

## Dr. Hayat Ullah

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Number of Publications: **144**  
Number of Edited Book: **01**  
Number of Book Chapters: **10**  
Total Impact Factor: **327.428**  
Impact Factor according to JCR: **318.569**  
Number of Citations: **3284**  
*h*-index: **35**  
*i*10-index: **63**

<b>PERSONAL INFORMATION</b>	Father Name: Aqal Din Date of Birth: 10 April, 1984 Nationality: Pakistani
<b>ACADEMIC</b>	<b>Ph.D. Organic Chemistry</b> Oct 2014 – July 2018. Department of Chemistry, Hazara University, Mansehra, KP, Pakistan. <b>Thesis Title:</b> <i>“Synthesis and Biological Evaluation of Thiazole, Oxadiazole and Indole Derivatives”</i>
	<b>M. Phil. Organic Chemistry</b> Feb 2012 – Jun 2014. Department of Chemistry, Hazara University, Mansehra, KP, Pakistan. <b>Thesis Title:</b> <i>“Synthesis and Biological Evaluation of Thiazole Derivatives as Potential Biological Agents”</i>
	<b>Bachelor of Education (B.Ed)</b>

	<p>July 2009-July 2010. University of Peshawar, KP, Pakistan. Grade/Div. 2<sup>nd</sup></p> <p><b><u>M. Sc Organic Chemistry</u></b></p> <p>Nov 2005- Nov 2007. Kohat University of Science &amp; Technology, Kohat, KP, Pakistan. Grade/Div. 1<sup>st</sup></p> <p><b><u>B. Sc</u></b></p> <p>Sep 2003- Oct 2005. University of Peshawar, KP, Pakistan. Grade/Div. 1<sup>st</sup></p> <p><b><u>HSSC (Pre-Medical)</u></b></p> <p>Sep 2001- Aug 2003. BISE Peshawar, KP, Pakistan. Grade/Div. 1<sup>st</sup></p> <p><b><u>SSC (Science)</u></b></p> <p>Apr 1999- Jun 2001. BISE Peshawar, KP, Pakistan. Grade/Div. 1<sup>st</sup></p>
<b>TEACHING EXPERIENCE</b>	<ul style="list-style-type: none"> <li>❖ Currently working as visiting Assistant professor in Department of Chemistry, University of Okara, Pakistan.</li> <li>❖ One year experience as Assistant professor (IPFP) in Department of Chemistry, University of Okara, Pakistan.</li> <li>❖ Three years teaching experience as Science Teacher in Working Forks grammar higher Secondary School Kohat-1, Kohat.</li> <li>❖ One-year experience as internee in Directorate of colleges, Khyber Pakhtunkhwa, Peshawar under the National Internship Program.</li> </ul>
<b>COURSES TAUGHT</b>	<p>Organic Spectroscopy (3 Cr.Hr. Course) Level BS. Heterocyclic Chemistry (4 Cr.Hr. Course) Level BS. Fuel Chemistry (4 Cr.Hr. Course) Level BS &amp; M. Sc Research Methodology (3 Cr.Hr. Course) Level BS. Organic Synthesis (3 Cr.Hr. Course) level BS Organic Chemistry-I (4 Cr.Hr. Course) level BS Environmental Chemistry (3 Cr.Hr. Course) Level BS</p>
<b>RESEARCH INTEREST</b>	<ul style="list-style-type: none"> <li>❖ Synthesis of Bioactive Compounds</li> <li>❖ Developing new methodologies in Synthetic Organic Chemistry</li> <li>❖ Asymmetric Synthesis</li> </ul>
<b>PROJECT</b>	<ul style="list-style-type: none"> <li>❖ A Coherent Approach for discovering new anti-Alzheimer's agents (Acetylcholinesterase and Butyrylcholinesterase inhibitors) based on indole bearing oxadiazole Scaffolds. (<b>PKR 1,000,000/-</b>)</li> </ul>
<b>AWARDS AND HONOURS</b>	<ul style="list-style-type: none"> <li>❖ Associate Fellowship, Advance HE, UK. 2022</li> <li>❖ HEC Approved Supervisor, 2020</li> <li>❖ Startup Research Grant Program, NAHE (Higher Education</li> </ul>

	<p>Commission), 2021, National</p> <ul style="list-style-type: none"> <li>❖ National Faculty Development Program, NAHE (Higher Education Commission), 2020, National</li> <li>❖ Fundamentals of Project Management, NAHE (Higher Education Commission), 2021, National</li> <li>❖ ACS REVIEWER LAB, Certificate of Completion awarded by AMERICAN CHEMICAL SOCIETY, 2020, International</li> </ul>
<b>EDITOR OF THE JOURNALS</b>	<ul style="list-style-type: none"> <li>❖ Discovery Biotechnology (Springer Nature Journal)</li> </ul>
<b>REVIEWER OF THE JOURNALS</b>	<ul style="list-style-type: none"> <li>❖ All Journals of American Chemical Society-----International</li> <li>❖ Scientific Reports (Nature)-----International</li> <li>❖ Bioorganic Chemistry (Elsevier)-----International</li> <li>❖ MDPI Journal Medicina-----International</li> <li>❖ MDPI Journal Molecules-----International</li> <li>❖ MDPI Journal Pharmaceutical-----International</li> <li>❖ MDPI Journal Applied Sciences-----International</li> <li>❖ MDPI Journal of Personalized Medicine-----International</li> <li>❖ MDPI Journal Cell-----International</li> <li>❖ MDPI Journal Life-----International</li> <li>❖ MDPI Journal Healthcare-----International</li> <li>❖ Future Medicinal Chemistry-----International</li> <li>❖ Chemistry Africa-----International</li> <li>❖ Chemical Papers-----International</li> <li>❖ Mediterranean Journal of Chemistry-----International</li> <li>❖ Biochemistry and Molecular Biology-----International</li> </ul>
<b>MEMBERSHIP</b>	<ul style="list-style-type: none"> <li>❖ International Parkinson and Movement disorder Society, Lifetime, Membership Id (99096), 2021, International</li> <li>❖ American Society of Microbiology, Lifetime Membership, 2022, International</li> <li>❖ Primary Care Diabetes Society, Lifetime Membership, 2021, International</li> </ul>
<b>CONFERENCES PARTICIPATED AS INVITED SPEAKER</b>	<ul style="list-style-type: none"> <li>❖ 2<sup>nd</sup> International Conference on Innovation in Chemical and Allied Sciences (Oct 26-28, 2021) organized by Department of Chemistry, The Women University Multan-Pakistan.</li> </ul>
<b>SYMPOSIUM PARTICIPATED AS ORGANIZER</b>	<ul style="list-style-type: none"> <li>❖ International Symposium on Innovation Research Ideas in Chemical and Material Sciences, organized by Department of Chemistry, University of Okara, Dec 13, 2021.</li> <li>❖ 2<sup>nd</sup> International Symposium on Recent Research Trends in Chemistry, organized by Department of Chemistry, University of Okara, Feb 18, 2022.</li> </ul>

<p><b>ONLINE SYMPOSIUM/ CONFERENCE/ CONGRESS AND WORKSHOP PARTICIPATED</b></p>	<ul style="list-style-type: none"><li>❖ Online “<b>MDS 1<sup>st</sup> Movement Disordered Clinical Practice Conference –Education</b>” on November 19, 2021, 21MDCPC-EDU-001-99096.</li><li>❖ Webinar on “<b>Open Science: A multifaceted framework to improve science and health outcomes</b>” at Indian Council of Medical Research, on Friday 29 October, 2021</li><li>❖ Webinar on “<b>Host Pathogen Interactions</b>”, Organized by Department of Plant Pathology, Faculty of Agriculture and Environment, IUB and Pakistan Phytopathological society, 15<sup>th</sup> July, 2021.</li><li>❖ Webinar series on COVID-19 PANDEMIC AND ROLE OF MICROBIOLOGIST, <b><u>Topic: Impact of COVID-19 Pandemic on Education and Tourism in Gilgit Baltistan</u></b>, Organized by American Society for Microbiology, 30<sup>th</sup> June 2021.</li><li>❖ Webinar series on COVID-19 PANDEMIC AND ROLE OF MICROBIOLOGIST, <b><u>Topic: Update on COVID-19 Pandemic: Importance of Training and Biorisk Management</u></b>, Organized by American Society for Microbiology, 16<sup>th</sup> June 2021.</li><li>❖ <b>Fourth International Conference on Bioscience (ICBS-2021)</b>, Organized by Biological Society of Pakistan (BSP) in collaboration with Department of Plant Sciences, Quaid-e-Azam University Islamabad on 15<sup>th</sup> June 2021.</li><li>❖ Webinar series on <b>CORONAVIRUS VACCINATION IN PAKISTAN: MYTHS AND REALITIES</b> Organized by American Society for Microbiology (ASM) and Karachi University Teachers Forum (KUTF), 7<sup>th</sup> June 2021.</li><li>❖ <b>Virtual Asian and Oceanian Parkinson’s disease and Movement Disorders Congress</b> on June 4-6, 2021, Organized by International Parkinson and Movement Disorder Society.</li><li>❖ 1<sup>st</sup> International Webinar “<b>Global Trends in Combating Environmental and Agricultural Issues</b>”, organized by Department of Environmental Sciences, University of Okara, 5<sup>th</sup> June 2021.</li><li>❖ Webinar series on COVID-19 PANDEMIC AND ROLE OF MICROBIOLOGIST, <b><u>Topic: The Story of Microbiology and ASM in Pakistan</u></b>, Organized by American Society for Microbiology, 2<sup>nd</sup> June 2021.</li><li>❖ Webinar series on COVID-19 PANDEMIC AND ROLE OF MICROBIOLOGIST, <b><u>Topic: COVID-19: Transitioning Towards a New Normal</u></b>, Organized by American Society for Microbiology, 26<sup>th</sup> May 2021.</li></ul>
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	<ul style="list-style-type: none"> <li>❖ Webinar series on COVID-19 PANDEMIC AND ROLE OF MICROBIOLOGIST, <b><u>Topic: Understanding COVID-19 Antibody Tests</u></b>, Organized by American Society for Microbiology, 19<sup>th</sup> May 2021.</li> <li>❖ <b>AASSA-PAS Webinar Series 2021</b>, Webinar II, Pandemic Preparedness, one Health: Lesson Learnt, Organized by Associations of Academies and Societies of Science in Asia, 4<sup>th</sup> May 2021.</li> <li>❖ Webinar series on COVID-19 PANDEMIC AND ROLE OF MICROBIOLOGIST, <b><u>Topic: Current COVID-19 Situation: India vs Pakistan</u></b>, Organized by American Society for Microbiology, 28<sup>th</sup> April 2021.</li> <li>❖ Webinar series on COVID-19 PANDEMIC AND ROLE OF MICROBIOLOGIST, <b><u>Topic: Covid-19: Vaccine and Vaccination</u></b>, Organized by American Society for Microbiology, 7<sup>th</sup> April 2021.</li> <li>❖ Webinar series on COVID-19 PANDEMIC AND ROLE OF MICROBIOLOGIST, <b><u>Topic: Covid-19: Available lab test, Interpretation and Misunderstanding</u></b>, Organized by American Society for Microbiology, 31<sup>st</sup> March 2021.</li> <li>❖ Webinar series on COVID-19 PANDEMIC AND ROLE OF MICROBIOLOGIST, <b><u>Topic: Covid-19 Variants: What's the concern?</u></b>, Organized by American Society for Microbiology, 24<sup>th</sup> March 2021.</li> <li>❖ Webinar series on <b>COVID-19 PANDEMIC AND ROLE OF MICROBIOLOGIST</b>, Organized by American Society for Microbiology, 17<sup>th</sup> March 2021.</li> <li>❖ Elsevier-HEC Workshop on Journal Indexing in Scopus, January 21, 2021</li> <li>❖ Two-Day International Training-Workshop on Scientific Paper and Patent Writing, December 14-15, 2020, Organized by Islamic World Education Scientific and Cultural Organization ICESCO, Kingdom of Morocco, Rabat.</li> <li>❖ 18<sup>th</sup> Annual World Congress Insulin Resistance Diabetes &amp; Cardiovascular Disease, December 3-6, 2020.</li> <li>❖ 1<sup>st</sup> International Symposium on Current Trends and Future Perspectives in Botanical Research, November 10, 2020, organized by Department of Botany, University of Okara, Okara.</li> <li>❖ One-day International Online Symposium on Recent Research Trends in Chemistry, September 10, 2020, organized by Department of Chemistry, University of Okara, Okara.</li> </ul>
<p><b>CONFERENCES PARTICIPATED</b></p>	<ul style="list-style-type: none"> <li>❖ 1<sup>st</sup> National Conference on Recent Innovation in Medicinal Chemistry</li> </ul>

	<p>and Biochemistry (February 20-22, 2018) organized by Department of chemistry, University of Science and Technology Bannu, KP, Pakistan in collaboration with HEC, Pakistan.</p> <ul style="list-style-type: none"> <li>❖ 27<sup>th</sup> National and 15<sup>th</sup> International Chemistry Conference (August 22-25, 2016) Jointly Organized by Department of Chemistry, University of Malakand and HEC under the Auspices of the Chemical Society of Pakistan.</li> <li>❖ Three days Chemistry Conference, (Nov 26-28, 2013) organized by Department of Chemistry, Hazara University Mansehra, KP, Pakistan under the auspices of Higher Education Commission of Pakistan and Pakistan Science Foundation.</li> </ul>		
<b>WORKSHOP</b>	<ul style="list-style-type: none"> <li>❖ Two-day workshop on Nanomaterial research, Fabrications and Applications (12, 13 October 2017) organized by Department of Chemistry Hazara University, Mansehra, KP, Pakistan.</li> </ul>		
<b>REFERENCES</b>	<ul style="list-style-type: none"> <li>❖ <b>Dr. Fazal Rahim</b> Associate Professor Department of Chemistry, Hazara University, Mansehra-Pakistan Email: <a href="mailto:fazalstar@gmail.com">fazalstar@gmail.com</a></li> <li>❖ <b>Dr. Mohsan Nawaz</b> Professor Department of Chemistry, Hazara University, Mansehra-Pakistan Email: <a href="mailto:mohsannawaz@hotmail.com">mohsannawaz@hotmail.com</a></li> </ul>		
<b>Co-Supervision of M. Phil Students</b>			
<b>S. No</b>	<b>Student Name</b>	<b>Topic</b>	<b>Remarks</b>
1.	Uzma Bibi	Synthesis and Biological Evaluation of Indole Derivatives	Completed
2.	Mehvish Jabeen	Synthesis and Biological Evaluation of Thiazole Derivatives	Completed
3.	Fatima Fayyaz	Synthesis and Biological Evaluation of Oxadiazole Analogues	Completed
4.	Nida Nasir Khan	Synthesis and Biological Evaluation of Indole bearing sulfonamide analogues	Completed
5.	Tayyaba Batool	Synthesis and Biological Evaluation of benzimidazole bearing sulfonamide analogues	Completed
6.	Aamir Majeed	Synthesis and Biological Evaluation of benzimidazole	Completed

		bearing thiourea analogues	
<b>Co-Supervision of MSc Students</b>			
1.	Ayesha Nawaz	Synthesis and Biological Evaluation of Benzimidazole Bearing Schiff Base Analogues	Completed
2.	Saman Maqsood	Synthesis and Biological Evaluation of Thiazole Bearing Sulfonamide Analogues	Completed
3.	Ghazala Arshad	Synthesis and Biological Evaluation of <i>Bis</i> -indole Bearing Sulfonamide Analogues	Completed
4.	Nadia Nadeem	Synthesis and Biological Evaluation of Thiadiazole Bearing Sulfonamide Analogues	Completed
5.	Muhammad Waseem Aslam	Synthesis and Biological Evaluation of Oxadiazole Bearing Sulfonamide Analogues	Completed
<b>Co-Supervision of BS Student</b>			
1.	Aisha Rab Nawaz	Synthesis and Biological Evaluation of Thiazole Bearing Thiourea Analogues	Completed
<b>PUBLICATIONS</b>			
<b>EDITED BOOK</b>			
Understanding the Risks, Mitigation, and Safety Measures Involved in Food Contamination. 2024 (Cambridge Scholars Publishing)			
<b>BOOK CHAPTERS</b>			
1. Muhammad Nabi, Hafiza Urwa, Arinah Muteen, Islam Ashfaq and <b>Hayat Ullah</b> . Contaminants in Food: Sources, Influences, and Protective Measures. <i>Understanding the Risks, Mitigation, and Safety Measures Involved in Food Contamination</i> . 2024, p. 1-15. (Cambridge Scholars Publishing)			
2. Huma Nawaz, Iftikhar Ali, Ayesha Nawaz, Muhammad Nabi and <b>Hayat Ullah</b> . Food Contaminants Classification. <i>Understanding the Risks, Mitigation, and Safety Measures Involved in Food Contamination</i> . 2024, p. 16-35. (Cambridge Scholars Publishing)			
3. Motia Irshad, Aqsa Younas, Shaheed Ullah and <b>Hayat Ullah</b> . Mineral and Mineral Oil Contamination of Food. <i>Understanding the Risks, Mitigation, and Safety Measures Involved in Food Contamination</i> . 2024, p. 62-88. (Cambridge Scholars Publishing)			
4. Muhammad Nabi, Ayesha Nawaz, Huma Nawaz, Ayesha Saddiqa, Zobia Noreen and <b>Hayat Ullah</b> . Environmental Contaminants in Food. <i>Understanding the Risks, Mitigation, and Safety Measures Involved in Food Contamination</i> . 2024, p. 89-112. (Cambridge Scholars Publishing)			
5. Rashid Iqbal, Arinah Muteen, Zeeshan Ulfat, Muhammad Nabi and <b>Hayat Ullah</b> . Agrochemicals Role in Contamination. <i>Understanding the Risks, Mitigation, and Safety Measures Involved in Food Contamination</i> . 2024, p. 297-325. (Cambridge Scholars Publishing)			

6. Maliha Sarfraz and **Hayat Ullah**. Molecular Basis of Cancer. *Fundamentals of Cellular and Molecular Biology*. 2024, p. 143-155. (Bentham Science Publishers)
7. Maliha Sarfraz, Sanaullah Sajid and **Hayat Ullah**. Molecular Basis of the Human Immunodeficiency Virus. *Fundamentals of Cellular and Molecular Biology*. 2024, p. 212-224. (Bentham Science Publishers)
8. Maliha Sarfraz, Rahman M. Hafizur, **Hayat Ullah**, Sanaullah Sajid, Rana Waseem Akhtar, Mamoon Noreen, Shazia Perveen and Misbah Ullah Khan. Current Strategies of New Drugs for Diabetes Management. *Frontiers in Clinical Drug Research-Diabetes and Obesity*. 2023, vol.7, p. 22-47. (Bentham Science Publishers)
9. **Hayat Ullah**, Maliha Sarfraz, Misbah Ullah Khan and Munzer Ullah. Chemosensor in Glucose Monitoring, Advances and Challenges. *Frontiers in Clinical drug Research-Diabetes & Obesity*. 2021, Vol. 6, p. 72-97. (Bentham Science Publishers)
10. Maliha Sarfraz, **Hayat Ullah**, Ghulam Nabi, Muhammad Asif Raza, Rashid Iqbal and Shaheed Ullah. *Curcuma Longa* as Dietary Supplement and Diabetes Mellitus: Evidence from Experimental Studies. *Frontiers in Clinical drug Research-Diabetes & Obesity*. 2021, Vol. 6, p. 145-169. (Bentham Science Publishers)

#### ARTICLE IN ACADEMIC JOURNALS

1. Muhammad Shahid Nadeem, Shawkat Hayat, Fazal Rahim, Jalaluddin Azam Khan, **Hayat Ullah**, Muhammad Taha, Gaurav Gupta, Abdul Wadood, Syed Adnan Ali Shah, Imran Kazmi, Saima Iftikhar, Khushi Muhammad. Synthesis, biological evaluation, molecular docking and dynamic simulation of novel benzofuran derivatives as potential agents against Alzheimer's disease. *Journal of Molecular Structure*. 1322 (2025) 140279. (IF = 4)
2. Tehmina Khan, Ali Umar, Zakia Subhan, Muhammad Saleem Khan, Hafeeza Zafar Ali, **Hayat Ullah**, Sabeen Sabri, Muhammad Wajid, Rashid Iqbal, Mashooq Ahmad Bhat, Hamid Ali. Therapeutic Potential of Novel Silver Carbonate Nanostructures in Wound Healing and Antibacterial Activity Against *Pseudomonas chengduensis* and *Staphylococcus aureus*. *Pharmaceuticals*. 17 (2024) 1471. (IF = 4.3)
3. Mohamed S Othman, Rafaqat Hussain, Fazal Rahim, **Hayat Ullah**, Shoaib Khan, Muhammad Taha, Mohamed A Fareid, Anas T Altaleb, Shima M Aboelnaga, Syed Adnan Ali Shah. Synthesis, biological and computational evaluation of benzoxazole hybrid analogs as potential anti-Alzheimer's agents. *Future Medicinal Chemistry*. 16 (2024) 2013–2023. (IF = 3.2)
4. Tayyiba Iqbal, Shoaib Khan, Fazal Rahim, Muhammad Tayyab, Rafaqat Hussain, Yousaf Khan, Zanib Fiaz, Shanza Bibi, **Hayat Ullah**, Abdullah Yahya Abdullah Alzahrani, Alhafez M. Alraih. Insights into the role of potent thiadiazole based Schiff base derivatives in targeting type-II diabetes: A combine in-vitro and in-silico approaches. *Journal of Molecular Structure*. 1321 (2024) 140000. (IF = 4)
5. Abdullah Yahya Abdullah Alzahrani, **Hayat Ullah**, Fazal Rahim, Alhafez M. Alraih, Shoaib Khan, Amjad Hussain, Rafaqat Hussain, Naveed Iqbal, Faisal Nawaz. Synthesis, Biological Evaluation and in silico Molecular Modelling Studies of Chloro Substituted Bis-Indole



- Containing Benzohydrazide Analogues as Potential Anti-diabetic and Anti-Alzheimer's Agents. Journal of Molecular Structure. 1316 (2024) 138908. **(IF = 4)**
6. Sundas Tariq, Fazal Rahim, **Hayat Ullah**, Maliha Sarfraz, Rafaqat Hussain, Shoaib Khan, Misbah Ullah Khan, Wajid Rehman, Amjad Hussain, Mashooq Ahmad Bhat, Muhammad Kamran Farooqi, Syed Adnan Ali Shah, Naveed Iqbal. Synthesis, In Vitro Biological Evaluation and Molecular Modeling of Benzimidazole-Based Pyrrole/Piperidine Hybrids Derivatives as Potential Anti-Alzheimer Agents. Pharmaceuticals. 17 (2024) 410. **(IF = 4.3)**
  7. Abdullah Yahya Abdullah Alzahrani, **Hayat Ullah**, Fazal Rahim, Fahad Khan, Abdul Wadood, Muhammad Taha, Amal Al-Bagawi, Mohamed Fareid, Mohamed S. Othman. Synthesis, in vitro biological evaluation and in silico molecular docking study of hydroxy-quinoline based sulfonohydrazide derivatives as potential acetylcholinesterase and butyrylcholinesterase inhibitors. Journal of Molecular Structure. 1306 (2024) 137884. **(IF = 4)**
  8. Muhammad Taha, Sadaf Jamal Gilani, Imran Kazmi, Fazal Rahim, Bushra Adalat, **Hayat Ullah**, Faisal Nawaz, Abdul Wadood, Zarshad Ali, Syed Adnan Ali Shah, Khalid Mohammed Khan. Synthesis, biological evaluation and molecular docking study of indazole based Schiff base analogues as new anti-diabetic inhibitors. Journal of Molecular Structure. 1300 (2024) 137189. **(IF = 4)**
  9. Abdullah Yahya Abdullah Alzahrani, **Hayat Ullah**, Mashooq Ahmad Bhat, Fazal Rahim, Esam Omar Al-Wesabi, Tahani Y.A. Alanazi. Design, synthesis, in vitro acetylcholinesterase, butyrylcholinesterase activities, and in silico molecular docking study of oxindole-oxadiazole hybrid analogues. Journal of Molecular Structure. 1299 (2024) 137167. **(IF = 4)**
  10. Abdullah Yahya Abdullah Alzahrani, Bushra Adalat, **Hayat Ullah**, Muhammad Taha, Mohamed S. Othman, Mohamed A. Fareid, Azza M. Khaled, Fazal Rahim. Design, synthesis, in vitro urease inhibitory potentials and in silico molecular docking study of benzimidazole bearing thiosemicarbazides/sulfonamide Analogues. Journal of Molecular Structure. 1296 (2024) 136850. **(IF = 4)**
  11. Haseena Naz, Mohamed S. Othman, Fazal Rahim, Rafaqat Hussain, Shoaib Khan, Muhammad Taha, Mohamed M. Hafez, Lina JM Abdel-Hafez, **Hayat Ullah**, Ihsan Ullah Khan, Yousaf Khan, Syed Adnan Ali Shah. Investigation of novel benzimidazole-based indole/thiazole hybrids derivatives as effective anti-diabetics and anti-Alzheimer's agents: Structure-activity relationship insight, in vitro and in silico approaches. Journal of Molecular Structure. 1312 (2024) 138592. **(IF = 4)**
  12. Zarif Gul, Sikandar Khan, Shaheed Ullah, **Hayat Ullah**, Misbah Ullah Khan, Munzer Ullah & Ataf Ali Altaf. Recent Development in Coordination Compounds as a Sensor for Cyanide Ions in Biological and Environmental Segments. Critical Reviews in Analytical Chemistry, 54 (2024) 508-528. **(IF = 4.2)**
  13. Zarif Gul, Shaheed Ullah, Sikandar Khan, **Hayat Ullah**, Misbah Ullah Khan, Munzer Ullah, Shujat Ali & Ataf Ali Altaf. Recent Progress in Nanoparticles Based Sensors for the

- Detection of Mercury (II) Ions in Environmental and Biological Samples. *Critical Reviews in Analytical Chemistry*, 54 (2024) 44-60. (IF = 4.2)
14. Ali Umar, Muhammad Saleem Khan, Muhammad Wajid, **Hayat Ullah**. Biocompatibility, Antimicrobial Efficacy, and Therapeutic Potential of Cobalt Carbonate Nanoparticles in Wound Healing, Sex Hormones, and Metabolic Regulation in Diabetic Albino Mice. *Biochemical and Biophysical Research Communications*. 734 (2024) 150773. (IF = 2.5)
15. **Hayat Ullah**, Imad Uddin, Hafeeza Zafar Ali, Wagma Hassan, Gul Mehnaz, Laiba Maryam, Maliha Sarfraz, Muhammad Saleem Khan, Mohammad Shahidul Islam, Zainab M. Almarhoon, Rashid Iqbal, Muhammad Nabi. A promising  $\alpha$ -glucosidase and  $\alpha$ -amylase inhibitors based on benzimidazole-oxadiazole hybrid analogues: Evidence based in vitro and in silico studies. *Results in Chemistry*. 11 (2024) 101832. (IF = 2.5)
16. Ghadah Aleid, Shahzad Ahmad Abbasi, **Hayat Ullah**, Reda Abdel-Hameed, Asmaa Hegazy, Gul Mehnaz, Eshraqa Ali, Sumayyah Al-Marshedy, Anoud AlShammari, Fazal Rahim, Hidayat Ullah Khan, Shoaib Khan, Rashid Iqbal, Zeeshan Niaz, Muhammad Taha. Design, synthesis, biological evaluation and molecular docking study of thiadiazole-isatin hybrid analogues as potential anti-diabetic and anti-bacterial agents. *Results in Chemistry*. 11 (2024) 101805. (IF = 2.5)
17. Zaineb Amjid, Shoaib Khan, Tayyiaba Iqbal, Rafaqat Hussain, Hafeeza Zafar Ali, Khurram Shoaib, Yousaf Khan, **Hayat Ullah**, Sabeen Arshad, Rashid Iqbal, Riaz Ullah, Essam A. Ali. Synthesis, confirmations and biological evaluation of acid substituted Schiff base Derivatives: Unraveling insight through SAR, DFT, ADMET and molecular docking. *Results in Chemistry*. 11 (2024) 101744. (IF = 2.5)
18. Ghadah Aleid, Muhammad Imran, **Hayat Ullah**, Muhammad Taha, Javed Khan, Fazal Rahim, Amjad Hussain, Anoud Al-Shammari, Sumayyah Al-Marshedy, Wael Ahmed, Rashid Iqbal, Reda Abdel-Hameed. Design, synthesis, in vitro bio-evaluation and in silico molecular docking study of benzohydrazide based thiourea analogues. *Results in Chemistry*. 11 (2024) 101756. (IF = 2.5)
19. Mohamed S. Othman, Haseena Naz, Fazal Rahim, **Hayat Ullah**, Rafaqat Hussain, Muhammad Taha, Shoaib Khan, Mohamed A. Fareid, Shima M. Aboelnaga, Anas T. Altaleb, Rashid Iqbal, Syed Adnan Ali Shah. New Cholinesterase inhibitors based on 1,2,4-triazole bearing benzenesulfonohydrazide skeleton: Synthesis, *in vitro* and *in silico* studies. *Results in Chemistry*. 10 (2024) 101717. (IF = 2.5)
20. Shoaib Khan, Tayyiaba Iqbal, Yousaf Khan, Rafaqat Hussain, Muhammad Saleem Khan, **Hayat Ullah**, Tayyaba Zahoor, Zanib Fiaz, Muhmmad Siraj, Rashid Iqbal, Alanood S. Algarni, Lena W.M. Abdelmageed. Experimental and computational pharmacological approaches decoding the anti-diabetic molecular mechanism of indole based triazole bearing sulfonothioate derivatives. *Results in Chemistry*. 10 (2024) 101707. (IF = 2.5)
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