

CURRICULUM VITAE

Dr. Tayyaba Shahzadi

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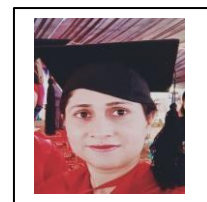
<https://www.scopus.com/authid/detail.uri?authorId=35752296500>

Web of Science Researcher ID: GOE-6869-2022

Nationality: Pakistani

Current Position: Assistant Professor

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ACADEMIC/PROFESSIONAL QUALIFICATION

2013	Ph.D	GC University Lahore
2007	M.PHIL	GC University Lahore
2005	B.Ed	University of Education, Lahore
2004	M.Sc	University of the Punjab
2002	B.Sc	University of the Punjab
2000	F.Sc	BISE Faisalabad
1998	Matric	BISE Lahore

RESEARCH EXPERTISE/RESEARCH OUTCOMES:

Working on synthesis of nanomaterials/composites and their applications as:

- Catalysis, Drug delivery, Waste water treatment, Fuel cells

NATIONAL & INTERNATIONAL FUNDED PROJECTS:

- Surface modified biosynthesized magnetic nanoparticles for the removal of dyes from industrial effluent. Start-Up Research Grant Program HEC funded.(As Co-PI)

AWARDS AND HONOURS

- Commonwealth Professional Fellow, University of Strathclyde, Glasgow UK (1/03/2025 to 31/05/2025).
- Research Fellow at Shinawatra University (12/01/2024 to 12/01/2027)
- HEC approved supervisor.
- Got indigenous scholarship from HEC for whole PhD programme.
- Conferred as “Best Researcher” in 2013, the year of Chemistry.
- Awarded by silver medal and certificate in 8th class by Pakistan Haral Welfare Society on good education performance.

PROFESSIONAL EXPERIENCE

- **2015 to date:** Assistant Professor, GC Women University, Sialkot
- **2012-2015:** Chemist/ BPS 17 SAACIWCE Labour & Human Resource Department
- **2017-2018:** Internee/ Govt. Jinnah Degree College, Lahore.

MS THESIS SUPERVISED/UNDER SUPERVISION:

1. Green synthesis of magnetic nanoparticles and their application in dyes removal from wastewater.
2. Bio-synthesis of magnetic nanoparticles and their application in dyes removal from wastewater.
3. Eco-friendly synthesis of Ag-NPs using *Ghazenia* sp. and evaluation of its various activities.
4. Synthesis, characterization and various applications of silver nanoparticles prepared by *Vila tricolor*.
5. Bio-synthesis of metal nanoparticles with *Cannabis Sativa* and evaluation of its various activities.
6. Synthesis, structural characterization and applications of metal nanoparticles using *Araucaria heterophylla* leaves.
7. Comparative study of green synthesized monometallic and bimetallic nanoparticles for colorimetric sensing of cupric ions.
8. A facile one-pot synthesis of doped reduced graphene-metal nanocomposites: Evaluation of various activities
9. Amoxicillin degradation using green synthesised graphene-metal nanocomposites and investigation of various bioactivities
10. Phyto-mediated synthesis of mono and bimetallic nanoparticles: Evaluation of Biochemical Activities
11. Green Synthesis of Strontium Nanoparticles and Biopolymer Nanocomposite: A Comparative Study on

Physiochemical and Catalytic Activity

12. Enhanced Removal of Ciprofloxacin from Aqueous Solution Using Metal Organic Frameworks (MOFs) incorporated onto Biopolymer Hydrogel and Doped with Nanocatalyst
13. Comparing Enhanced Catalytic Activity of Doped and Undoped Tin Oxide Nanoparticles Integrated into Reduced Graphene Oxide for Organic Dyes Degradation
14. Facile Synthesis of Doped and Undoped Carbon Dots Capped Tin Nano Composites for Selective and Sensitive Detection of Iodide Ions
15. Evaluating Catalytic Activity of Different Doped-Carbon Dots Decorated Manganese Oxide Nanocomposites
16. One Pot Synthesis of Undoped and Doped Reduced Graphene Oxide Based Metal Nano-Composite: An Effective Approach Towards Pharmaceutical Product Degradation
17. Sensitive Detection of Melamine in Milk Using Ag-based Metal Organic Frameworks (MOF's) Doped with Magnetic Nanocatalyst. Effective Aqueous Sequestration of Levofloxacin using Metal Organic Framework Imbedded onto Biopolymer Based Hydrogel Doped with Nano-biocatalyst
18. Comparative analysis of seed priming and medium supplementation of cobalt nanoparticles on sprouting and root growth in radish (*Raphanus sativus*) under salt stress.
19. Cobalt nanoparticles seed priming alter the germination rate, growth and nutritional profiles of carrot (*Daucus carota* L.) under salt stress
20. Synthesis, characterization and study of electrochemical properties of trimetallic nanoparticles decorated on graphene oxide
21. Synthesis, characterization and electrochemical performance of SnCuFe₂O₄ nanoferrites.
22. Synthesis of Functionalized Silver-Based Nanocomposite for Rapid and Selective Sensing of Pesticides. (Wajeeha Ahmad).
23. Adsorptive Removal of Pesticides from Aqueous Media with a Metal Organic Framework Based Nanocomposite (Wajiha Fatima).
24. Synthesis of chitosan/graphene oxide-Zn bio nanocomposite hydrogel beads for controlled drug delivery (Moazma Amber)
25. Fabrication of Bimetallic-Polyvinylpyrrolidone Nanocomposite for Sensing of Urea and Melamine (Jawahra Arshad).
26. Synthesis and Characterization of Graphene Based Metal Nanocomposite for Effective Removal of Pesticides from Aqueous Medium (Ateeqa Nazir).
27. Fabrication of Graphitic Carbon Nitride Nanosheets Decorated By Metal Nanoparticles For Removal Of Organic Pollutants (Amna Shahnawaz).
28. Carboxymethyl Cellulose (CMC) Coated Bimetallic Nanocomposite For Selective Sensing Of Milk Adulterants (Hira Shahzadi)

PHD THESIS UNDER SUPERVISION:

1. Fabrication of highly efficient doped reduced graphene based nanomaterials for wastewater treatment and bioactivities. Amina Kanwal (Thesis submitted)
2. Removal of fluoroquinolone based pollutants by reduced graphene metal nanocomposites.
3. Development of functionalized silver based nanocomposites for sensing of milk adulterants.
4. Synthesis and Characterization of Graphene Oxide based Metal Nanocomposites for Investigation of Electrochemical Properties. (Almas)
5. Removal of Pesticides from Aqueous Media by Metal Organic Framework Embedded on Biopolymer Based Hydrogel Doped with Nanocatalyst (Kanwal Naz)

ADMINISTRATIVE & ADVISORY EXPERIENCE:

1. Incharge of Department of Chemistry:

Served as Incharge of Chemistry department for a period of two years (20/5/2021 to 19/05/2023).

2. Member of Central and Departmental Admission Committee:

Serving as a member of central university and departmental admission committee to help out the admissions of BS, MS & PhD programs.

3. Member of Istakshaaf Chemical Society:-

Serving as a member of Organizing Committee to arrange the invited lectures /seminars/workshops and functions in the Department.

4. Member of Curriculum Review Committee

Serving as a member of curriculum review committee to review curriculum and offer suggestions to improve it.

5. Member of CTIs and visiting appointment committee:-

Serving as a member CTIs and visiting appointment committee to conduct interviews and final selection CTIs and visiting faculty for the department.

6. Member of Board of Studies

Served as member of Board of Studies in Chemistry for arranging meeting of members to revise curriculum and other BOS related activities.

7. Examination member

Served as member of departmental examination cell to conduct exams of department and other exam related activities.

8. Departmental tenure review committee

Serving as secretary to conduct departmental tenure review of TTS faculty members.

9. Grievance Committee

To address the grievance and settlements of disputes in regard to procurement.

SYMPOSIA/CONFERENCES/WORKSHOPS CONDUCTED AS A CHIEF ORGANIZER

1. Chemical Insights: Advances and Innovations held on 30 May, 2024 at GC University Sialkot.
2. Accessing Wiley Journals and Publication Tips for Authors and Researchers organized by HEC 10th December 2024.
3. An orientation session was organized on 13th May 2022 with **Prof. Dr. Hadariah Bahron** (Faculty of Applied Sciences - UNIVERSITI TEKNOLOGI, MARA), to discuss the topic – **What is research (problems and solutions)**.
4. A seminar on “**Synthesis of Metal Nanoparticles for Heterogeneous Catalysis**” was organized by Istakshaf Chemical Society (ICS) of Chemistry Department GC University Sialkot on 12th April 2022 at 11.00am.
5. One day seminar on “Entrepreneurship and Protection of Intellectual property rights filing process and prosecution of Patent’s” was organized on 21st March 2022.
6. A Poster/Project Competition on a topic “**Creative settlements of disputes in regard to procurement Chemistry: Solution of Major Problems**” was organized 22nd December 2021.
7. An online lecture on “**Thesis Writing and Viva Voce What Would Delight Examiners-A guide for Students and Young Academics**” was organized by Istakshaf Chemical Society (ICS) of Chemistry Department on 18th November 2021 at 1.00 pm. The guest speaker was Prof. Dr. Hadariah Bahron who is an active researcher recently working at Faculty of Applied Sciences “Universiti Teknologi MARA” (UiTM), Shah Alam, Selangor, Malaysia.
8. An online lecture “**Micro-gel Polymers for the Treatment of Contaminated water**” was organized and attended on 21 January June 2021. The guest speaker was **Dr. Umar Farooq** who is an active researcher working at Punjab University, Lahore.
9. An online lecture on “**Coordination Chemistry: Imines & Metals, A Match Made in Heaven**” was organized and attended on 19th June 2020. The guest speaker was **Prof. Dr. Hadariah Bahron** who is an active researcher recently working at Faculty of Applied Sciences “Universiti Teknologi MARA” (UiTM), Shah Alam, Selangor, Malaysia

SYMPOSIA/CONFERENCES/WORKSHOPS ATTENDED

10. Participated in two days training of Atomic Absorption Spectrophotometre at Central Research Laboratory held on 22-23 November 2022.
11. Attended training workshop on Punjab procurement rules 2014 held on 27/05/2021 to 28/05/2021 at GC University Sialkot.
12. Attended training workshop on Professional development of faculty 20/06/2022 to 01/07/2022 at GC University Sialkot.
13. Attended 1st international industrial chemistry conference 26-28 Feb 2021 at NED university of Engineering and Technology.
14. Attended training workshop on **High Performance Liquid Chromatography on 12-15 Dec, 2020**, organized by Central Research Laboratory, GC Women University, Sialkot
15. Attended one day online training on **“5 Tips for Getting Published: Maximize your chances to get your paper published in accepted in academic journals”** arranged by ProQuest Customer Experience in partnership with Higher Education Commission, held on 23-10-20.
16. Delivered lecture on **“Eco-friendly synthesis of ZnO nanoparticles using Cannabis sativa and assessment of its activities as efficient dyes removal”** 1st International Conference on Advances in Materials Science held on 23-24 July, 2020 at University of Education Lahore.

17. Organized “**Two Day Workshop on computational tools in research**”& delivered lecture on thesis writing skills held on 2-3 May, 2019 at GC Women University Sialkot.
18. Attended One day Seminar on “**Nanotechnology, Research, Innovation and Scope in Pakistan**” held on 11th of November, 2019 at Department of Chemistry, GC Women University, Sialkot.
19. Attended one day training on “**Digital Library**” held on April 26, 2019 at GC Women University, Sialkot.
20. Attended “One Day Seminar on “**Gold - from jewelry to medicine**” held on 14th November, 2018 at Department of Chemistry, GC Women University, Sialkot.
21. Attended One day seminar on “**Nano chemistry**” held on 13th of April, 2018 at Department of Chemistry, GC Women University, Sialkot.
22. Attended three days workshop on “**Current Research in Chemical & Pharmaceutical Sciences**” held in January 2017, from 18th to 20th at the Department of Chemistry, Forman Christian College (A Chartered University), Lahore.
23. Attended one week course on “**Andragogical and Communication Skills**” from 02-05-16 to 06-05-16 at GC Women University, Sialkot.
24. Attended one day workshop on “**NVIVO software**” held on June 04, 2016 at GC Women University, Sialkot.
25. Attended one day workshop on “**Use of Turnitin Software and Digital Library**” held on July 04, 2016 at GC Women University, Sialkot.
26. Attended “**10th International and 22nd National Chemistry Conference**” held on November 21-23, 2011 at University of Agriculture, Faisalabad.
27. Participate and presented poster in inter universities poster competition held on 12th September 2011 at GC University, Lahore.
28. Participate in “**Two days workshop on crystallography and nanomaterials**” held on 19–21 October 2011 at GC University, Lahore.
29. Attended the 2 days workshop on Crytallography, held on 6-7 June, 2011, at GC University, Lahore.
30. Participate in inter departmental poster session held on 12th January 2011 at GC University, Lahore.
31. Attended and presented poster in “**12th International Symposium on Natural Product Chemistry**” held on November 22-25, 2010 at HEJ Research Institute of Chemistry, University of Karachi, Karachi.
32. Attended and presented poster in “**2nd International Seminar on Medicinal Plants**” held on January 14-16, 2010 at Lahore College for Women University, Lahore.
33. Attended “**National Symposium on Pharmacological Studies of Medicinal Plants**” held on June, 20, 2009 at Lahore College for Women University, Lahore.

MEMBERSHIP OF PROFESSIONAL BODIES:

1. Life-time member of the “Chemical Society of Pakistan”.
2. Life-time member of the “International Scientific Organization”.

RESEARH PUBLICATIONS

I.F: 100+

1. Iqra, Riaz, T., Shahzadi, T., Zaib, M., & Qamar, M. T. (2025). Fabrication of Novel CMC Supported MnO₂/Co₃O₄ Nanocomposite to Explore Its Potential for Treatment of MOX Contaminated Water. Polymer-Plastics Technology and Materials, 1–19. <https://doi.org/10.1080/25740881.2025.2467266> **IF=2.6 W category**
2. Tayyaba Shahzadi, Tauheeda Riaz, Sana Mansoor, Sammia Shahid, Irum Shahzadi, Mohsin Javed, Maria Zaib, Ali Bahadur, Shahid Iqbal, Sajid Mahmood, Khalid M. Alotaibi. (2025). Eco-Friendly Fabrication of Porous ZnO Nanostructures Using Araucaria heterophylla Leaf Extract for Catalytic Wastewater Treatment: A Sustainable Approach to Toxic Pollutant Removal. Microscopy Research and Technique, 2025; 0:1–13. <https://doi.org/10.1002/jemt.24834> **IF=2 W category**
3. A. Kanwal, T. Shahzadi, T. Riaz, J. Iqbal, N. S. Bedowr, Tailored rGO@Fe₃O₄ and rGO@Co₃O₄ Nanocomposites for Treatment of Organic Toxic Effluents: Modeling, Optimization, Kinetics, and Recyclability Evaluation. ChemistrySelect 2025, 10, e202404890. <https://doi.org/10.1002/slct.202404890>. **IF=1.9 W category**
4. Saira Hayat. Tayyaba Shahzadi. Tauheeda Riaz. Maria Zaib. Anam Noor Hussain, Javed Iqbal. (2025). Deciphering the mechanism for encapsulation of MOF (Fe-glutaric acid) onto Se/SnO₂ imbedded CMC

for effective aqueous sequestration of pharmaceutical pollutant via adsorption. *Environmental Monitoring and Assessment*. doi.10.1007/s10661-025-13615-4 **IF=2.9 W category ISSN # 1573-2959**

5. Almas, Tayyaba Shahzadi, Tauheeda Riaz, Maria Zaib, Mohammad Kashif Uddin. (2025). Hydrogel-based metal–organic frameworks doped into Mn/Ni oxide for the effective removal of ciprofloxacin antibiotic from water. *Water and Environment Journal* DOI: 10.1111/wej.12963 **IF=1.7 W category ISSN # 1747-6593**
6. Kanwal, A., Shahzadi, T., Riaz, T. et al. Synthesis, Characterization, and Modeling of Reduced Graphene Oxide Supported Adsorbent for Sorption of Pb(II) and Cr(VI) Ions from Binary Mixture. *Plasmonics* (2024). <https://doi.org/10.1007/s11468-024-02461-8> **I.F= 3.2 X category**
7. Tauheeda Riaz, Fatima Tahira, Sana Mansoor, Sammia Shahid, Mohsin Javed, Tayyaba Shahzadi, Ammar Zidan, İsmail Seçkin Çardaklı, Maria Zaib, Ali Bahadur, Shahid Iqbal, Sajid Mahmood, Eman Alzahrani, Abd-ElAzim Farouk, Highly operative removal of amoxicillin (AMX) from aqueous solution by MnFe₂O₄ nanoparticles and carboxy methyl cellulose (CMC) composite, *Polyhedron*, 263, 2024, 117195, ISSN 0277-5387, <https://doi.org/10.1016/j.poly.2024.117195>.
8. Amina Kanwal. Tayyaba Shahzadi. Tauheeda Riaz Sustainable Degradation of Binary Dye Mixtures using Fe/Co/rGO Nanocomposite: Dual Dye Dynamics, Adsorption and Reusability *Arabian Journal for Science and Engineering*, **IF: 3.67 W category**
9. Shahzadi, T., Bibi, H., Riaz, T. et al. Visual and Sensitive Detection of Milk Adulterant Melamine by Localized Surface Plasmon Resonance Optical Characteristics of Ag-MOF@Fe/SnO₂ Nanocomposite. *Plasmonics* (2024). <https://doi.org/10.1007/s11468-024-02333-1> **I.F= 3.2 X category**
10. Amanat, Mehwish, Shahzadi, Tayyaba, Riaz, Tauheeda, Zaib, Maria, Nawaz, Faisal, Tawfeek, Ahmed M., Khawar, Muhammad Ramzan, Park, Sung Jea and Choi, Dongwhi. "Enhanced catalytic degradation of amoxicillin by phyto-mediated synthesised ZnO NPs and ZnO-rGO hybrid nanocomposite: Assessment of antioxidant activity, adsorption, and thermodynamic analysis" *Nanotechnology Reviews*, vol. 13, no. 1, 2024, pp. 20230189. <https://doi.org/10.1515/ntrev-2023-0189> **I.F= 7.2 W category**
11. Riaz, T., Azam, R., Shahzadi, T. et al. Carbon dots and nitrogen-doped carbon dots-metal oxide nanocomposites: robust agents for effective sensing of ions. *J Mater Sci: Mater Electron* 35, 940 (2024). <https://doi.org/10.1007/s10854-024-12692-4> **I.F= 2.97 X category**
12. Maria Zaib, Kinza Shabir, Tayyaba Shahzadi, Tauheeda Riaz, Indra Neel Pulidindi. Biosynthesis of Doped Carbon Dots-Decorated MnO₂ Nanocomposites Using Eucalyptus Extract: Evaluation of Catalytic Activity *Arabian Journal for Science and Engineering*, 11 January 2024, <https://doi.org/10.1007/s13369-024-08747-7> **I.F 3.67 W category**
13. Tayyaba Shahzadi, Maria Abid, Tauheeda Riaz, Maria Zaib, Umar Farooq, Anam Noor Hussain & Sehrish Javed Kinetic studies of NiO-rGO hybrid nanocomposite for the treatment of organic toxic effluents and oxidative stress *International Journal of Environmental Analytical Chemistry* <https://doi.org/10.1080/03067319.2023.2293909> **I.F=2.6 category X**
14. Amina Kanwal , Tayyaba Shahzadi , Tauheeda Riaz, Maria Zaib , Safia Khan , M. Habila, M Sayed, and Mika Sillanpaa, Photocatalytic degradation studies of organic dyes over novel Cu/Ni loaded reduced graphene oxide hybrid nanocomposite: adsorption, kinetics and thermodynamic studies. *Molecules* 2023 28, 6474. <https://doi.org/10.3390/molecules28186474> **I.F=4.6 category W**
15. Tauheeda Riaz, Aisha Asghar, Tayyaba Shahzadi, Sammia Shahid, Sana Mansoor, Amina Asghar, Mohsin Javed, Shahid Iqbal, Mohammed T. Alotaibi, Randa A. Althobiti, Eman Alzahrani,, Abd-ElAzim Farouk, Murefah Mana Al-Anazy, Eslam B. Elkaee. Green synthesis of ZnO and Co-ZnO using Brassica rapa leave's extract and their activities as antioxidant agents, efficient adsorbents, and dye removal agents *Journal of Saudi Chemical Society* (2023) 27, 101716 **I.F=5.84 category W**
16. Maria Zaib, Ayesha Safdar, **Tayyaba Shahzadi**, Tauheeda Riaz. Enrichment of MnO₂ Nanoparticles with Different N-Doped Carbon Dots as a Robust H₂O₂ Sensor: a Comparative Study. June 2023, *Journal of Analytical Chemistry* 78(6):704-717. DOI:10.1134/S1061934823060126 **I.F: 1.237 category X**

17. Tauheeda Riaz, Soha Nayyar, **Tayyaba Shahzadi**, Maria Zaib, Sammia Shahid, Sana Mansoor, Mohsin Javed, Shahid Iqbal, Murefah Mana Al-Anazy, Eslam B. Elkaeed, Rami Adel Pashameah, Eman Alzahrani and Abd-ElAziem Farouk, The Biogenic Synthesis of Cobalt Monometallic and Cobalt–Zinc Bimetallic Nanoparticles Using Cymbopogon citratus L. Leaf Extract and Assessment of Their Activities as Efficient Dye Removal and Antioxidant Agents. Agronomy 12, 2022 doi.org/10.3390/agronomy12102505 **IF 3.94** category X
18. **Tayyaba Shahzadi**, Shazia Iqbal, Tauheeda Riaz & Maria Zaib A comparative study based on localized surface plasmon resonance optical characteristics of green synthesized nanoparticles towards spectrophotometric determination of cupric ions, Journal of Taibah University for Science. 2022, Vol 16(1), 1912-922. <https://doi.org/10.1080/16583655.2022.2123206> **IF 3.459** category X.
19. Tauheeda Riaz, Ansa Munnwar, **Tayyaba Shahzadi**, Maria Zaib, Sammia Shahid, Mohsin Javed, Shahid Iqbal, Komal Rizwan, Muhammad Waqas, Bilal Khalid, Nasser S Awwad, Hala A Ibrahim, Majed A Bajaber, Phyto-mediated Synthesis of Nickel Oxide (NiO) Nanoparticles Using Leaves' Extract of Syzygium cumini for Antioxidant and Dyes Removal studies from wastewater, Inorganic Chemistry Communications 142(1):109656, 2022 DOI:10.1016/j.inoche.2022.109656 **IF=2.39** category X
20. Tauheeda Riaz, Nabila Assey, Mohsin Javed, **Tayyaba Shahzadi**, Maria Zaib, Sammia Shahid, Shahid Iqbal, Eslam B Elkaeed, Rami M Alzhani, Hashem O Alsaab, Nasser S Awwad, Hala A Ibrahim, Urooj Fatima, Biogenic plant mediated synthesis of monometallic zinc and bimetallic Copper/Zinc nanoparticles and their dye adsorption and antioxidant studies. Inorganic Chemistry Communications, Volume 140, 2022, 109449 <https://doi.org/10.1016/j.inoche.2022.109449> **IF=2.39** category X
21. Maria Zaib, Tabinda Malik, Naeem Akhtar, **Tayyaba Shahzadi**, Sensitive Detection of Sulphide Ions Using Green Synthesized Monometallic and Bimetallic Nanoparticles: Comparative Study, Waste and Biomass Valorization volume 13, pages2447–2459 (2022)
22. Tayyaba Shahzadi, Asma Anwaar, Tauheeda Riaz & Maria Zaib Sulfate and phosphate ions removal using novel nano-adsorbents: modeling and optimization, kinetics, isotherm and thermodynamic studies, INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, <https://doi.org/10.1080/15226514.2022.2040421> **IF=4.003**
23. M Zaib, A Sarfaraz, N Akhtar, **T Shahzadi**, Sensitive determination of Cu (II) ions using different doped carbon dot and silver nanocomposites: comparative study, International Journal of Environmental Science and Technology volume 19, 9861–9872 (2022). **IF=1.065**
24. **Tayyaba Shahzadi**, Saima Sanaullah, Tauheeda Riaz, Maria Zaib, Amina Kanwal. Hifzah Jabeen, Kinetics and thermodynamic studies of organic dyes removal on adsorbent developed from *Viola tricolor* extract and evaluation of their antioxidant activity. Environment, Development and Sustainability. 2021 <https://doi.org/10.1007/s10668-021-01421-0> **IF=4.080**
25. Maria Zaib, Misbah Jamil, **Tayyaba Shahzadi** & Umar Farooq, Ultrasonic green synthesis of different nickel nanoparticles and their application in Cr(VI) removal studies Ultrasonic green synthesis of different nickel nanoparticles and their application in Cr(VI) removal studies, Inorganic and Nano-Metal Chemistry, 2021, DOI:10.1080/24701556.2021.1983836 **IF=3.219**
26. Maria Zaib, Ammam Akhtar, Faseeha Maqsood & **Tayyaba Shahzadi**, Green Synthesis of Carbon Dots and Their Application as Photocatalyst in Dye Degradation Studies Arabian Journal for Science and Engineering 2020 <https://doi.org/10.1007/s13369-020-04904-w> **IF=1.518**
27. **Tayyaba Shahzadi**, Amina Kanwal, Tauheeda Riaz, Hifzah Jabeen, Maria Zaib, Eco-friendly synthesis of silver nanoparticles using *Gazania rigens* and evaluation of activities. Environmental Engineering and Management Journal, (2021), 20 (1), 43-52. **IF: 1.186**

28. Maria Zaib, Amna Arshad, Saira Khalid & **Tayyaba Shahzadi**, One pot ultrasonic plant mediated green synthesis of carbon dots and their application invisible light induced dye photocatalytic studies: a kinetic approach International Journal of Environmental Analytical Chemistry 2021
0.1080/03067319.2021.1934463 **IF: 2.826 W**
29. **Tayyaba Shahzadi**, Sidra Rehman, Tauheeda Riaz and Maria Zaib, Eco-friendly synthesis of ZnO nanoparticles using *Cannabis sativa* and assessment of its activities as efficient dyes removal and antioxidant agent. International Journal of Environmental Analytical Chemistry.
<https://doi.org/10.1080/03067319.2020.1789610> **IF= 2.826**
30. Tauheeda Riaz, Palwasha Mughal, **Tayyaba Shahzadi**, Sammia Shahid and Muhammad Athar Abbasi Green synthesis of silver nickel bimetallic nanoparticles using plant extract of *Salvadora persica* and evaluation of their various biological activities, Mater. Res. Express 6 (2019) 1250k3 <https://doi.org/10.1088/2053-1591/ab74f> **IF=1.5**
31. Maria Zaib, **Tayyaba Shahzadi**, Irfa Muzammal & Umar Farooq, *Catharanthus roseus* extract mediated synthesis of cobalt nanoparticles: evaluation of antioxidant, antibacterial, hemolytic and catalytic activities. Inorganic and Nano-Metal Chemistry <https://doi.org/10.1080/24701556.2020.1737819> **IF=0.685**
32. **T. Shahzadi**, M. Zaib, T. Riaz, S. Shehzadi, M. A. Abbasi, M. Shahid. Synthesis of Eco-friendly Cobalt Nanoparticles Using *Celosia argentea* Plant Extract and Their Efficacy Studies as Antioxidant, Antibacterial, Hemolytic and Catalytical Agent. Arab. J. Sci. Eng.
<https://doi.org/10.1007/s13369-019-03937-0> **IF=1.58**
33. T Riaz, M A Abbasi, **T Shahzadi**, Aziz ur Rehman and M Shahid. Bioprospecting of *Fumaria indica*, *Dicliptera bupleuroides* and *Curcuma zedoaria* for Their Antimicrobial and Hemolytic Effects. Pak. J. Pharm. Sci., 32 (2): 697-702, (2019). **IF=0.76**
34. **T. Shahzadi**, T Riaz, M A Abbasi, F. Mazhar, M. Shahid, M. Ajaib. Wendlandia exserta: A pertinent source of antioxidant and antimicrobial agent. T. J. Biochem., 43(4): 43(4):456-453,(2018). **IF=0.76**
35. Muhammad Athar Abbasi, **Tayyaba Shahzadi**, Aziz-ur-Rehman, I and Viqar Uddin Ahmad. New iridoid glucosides from *caryopteris odorata* with suitable antioxidant potential. *Chemistry of Natural Compounds*, 50 (5), 836-841(2014). **IF= 0.51.**
36. **T Shahzadi**, M A Abbasi, T Riaz, Aziz-Ur-Rehman, K M Khan, M Ashraf, I Afzal, M N Akhtar and M Ajaib. Antioxidant and lipoxygenase inhibiting new iridoid glucosides from *Caryopteris odorata*. *Nat. Prod. Res.*, 27, 302-313 (2013). **IF=0.92**
37. **T Shahzadi**, M A Abbasi, Aziz-Ur-Rehman, T Riaz, K M Khan, M Ashraf, I Afzal and M N Akhtar. Synthesis of some *O*-substituted derivatives of natural 6-hydroxymethyl-4-methoxy-2H-pyran-2-one (opuntiol). *J. Chem. Soc. Pak.*, 35(2), 396-403(2013). **IF=0.28**
38. T Riaz, M A Abbasi, Aziz-ur-Rehman, **T Shahzadi**, K M Khan, M Ashraf and S A Ejaz. Synthesis of some 4'-*O* substituted derivatives of natural naringin and their biological screening. *Asian. J. Chem.*, **25** (4), 1927-1933 (2013). **IF= 0.20**
39. M A Abbasi, K Rubab, T Riaz, **T Shahzadi**, A Rehman, M Khalid and M Ajaib. In vitro assessment of relief to oxidative injury by different fractions of *Boerhaavia procumbens*. *Pak. J. Pharm. Sci.*, **25**(2), 357-364 (2012). **IF=0.947**
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