)	PhD	2016-2019	Completed
3.	Synthesis and Characterization of Iron, Nickel, Copper and Manganese Nanoparticles for biomedical applications (FaizaZarif)	PhD	2015-2018	Completed
4.	Synthesis and Characterization of Metal oxide nanoparticles and its biomedical applications	PhD	2015-2018	Completed
5.	Synthesis, Structural evaluation and Photo luminescent applications of coordination complexes derived from heterocyclic ligands (MadihaRiasat)	PhD	2015-2018	Completed
6.	Production and Purification of Protease (Imran Ahmed)	M.Phil	2011-2013	Completed
7.	Extraction and Purification of Lipase from Flax Seed. (AttiqueurRehman)	M.Phil	2011-2013	Completed
8.	Thyroidal function test in suicidal patient (Nisar Ahmed)	MS Forensic Chemistry	2011-2013	Completed
9.	Liquid Chromatographic Determination of Abuse Drug. (Najam ud Din)	MS Forensic Chemistry	2011-2013	Completed

10	Prevalence of Hepatitis C among drug Addicts in Lahore and its Peripheries. (Abdul Basit)	MS Forensic Chemistry	2010-2012	Completed
11	Adsorption study of Nymphaea Alba for Removal of Toxic Element from Industrial Waste (Shaheen Kausar)	MS Pharmaceutical Chemistry	2010-2012	Completed
12	Detection and Removal of Toxic Elements from local Industrial Waste (Gugan Jabeen)	M.Phil	2008-2010	Completed
13	Microbial Production of metal gluconates (Tehzeeb Kafait)	M.Phil	2008-2010	Completed
14	Production and Purification of Mutarotase (Amna Siddiqui)	M.Sc Industrial Chemistry	2007-2009	Completed
15	Statistical Determination of Serum metals of Different Factory Workers (Naveed)	M.Phil	2014-2016	Completed
16	Determination of Zinc, Cooper, Iron and Selenium levels in Serum of Hypothyroidism Patients. (Sibgha Ashraf)	M.Phil	2013-2015	Completed
17	Suicide in Substance Addicted Patients; possible role of Thyroid function status. (Sareen Akhtar)	MS Forensic Chemistry	2012-2014	Completed
18	Electrochemical Reduction of Carbondioxide into Organic Acid. (Manzara Arshad)	M.Phil	2015-2017	Completed
19	Lipase Catalyzed trans-esterification Reaction. (Tahira Kalsoom)	M.Phil	2015-2017	Completed
20	Studies on aqueous removal of acid orange 8 and crystal violet using low cost adsorbent based on the leaves of Ficus Religiosa. (Shahid Majeed)	M.Phil	2013-2015	Completed
21	Extraction of Narcotic Drugs from hair of addicted patients and its analysis.	MS Forensic Chemistry	2012-2014	Completed

	(Muhammad Usman)			
22	Comparison of proximate composition, nutritional attributes and fatty acid profile of processed and raw milk. (Shakra Aftab)	M.Phil	2015-2017	Completed
23	Analysis of contaminants in drinking water samples of different brands and origins. (Nawal Afzal)	MS Forensic Chemistry	2012-2014	Completed
24	Synthesis of Cu Nanoparticles extracted from ore and its applications. (Shahid Ali Saim)	M.Phil	2016-2018	Completed
25	Comparative study of different Physical and Chemical methods used for development of latent finger print. (Hadie)	MS Forensic Chemistry	2016-2018	Completed
26	Investigative analysis of heavy metals in industrial waste and its removal by adsorption on roots of Trapabispinosa. (Ifsha Ikhlaq)	MS Forensic Chemistry	2016-2018	Completed
27	Comparative analysis of Heavy Metals in Hair and nails samples of Drug addicted patient in relation with water intake facilities. (Inzamam ul Haq)	MS Forensic Chemistry	2016-2018	Completed
28	Frequency of Thyroxin overdosage in hypothyroid patient, correlation with suicide intention. (Bilal Ahmed)	MS Forensic Chemistry	2016-2018	Completed
29	An Investigative Study of prevalence of Heavy Metals in Hair and Nails of School Children, Correlation with water intake from public school facility. (Bilal Ahmad)	MS Forensic Chemistry	2016-2018	Completed
30	Forensic analysis and removal of heavy metals in vegetable samples from different area nearby Lahore.	MS Forensic Chemistry	2017-2019	Completed

	(M. Anwarul Haq)			
31	Detection and Removal of Heavy Metals in fruits samples (in canned and fresh fruits) from different areas of Lahore by using atomic absorption spectrophotometer. (Mehvish Mushtaq)	MS Forensic Chemistry	2017-2019	Completed
32	Forensic Analysis of heavy metals in selected fish species found in main anagling spots of Punjab Pakistan. (M. Mehmood Ahsan)	MS Forensic Chemistry	2017-2019	Completed
33	Production and Immobilization of Glucose Oxidase on metal oxides nanoparticles for commercial use. (Razia Batool)	M.Phil	2017-2019	Completed
34	Production of Metal oxides nanoparticles for Immobilization of enzyme and its industrial applications. (Noor Fatima)	M.Phil	2017-2019	Completed
35	Detection and Removal of Toxic Metals in different drinking water samples of different areas of Lahore by using atomic absorption spectrophotometer. (Saroorj Maqsood)	M.Phil	2017-2019	Completed
36	Removal of Heavy Metals from Industrial effluents by plantagovataseed. (Kinza Burzakh)	M.Phil	2017-2019	OnGoing
37	Production of Metal Oxides nanoparticles by chemicals methods and their application. (Mehak Nadeem)	M.Sc Chemistry	2017-2019	Completed
38	Antidiabetic Application of ZnO/GOX Bioconjugate. (M. Aamir Razzaq)	M.Phil	2018-2020	Completed
39	Comparative study of activity of glucose oxidase before and after immobilization with magnetite nanoparticles. (Mounas Riaz)	M.Phil	2018-2020	Completed

40	Synthesis and Characterization of TiO_2/GOX Bioconjugate and its application. (Aqib Khurshid)	M.Sc Chemistry	2018-2020	Completed
41	Synthesis and Magnetite nanoparticles and immobilization of GOX and its application in water deoxygenation. (Rabia Habib)	M.Sc Chemistry	2018-2020	Completed
42	Immobilization of GOX with AgO nanoparticles and its antidiabetic application. (Ehsan Ullah)	M.Sc Chemistry	2018-2020	Completed
43	Synthesis of Sunscreen and vanishing cream using titanium dioxide and ZnO nanoparticles. (Mehvish)	M.Sc Chemistry	2018-2020	Completed
44	Synthesis of Silver nanoparticles for the formation of Ag/GOX Bioconjugate. (M. Shumail)	BS (H)	2016-2020	Completed
45	Green synthesis of Nickel Oxide nanoparticles for immobilization with GOX enzyme. (Fatima Latif)	BS (H)	2016-2020	Completed
46	Synthesis and immobilization of ZnO nanoparticles with GOX for application. (Munazza Shafiq)	BS (H)	2016-2020	Completed
47	Synthesis of Titanium dioxide nanoparticles for enzymatic immobilization and its application. (Azka Ather)	BS (H)	2016-2020	Completed
48	Facile Immobilization of GOX on Gold nanoparticles and its application. (Rehan Javaid)	BS (H)	2016-2020	Completed
49	Comparative study of GOX before and after immobilization with CuO nanoparticles. (Abeerah Hanan)	BS (H)	2016-2020	Completed
50	Synthesis of Silver nanoparticles for use in finger print analysis. (Khadija Khan)	MS Forensic Chemistry	2018-2020	Completed

51	Synthesis and Characterization of sunblock and vanishing cream by using bioconjugate of GOX/ZnO/TiO ₂ . (Saba Maryam)	MS Forensic Chemistry	2018-2020	Completed
52	Removal of Heavy metals from industrial effluents by plantago ovate seeds. (Bilal Ashraf)	MS Forensic Chemistry	2018-2020	Completed
53	Bioremediation potential of bacterial consortia for fiber reactive textile azo dye retrieved from local industries effluents. (Muhammad Ali Raza)	MS Forensic Chemistry	2018-2020	Completed
54	Detection and removal of toxic metals in different drinking water samples in different areas of Lahore by using atomic absorption spectrophotometer. (Tanzeel ur Rehman)	MS Forensic Chemistry	2018-2020	Completed
55	Biomedical application of GOX/ZnO Bioconjugate. (Mehran Rabbani)	MS Forensic Chemistry	2019-2021	Completed
56	Pharmaceutical application of ZnO nanoparticles. (Fizzia Saleem)	MS Forensic Chemistry	2019-2021	Completed
57	Wound healing activities of GOX/ZnO Bioconjugate. (M. Abbas)	MS Forensic Chemistry	2019-2021	Completed
58	Chemical Synthesis characterization of TiO ₂ -GOX bioconnect system. (Usama Gondal)	MS Forensic Chemistry	2019-2021	Completed
59	Comparative analysis of activity of GOX before and after immobilization with magnetite nanoparticles and its application (Quratulain)	MS Forensic Chemistry	2019-2021	Completed
60	Green Synthesis and characterization of TiO ₂ nanoparticles and its enzymetic coupling. (Fariha Nasir)	MS Forensic Chemistry	2019-2021	Completed
61	Biosynthesis and characterization of Gold	MS Forensic Chemistry	2019-2021	Completed

	nanoparticles and assessment of their toxicity in albino mice. (Almas Azhar)			
62	Biomedical application of plant mediated synthesis of silver nanoparticles. (M. Waheed)	M.Phil	2019-2021	Completed
63	Comparative study of wound healing activity between ZnO nanoparticles and GOX-ZnO Coupling System. (Rozina Ameen)	M.Phil	2019-2021	Completed
64	Comparison of wound healing activity of polyfax ointment and enzyme-metaloxide bioconnect system. (Amna Riaz)	M.Phil	2019-2021	Completed
65	Green Synthesis and characterization of silver nanoparticles and its wound healing application. (Arsalan Saeed)	BS (H)	2017-2021	Completed
66	Synthesis and characterization of AgO and its applications. (Maria Maryam)	BS (H)	2017-2021	Completed
67	Chemical synthesis and characterization of CuO nanoparticles and its medical application. (Nauman Ahmed)	BS (H)	2017-2021	Completed
68	Green Synthesis and characterization of silver nanoparticles for its use in biomedical and forensic applications. (Noorma Shahid)	MS Forensic Chemistry	2020-2022	Continue
69	Comparison between the effect of ZnO nanoparticles and Ag nanoparticles for the enhancement of shelf life of Guava (Sheza Farhat)	MS Forensic Chemistry	2020-2022	Continue
70	Synthesis and characterization of ZnO nanoparticles and its application in development of latent finger print.	MS Forensic Chemistry	2020-2022	Continue

	(Zoha Ashraf)			
71	Synthesis and characterization of 2D materials based nanoparticles for biosensing. (Sunnia Tariq)	MS Forensic Chemistry	2020-2022	Continue
72	Synthesis and characterization of hematite nanoparticles for industrial application. (Saira Shaukat)	M.Phil	2020-2022	Continue
73	Synthesis and characterization of Gold nanoparticles and its industrial application. (Tanzeel ur Rehman)	BS (H)	2018-2022	Completed
74	Green synthesis and characterization of Ag nanoparticles and its application. (Esha Adnan)	BS (H)	2018-2022	Completed
75	Chemical synthesis and characterization of silver nanoparticles and its industrial application. (Eiza Shaukat)	BS (H)	2018-2022	Completed
76	Green synthesis of silver nanoparticles from seeds extract of cichorium intybus and its antifungal activity. (Basit Shafiq)	BS (H)	2018-2022	Completed
77	Synthesis and characterization of magnetite nanoparticles and its application. (Warda Mushtaq)	BS (H)	2018-2022	Completed
78	Comparative study of shelf life enhancement strategies of food items treated with immobilized enzyme nanoparticles on different support. (Sumaira Shaukat)	PhD		Continue
79	Industrial applications of immobilized glucose oxidase on metal and metal oxide nanoparticles. (Jahangir Khan)	PhD		Continue
80	Green synthesis of silver and gold nanoparticles by using cichorium intybus for pharmaceutical application.	PhD		Continue

	(Amna)			
81	Biosensor fabrication by using metal and metal oxide nanoparticles immobilized with GOX. (Memoona)	PhD		Continue

NOTE: MORE SEVEN MSFC , FIVE BS (H) AND TWO PHD STUDENTS COMPLETED THEIR THESIS TILL DATE IN 2023. (LIST ATTACHED)

Published Papers of Dr.Shazia Khurshid

1. Faiza Zarif, Sajid Rauf, Shazia Khurshid, Naushad Muhammad, Akhtar Hayat, Abdus Rahim, Noor samad Shah and Chang Ping Yang **(2020)**.
“Effects of Pyridinium based ionic liquid on the sensing property of Ni nanoparticles for the colorimetric detection of hydrogen Peroxide”. *Journal of Molecular Structure*. Vol 1219: 128620. **IF = 3.841**
2. Faiza Zarif, Shazia Khurshid, Naushad Muhammad, Muhammad Zahid Qureshi and Noor S. Shah. **(2020)**.
“Colorimetric Sensing of Hydrogen Peroxide Using ionic Liquid- sensitized zero-valance Copper Nanoparticles (nzvcu)”. *Chemistry Select*. Vol 5: 1-10. **IF = 2.307**
3. Madiha Batool, Shazia Khurshid, Muhammad Zahid Qureshi and Walid M. Daoush **(2020)**.
“ Adsorption, anti-microbial and wound healing activities of biosynthesized zinc Oxide nanoparticles”. *Chemical Papers*. Vol 74: (9). **IF = 2.146**

4. Madiha Batool, Shazia Khurshid, Muhammad Zahid Qureshi, Ali Hassan, Muhammad Bilal Ahmed Siddique, Sabiha Naveed and Sabir Ali Siddique. **(2020)**.
“Study of biogenetically fabricated transition metal oxide nanoparticles on oral cavity infection microbial strains”. *Inorganic and Nano-metal Chemistry*. Vol. 47: 1-11. **IF = 1.514**
5. Madiha Batool, Shazia Khurshid, Muhammad Zahid Qureshi and Walid Mohamed Daush, Farwa hashmi and Nida Mehmoob **(2020)**.
“Effective Adsorption removal of azodyes on synthesized Copper Oxide nanoparticles. *Biointerface Research in Applied Chemistry*. Vol. 10(3): 5369-5375. **IF = 2.23**
6. Aisha Hameed, Shazia Khurshid and Ahmed Adnan. **(2020)**.
“Synthesis and characterization of Carboxymethyl Cellulose based hydrogen and its application on water treatment”. *Desalination and water treatment*. 1-14. **IF = 1.273**
7. Umer Younas, Shahid Iqbal, Zohaib Saeed, Saba Ibrahim, Shazia Khurshid, Muhammad Pervaiz, Asif Saleem, Asma Zaidi, Munawar Iqbal and Arif Nazir, **(2020)**.
“Heavy Metals Enrichment of Soil Irrigated with Paper and Board Mill (PBM) Effluents” *Polish Journal of Environmental Studies*. Vol. 29 ; (6): 4463-4468. **IF = 1.871**
8. Abdual Shakoor, Rashida Bashir, Shazia Khurshid, Tabassum Bashir, Saba Ibrahim, Sajad Hussain and Ahmed Adnan. **(2020)**.
“Liquid Chromatography Technique for Simultaneous Estimation of Metformin and Vildagliptin. Application of Pharmacokinetic in Healthy Rabbits”. *Latin American Journal of Pharmacy*. Vol 39(3): 490-497. **IF = 0.240**
9. Hafiz Muhammad Arshad, Shazia Khurshid, Shehzad Sharif, Muhammad Ali, Muhammad Dilshad, Muhammad Ajmal, Sadaqat Ali and Hafiz Ishfaq Ahmed. **(2020)**.
“Synthesis and Characterization of Zirconium Metal complexes derived from Benzene-1,4- dicarboxylic acid. *Journal of the Chemical Society of Pakistan*. Dec issue 2020. **IF = 0.698**
10. Madiha Batool, Shazia Khurshid, Zahid Qureshi and Amin Abid. **(2021)**.
“Quality Control of Nano food Packing material for grapes (Vitis Vini Fera) based on ZnO and Poly Lactic Acid.” *Arabian Journal for Science and Engineering*. 2 FEB issue 2021. **IF = 2.807**
- 11.** Madiha B, Shazia K, Zahid Q, and Ali H, **(2020)**.
“Biogenically fabricated TMO-NPs and their Antibacterial and Fungal Assay (WELL DIFFUSION METHOD) in saline solution” *Nanomedicine and Nanotechnology open access* vol 5 (1) 1:7 **IF = 1.5682**
- 12.** Madiha Batool, Shazia Khurshid, Walid M Daoush, Sabir Ali Saddique and Tariq Nadeem. **(2021)**“ Green Synthesis and biomedical application of ZnO nanoparticles: Role of PEGylated-ZnO Nanoparticles as Doxorubicin Drug carrier against MDA-MB-231(TNBC) Cell line” *CRYSTALS VOL 11 -344 1-9*. **IF= 2.67.**

13. Razia batool, Syed Akif Raza Kazmi, Shazia Khurshid, Muhammad Saeed, Sikender Ali, Ahmad Adnan, Faizah Altaf, Aminah Hameed, Farwa Batool and Noor Fatima.

(2021) “ Postharvest shelf life enhancement of peach fruit treated with glucose oxidase immobilized on ZnO nanoparticles” *FOOD CHEMISTRY* . IF = 9.231

14. Syed Akif Raza Kazmi, Muhammad Zahid Qureshi, Sadia, Saleh S, Alhewairini, Shaukat Ali, Shazia Khurshid, Muhammad Saeed, Shumaila Mumtaz and Tufail Akber Mughal. (2021) “ Minocycline-Derived silver nanoparticles for Assessment of their Antibiotic potential against Alloxan- Induced Diabetic Mice” *Pharmaceutics* IF = 6.51

15. Madiha Riasat, Shahzad Sharif, Shazia Khurshid, Sidra Farid, Rehana Bano, Mazhar Amjad Gillani, Onur Sahin and Fauzia Perveen. (2022) “ Ultrasonic assisted synthesis of Zn (II) 2D Coordination polymer and 4-nitroaniline photoluminescence sensing manifestation through DFT studies” *Journal Of Coordination Chemistry* IF = 1.869

16. Shazia Khurshid, Muhammad Pervaiz, Sareen Akhtar, Shan Elahi, Asma Zaidi, Zohaib Saeed and Syed Majid Bukhari (2018). “Changes in thyroid function status of suicidal patients”. *Archives of Clin Psychiatry*. **Vol.45(1):12-14.** IF = 0.984

17. Najam ud din, shafi H, Imran M, Sarwar M, Tahir MA and Khurshid S (2018). “ Validated reverse phase Liquid Chromatographic method for simultaneous determination of Dextromethorphan and Chlorpheniramine in non biological and biological matrices using PDA detector”. *Pharmaceutica Analytica Acta..* **Vol 9(7): 1-6.**
IF = 1.4

18. Tanzeela Gulab Shahzady, Shazia Khurshid, Amin Abid, Zulfiqar Ali, Shumaila Razzaq, Hajira Rehman, Asmat Zahra, Shabbir Hussain and Muhammad Waqas (2019). “ Synthesis, Characterization and Hydrolytic Degredation of P-Cresol-Substituted Polyphosphazenes”. *Arabian Journal for Science and Engineering*. IF = 2.807

19. Muhammad Usman, Abid Naseer, Yawar Baig, Tahir Jamshaid, Muhamma Shahwar and Shazia Khurshid. (2019). “ Forensic Toxicological Analysis of Hair: a review”. *Egyptian Journal of Forensic Sciences*. Vol 9-17: 1-12. IF = 1.271

20. Amin AM, Shahzady TG, Shazia K, Adnan A, Rasheed A, Wang Li, Yu Haojie and Shakil MA (2017). “ Synthesis, Characterization and hydrolytic degradation of Poly [bis (methyl glycolate diethyleamino) phosphazene} and poly { Ethyl glycolate diethylamino) Phosphazenes}. *Inorganic chemistry* . **Vol 12(2):1-10.** IF = 5.436

21. Gugan Jabeen, Shazia Khurshid, Shaista Ali and Muhammad Akhyar. (2017). “Detection and removal of Chromium under various process parameters from the local industrial wastewater by *Nymphaea alba*”. *SPRINGER JOURNAL Proceedings of the National Academy of Sciences, Physical Sciences (NASA)*” IF = 0.96

22. Arshad Mehmood, Sheher Bano, Sajida Noureen, Shazia Khurshid, Fatima Tazeen Hussain. **(2015).** " Efficient removal of Crystal Violet and Eosin B from aqueous solution using *syzygium cumini* leaves: A comparative study of acidic and basic dyes on a single adsorbent" *Korean journal of chemical engineering*. **Vol 32(5): 882-895.** **IF = 3.146**

23. Abdul Basit Malik, Shazia Khurshid, Uzma Hanif, Saleem Bukhari, Mubina Ulfat and Saiqa ishtiaq **(2015).** "Prevalence of HCV among Drug Addicts in Lahore and its Peripheries". *International journal of phytomedicine*. **Vol 7: 337-342.** **IF = 0.65**

24. Tabassum Bashir, Muhammad Zahid Qureshi, Shazia Khurshid and Rana Faraz **(2014).** "Synthesis and characterization of Silver Nano Particles from Extract of *Eucalyptus Citriodora* . *Asian Journal of Chemistry*, **Vol 26.(4):1204-1206** **IF = 0.493**

25. Iqra yaseen, Mobina ulfat, Ahmad shoab, Shazia khurshid, saba qaisar, Muhammad Fiaz Qamar, Uzma Hanif and Muhammad Mustafa Qamar. **(2014).** "Effect of different cooking procedures on the nutritional status of ghia kadu and tinda". *Science international* **Vol 26(1)**

26. Shazia Khurshid, Tehzeeb Kafiat, Uzma Hanif, Mobina Ulfat, Muhammad Zahid Qureshi, Tabassum Bashir, Amina Sajid, Saiqa Ishtiaq and Tariq Ismayil **(2013).** "Application of glucose oxidase for the production of metal gluconates by fermentation". *African Journal of Biotechnology*, **12(48): 6766-6775.** **IF = 0.5**

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39. Madiha Batool, Shazia khurshid and Zahid Qureshid (2021). " Biogenically fabricated Metal Oxide Nanoparticles for potential application. *Journal of chemical engineering and process technology. IF = 2.166*

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41. SUmaira shaukat, Shazia Khurshid, Jahangir Khan, Abad Ali Nadeem, Tariq Aziz, Nahaa M.Alotaibi, Manal y. Sameeh **(2023)**. Biosynthetically producedGOX immobilized Silver nanoparticles bioconjugate treatment improves the shelf life of mango fruit: an innovative method towards food safety and sustainbility. *Biomass conversion and Biorefinery* **IF= 4.05**

42. Sumaira shaukat , Shazia Khurshidjehangir khan, Razia batool. **(2023)**. Enhancement of shelf life of food items via immobilized enzyme nanoarticles on varried support. A sustainable approach towards food safety and sustainbility. *Food Research International* **IF= 7.5**

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44. Nauman Ahmed and Shazia khurshid **(2023)**. Preservation of sugarcane Juice by nanoparticles , Glucose oxidase enzyme and sodium Benzoate. (Accepted) *Global jurnal publications* **IF = 2.4**

TOTAL IMPACT FACTOR = 100.

International and National POSTER PRESENTATIONS in Years 2020-2021

- Presented a paper in 1st International conference on Recent advances and challenges in basic and social sciences in contemporary research on 12-13 FEB 2020.in GOVT POST GRADUATE ISMALIA COLLEGE FOR WOMEN COPPER ROAD LAHORE PAKISTAN.
- Presented one application of metal oxide nanoparticles in 3rd international conference on techno science in ANTALYA TURKEY on zoom on 18-20 DEC 2020.
- POSTER PAPER IN INTERNATIONAL CONFERENCE IN UMT 27-29 th NOV 2019
- PAPER IN INTERNATIONAL WEBINAR IN UNESCO CHAIR USA 19th May 2021.

HEC RESEARCH PROJECT COMPLETED IN
YEARS 2020-2021

- 1, SRGP WORTH RS= 5 LACS
- 2, NRPU WORTH RS= 30 LACS.

PHD STUDENTS COMPLETED THESIS AND NOTIFIED IN
YEARS 2020-2021

- 1, Tanzeela Gulab Shahzadi**
- 2, Faiza Zarif**
- 3, Madiha Batool**
- 4, Ayesha Hameed**
- 5, Madiha Riasat**
- 6, Jahangir khan (thesis completed)**
- 7 Sumaira Shaukat (thesis completed)**

TOTAL 7 PHD STUDENTS SUPERVISED

three MORE PHD STUDENTS RESEARCH ONGOING.

1 Maryam rana

2 AMNA

3 MEMOONA