

Prof. Dr. Muhammad Najam-ul-Haq

Director Institute of Chemical Sciences

Director ORIC

Bahauddin Zakariya University

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Home: B-19, Staff Colony, Bahauddin Zakariya University, Multan 60800, Pakistan.

Date of Birth: 28-03-1973

Marital Status: Married, 2 Children

Education

2013-2014 Post-Doctorate (Analytical Chemistry) on "Development of Selective Enrichment and Desalting Methodologies based on Nano- and Micro-Materials of Varying Properties and the Subsequent Analysis by MALDI-MS". University of Innsbruck, Austria.

Field of Specialization: Analytical Chemistry

2003-2007 PhD (Chemistry) on "Development of Carbon Nanomaterials for Protein Immobilization and Profiling by MALDI-MS". University of Innsbruck, Austria.

Field of Specialization: Analytical Chemistry

1996-1998 M. Phil (Analytical/Inorganic Chemistry) on "Hydrostannation Reaction: Synthesis and Characterization of Organotin Compounds"
Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan.

Field of Specialization: Analytical /Inorganic Chemistry

Result: 1st Division/78.0%/First Class

1994-1996 M. Sc. (Chemistry)
Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan.

Field of Specialization: Analytical/Inorganic Chemistry

Result: 1st Division/73.7%/First Class

1992-1993 B.Sc. (Chemistry, Zoology, Botany, English)
Govt. College, Multan (Bahauddin Zakariya University, Multan)

Result: 1st Division/60.0%/First Class

1989-1992 F. Sc. HSSC (Pre-Medical)
B. I. S. E. Multan

Result: 1st Division/70.5%/First Class

1986-1988 Matriculation SSC (Science)
B. I. S. E. Multan

Result: 1st Division/75.6%/First Class

Academic Experience

- Professor (Teaching/Research) at the Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (28-12-2014 – to-date)
- Director, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (26-05-2023 – to-date)
- Chairman, Department of Biochemistry, Bahauddin Zakariya University, Multan, Pakistan (01-01-2015 – 31-12-2017)
- Director ORIC (Office of Research, Innovation and Commercialization), Bahauddin Zakariya University, Multan, Pakistan (01-02-2019 – To-date)
- Chairman, Plagiarism Standing Committee (PSC), Bahauddin Zakariya University, Multan, Pakistan (18-01-2019 – To-date).
- Associate Professor (Teaching/Research) at the Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (01-01-2010 – 27-12-2014)
- Assistant Professor (Teaching/Research) at the Department of Chemistry, Bahauddin Zakariya University, Multan, Pakistan (08-03-2008 – 31-12-2009)
- Lecturer (Teaching/Research) at the Department of Chemistry, Bahauddin Zakariya University, Multan, Pakistan (31-05-1999 – 07-03-2008)
- PhD Scholar and Instructor for Practical and Diploma work (Teaching/Research) at University of Innsbruck, Austria (November 2003 – December 2007)
- Lecturer (Teaching) at Govt. Degree College Kahuta, Pakistan (Punjab Public Service Commission), (December 1998 to May 1999)
- Lecturer (Teaching) at Fauji Foundation College, Rawalpindi, Pakistan (January 1998 to December 1998)
- Worked as Research Assistant (RA) on research project entitled “*Hydrostannation Reaction: Synthesis and Characterization of Organotin compounds*” during M. Phil. at Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan.

Research Interests

Analytical Chemistry; Separation Science; Diagnostics; HPLC; Solid Phase Extraction (SPE); In-Tip strategies; Drug delivery; Desalting; Metal organic frameworks (MOFs); Polymeric stationary phases; Polymeric composites; Quantum dots; Nanocomposites; Energy materials; Monoliths; Diamond, Nanotubes, Graphene, Fullerenes Chemistry; Trace metal analysis; MALDI/TOF-MS; NIR; Nanomaterials and Nanotechnology; Proteomics; Phospho-proteomics; Glyco-proteomics; Lipo-proteomics; Metabolomics; Peptidomics; Lipidomics; Biomarker strategies; Protein Profiling by MELDI-MS (Material-Enhanced Laser

Desorption/Ionization Mass Spectrometry); In-Tip & On-Target extraction strategies; Nanocosmetics; Biosensors; Organometallic chemistry; Crystallography.

General

Research Supervision

PhD Completed

1. Development, Modification and Applications of Polymeric Substances for Biomolecules in Separation Science (Ph.D., HEC Indigenous, Adeela Saeed, Jan 2010 – Apr 2014: *PhD Degree Awarded*).
2. Quantification of Inorganic Toxins in Tobacco Products and Study of the Correlated Effects on Metabolic Plasma Profiling of Tobacco Users, Non-User and Patients of Chronic Obstructive Pulmonary Disease (COPD) by using Mass Spectrometry and TLC-Densitometry and Validation for the Quantification of Pyrethroids in Household Products (Ph.D., HEC Indigenous, M. Shoaib, Feb 2011 –Apr 2014: *PhD Degree Awarded*).
3. Studies on Mineral Dissolution Kinetics and Modeling (Ph.D., Nadeem Raza, Feb 2012 – Mar 2015: *PhD Degree Awarded*)
4. Development, Modification and Applications of Metal Oxides and its Combinations for Bio-applications in Separation Science (Ph.D., HEC Indigenous, Batool Fatima, Feb 2011 – May 2014: *PhD Degree Awarded*).
5. Fabrication of Rare-Earth Metal Oxides Based Materials for Investigation of Phosphoprotein/Peptides Signatures in Biological Fluids (Ph.D., HEC Indigenous, Fahmida Jabeen, Feb 2013 – Mar 2016; *PhD Degree Awarded*)
6. Phytoremediation of Soil Contaminated with Uranium and other Toxic Heavy Metals (M. Tayyab Ahsan, Nov 2013 – May 2017; *PhD Degree Awarded*)
7. Development and Evaluation of Affinity Chromatographic Tools for Proteins/Peptides Profiling from Biological Samples (Ph.D., HEC Indigenous, Dilshad Hussain, Feb 2013 – Sep 2017; *PhD Degree Awarded*)
8. Unearthing Metabolites from Biological Specimens through MS Based Technologies and Delineating Their Role as Potential Cancer Biomarkers (Ph.D., HEC Indigenous, Abrar Mohyuddin, Feb 2013 – Jul 2018; *PhD Degree Awarded*)
9. Assay optimization and characterization of potent and selective inhibitors of AChE, BChE, BACE-1 and beta-amyloid (PhD, M. Shakil Shah, Feb 2012 – Aug 2018; *PhD Degree Awarded*)

10. Synthesis and Characterization of Affinity Materials for the Glycoproteins/ Peptides Enrichment (PhD, M. Salman Sajid, Sep 2014 – June 2020; *PhD Degree Awarded*)
11. Enrichment of Lipids and their complexes from Biological Samples by Affinity Chromatography and Analysis by Different Analytical Techniques (PhD, Rabia Javeed, Sep 2014 – Dec 2021; *PhD Degree Awarded*)
12. Environment Friendly Dyeing by Using Biodegradable Salts (PhD, Riaz Baig, Feb 2012 – Jun 2020; *PhD Degree Awarded*)
13. Functionalization of Metal Organic Framework with Nanocatalysts for Enhanced Photocatalytic Activity (PhD, M. Kashif, Feb 2017 – Jun 2022; *PhD Degree Awarded*)
14. Designing of Drugs Loaded Tumour Penetrating Peptide Based Carriers for Non-invasive Targeted Drug Delivery (PhD, Thesis Submitted, Saima Ashraf, Sep 2018 – May 2024)

PhD Under Progress

1. Transdermal Delivery of Nanomaterials as Potential Guards against Skin Problems (PhD, Under Progress, Ms. Nabila Bashir, Dec 2018 – to-date)
2. Strategies for Fabricating Wound Healing Materials and Subsequent Wound Management (PhD, Under Progress, Ms. Saman Kainat, Sep 2022 – to-date)
3. Metalomics Based Potential Biomarkers Detection in Biofluids of Cancer Patients (PhD, Under Progress, Mr. Abdul Saeed, Oct 2019 – to-date)
4. Enhancing the Biological Compatibility with Modified Smart Nanomaterials for Biomedical Applications (PhD, Under Progress, Ms. Sabooh-ul-Ain, Oct 2019 – to-date)
5. Fabrication of Affinity Materials for Enriching Circulating Tumour Cells (CTCs) (PhD, Under Progress, Ms. Sabeen Iqbal, Oct 2021 – to-date)

MPhil / MS

1. Optimization of Sterilization Parameters and Development of Self-Sterilizing Coating Materials (M. Phil. 2023; Ammara Riaz)
2. Amelioration of Sterilization Protocols and Designing Metal Oxide-Based Antibacterial Coatings (M. Phil. 2023; Soha Ghaffar)
3. Electrochemical Detection of Creatinine Using GO@Ag-CuO (M. Phil. 2023; Alina Manahil)

4. Electrospun GO/Ag/PVA/Zein Nanofibers for Air Filtration (M. Phil. 2022; Saman Kainat)
5. GO-SiO₂@PBA based Cyclic Voltametric Detection of Cancer Cells (M. Phil. 2022; Rameen Khan)
6. Designing of Microwave Absorbing Conducting Material for Stealth Technology (M. Phil. 2022; Zunair Majeed)
7. Metal Oxide Nanoparticles and their Blends as Additives in Combustion Efficacy of Diesel Fuel (M. Phil. 2020; Qmber Abbas)
8. Oxygen Enrichment by Pressure Swing Adsorption for Enhancing Fuel Combustion (M. Phil. 2020; Sara Saleem)
9. Glycopeptides Enrichment by UIO-66(Yb)/Graphene@L-Lysine and their Analysis by Mass Spectrometry (M. Phil. 2020; Nusrat Nazeer)
10. Sulphonate Immobilized Polymeric Beads of 1,2-Epoxy-5-Hexene/Divinyl Benzene for Glycopeptides Profiling by Mass Spectrometry (M. Phil. 2020; Iqra Wali)
11. Designing of Super Hydrophilic Solid Media for Glycopeptides Enrichment and their Analysis by Mass Spectrometry (M. Phil. 2020; Sahresh Majeed)
12. Study of Electrochemical Behavior of Cancer Cells by Cyclic Voltammetry (M. Phil. 2020; Sabeen Iqbal)
13. Investigation of Diesel Combustion Efficiency by Oxygenated Organic Additives (M. Phil. 2020; Syed Salman Abid)
14. Fabrication of Gold-Drug-Graphene Nano-System for the Targeted Drug Delivery (M. Phil. 2019; Natasha Noor)
15. Relationship of Hepatitis B Early Antigen (HBeAg) with Biochemical Parameters in HBV Infected Patients (M. Phil. 2019; Fareeha Ayyaz)
16. Coating of Metal Oxides Nanoparticles and Chitosan for the Assessment of Skin Anti-aging and Sun Protection (M. Phil. 2019; Kausar Parveen)
17. Extraction of Polyphenolic Compounds from the Powdered Seeds of Bitter Cumin (*Centratherum anthelminticum*) and their Biological Activity (M. Phil. 2019; Hina Mariam)
18. Use of amino acids and short chain peptides for drugs' solubility enhancement (M. Phil. 2019; Muhammad Hamza Javed)
19. Extraction of Polyphenols from *Moringa oleifera* for their Biological Activity Studies (M. Phil. 2019; Zakiya Tareen)

20. Extraction and Structural Determination of Bioactive Ingredients from *Moringa oleifera* (M. Phil. 2019; Shah Rukh)
21. Silver Doped Graphene-Titania Composite for Electrochemical Sensing of Amino Acids from Biological Sample (M. Phil. 2018; Abdul Wahid Sandhu)
22. Evaluation of MLH1 Promoter Region Methylation in Cancerous Tissues (M. Phil. 2018; Saira Fatima)
23. Toxicity of Metals (Cr, Co, Ni, Cu and Pb) on Glutathione Level in Plasma and its Binding Capacity toward Free Radicals during Oxidative Stress (M. Phil. 2018; Rashida Aslam)
24. Fabrication of Antimonene Quantum Dots and their Application in Drug Delivery (M. Phil. 2018; Hafiza Tanzilla Hussain)
25. Graphene Oxide-Modified Zirconium-Metal Organic Framework (GO-Zr-MOF) for Enhanced Gas Storage (M. Phil. 2018; Fariha Yazdani)
26. Nanoformulation of Biotin-Conjugated Polycaprolactone Mesoporous Silica Modified Gold Composite for Biomedical Application (M. Phil. 2018; Asma Latif)
27. Designing of Folic Acid-Conjugated Chitosan Silica Modified Gold Complex Nanoformulation for Bio-Application (M. Phil. 2018; Noor-ul-Ain Fatima)
28. Bifunctionalized Metal Organic Framework (MOF) for Enhanced Gas Storage and Conversion to Methanol (M. Phil. 2018; Huma Javeria)
29. Development of Gallic Acid Modified Zinc Oxide (ZnO) Nanoparticles as Anti-Aging Agent (M. Phil. 2018; Shagufta Aziz)
30. Green Synthesis of Gold-Graphene Nanocomposite for Nano-Cosmetics Application (M. Phil. 2018; Hina Shafi)
31. Activity of Drug Loaded Alginate Nanoparticles against Cystic Fibrosis: An *In-Vitro* Approach (M. Phil. 2018; Sana Liaqat)
32. Study of Skin Penetration, Tyrosinase Inhibition and Antiwrinkle Capacity of Deoxyarbutin enclosed in Liposome Nanoparticles (M. Phil. 2018; Chman Shahzadi)
33. Study of DNA Methylation in Cancerous Tissues by Polymerase Chain Reaction (M. Phil. 2017; Momna Aslam)
34. Toxicity of Metals (Cr, Co, Ni, Cu and Pb) on Glutathione Level in Plasma and its Binding Capacity toward Free Radicals during Oxidative Stress (M. Phil. 2018; Rashida Aslam)
35. Qualitative Determination of Glycoprotein using Fluorescence Biosensor (M. Phil. 2017; Nayab Sami)

36. Evaluation of Oxygen Releasing Behavior of PLGA/Sodium Per Carbonate 3D Scaffolds (M. Phil. 2017; Waliya Zubairi)
37. Formulation of PLGA/CaO₂ Nanocomposite for Cancer Treatment (M. Phil. 2017; Samra Habib)
38. Antioxidant and Photo-Protective Activity of Extracted and Purified Natural Flavonoids in Sunscreen Formulation (M. Phil. 2017; Ammara Saulat)
39. Online Coupling of Solid Phase Extraction to Voltammetry (M. Phil. 2017; M. Mujahid Ali)
40. In Vitro Study of Induced Methylation Pattern in Human DNA (M. Phil. 2017; Faariah Rehman)
41. Synthesis and Optimization of Binary Oxides and Silicon Carbide Nanoparticles for Artificial Kidney Application (M. Phil. 2017; Hafiza Nadia Rashid)
42. Fabrication of Biodegradable Alloy and Evaluation of their Structural and Mechanical Properties for Biomedical Application (M. Phil. 2017; Sabooh-ul-Ain)
43. Effectiveness of Extracted and Purified Natural Antioxidants in Skin Protection Formulation to Reduce Sun Exposure Damage (M. Phil. 2017; Adeeba Iqbal)
44. Synthesis of Piperazine based Bifunctionalized Metal Organic Frameworks (MOF's) (M. Phil. 2016; Aisha Khalid)
45. Synthesis of Biodegradable Methylated Polyethylene Glycol Nanoparticles for the Drug Delivery (M. Phil. 2016; Saba Zulfiqar)
46. Fmoc based Solid Phase Peptides (Short Chain) Synthesis and their Characterization (M. Phil. 2016; Ayesha Aslam)
47. Synthesis of Doped Nitride as an Efficient Anode Material for Lithium / Sodium Ion Batteries (M. Phil. 2016; Muhammad Younas)
48. Effect of Flavonoids on the Interaction of Anti-Cancer Drugs with Carrier Proteins (M. Phil. 2016; Samia Sultan)
49. Use of Gold and Trans-Cinnamic Acid Nanoparticles in Sunscreen Against Skin Darkening and Premature Skin Aging (M.Phil. 2016; Hira Mubarak)
50. Synthesis and Use of Biodegradable Polymeric Nanosphere for the Delivery of Ciprofloxacin at Targeted Site (M. Phil. 2016; Aqsa Nosheen)
51. Non-Enzymatic Electrochemical Glucose Sensor Based on Graphene Quantum Dots Modified Glassy Carbon Electrode (M. Phil. 2016; Iqra Mushtaq)
52. Integration of ZnS-GO Nanocomposite in Sunscreen for Enhanced Efficiency (M. Phil. 2016; Rabia Qamar)

53. Fabrication of Nanocomposites and Their Embedding in Sunscreens for Higher SPF_s (Sun Protection Factor) (M. Phil. 2016; Rimsha Sadiq)
54. Synthesis and Characterization of Aliphatic Amino Acids, Diamino Acids and Short-Chain Peptides (M. Phil. 2016; Saima Ashraf)
55. Synthesis and Characterization of Biodegradable PEG-PCL-PEG Tri-block Polymer/Chitosan/n-HA Composite for Bone Repairing (M. Phil. 2016; Nadia Ismail)
56. Determination of toxic metals using amino acids coated magnetic nanoparticles by Atomic Absorption Spectrometry and Voltammetry (M. Phil. 2016; Muhammad Ali)
57. Preparation of cellulose-silica composite as stationary phase of HPLC based separation of pesticides (M. Phil. 2016; Sajid Ali)
58. Determination of albumin levels in biological fluids of diseased persons (M. Phil. 2016; Maryam Hassan)
59. Analysis of albumin associated protein (ceruloplasmin) from human serum (M. Phil. 2016; Amna Shabbir)
60. The designing of selective enrichment strategy for sulfo-peptides from human serum digest (M. Phil. 2016; Rabia Rasool)
61. Enrichment of ubiquitinated proteins and its analysis (M. Phil. 2016; Jameela Aziz)
62. Method development for the profiling of low-density lipoproteins from human serum (M. Phil. 2016; Samina Kausar)
63. Effect of flavonoids and glycation on anti-diabetic drugs with Human Serum Albumin (HSA)(M. Phil. 2016; Tanzeela Nawaz)
64. Use of nanoparticles and core shell nanoparticles to enhance the UV protection capability of sunscreens (M. Phil. 2016; Nabila Bashir)
65. Synthesis of magnetic zeolite ion-exchanger and its application in the removal of toxic metals (M. Phil. 2016; Ayshat-ul-Nabi)
66. Separation, Identification and Quantification of amino acids in biological samples by SPE-UPLC-ESI-MS (M. Phil. 2016; Ansa Intizar)
67. Development of IMAC based strategy for sulfo-peptides enrichment and their analysis by MALDI-MS (M. Phil. 2016; Zeeshan Ali)
68. Synthesis, Characterization and Degradation of Biodegradable Starch Based Polymer, Co-polymerized with Itaconic Acid, D-Mannitol and Sebacic Acid (M. Phil. 2015; Nimra Khalid)
69. Synthesis and Application of Polymeric Gels for Proteins Separation (M. Phil. 2015; Samina Ahmed Hussain)

70. Synthesis of Bioabsorbable Bone Repairing Polymeric Material (M. Phil. 2015; M. Mubashar Naeem)
71. Synthesis and Characterization of Nanohybrid Polymers (M. Phil. 2015; M. Naqash Saleem)
72. Cation Exchange Affinity for the Enrichment of Metalloproteins (M. Phil. 2015; Sidra Aslam)
73. Characterization of Nanomaterials by Matrix Assisted Laser Desorption Ionization Time of Flight Mass Spectrometry (M. Phil. 2014; Aqsa Akram)
74. Development of Method for Detection of Insulin Level in Breast Cancer (M. Phil. 2014; Shumaila Ghaffar)
75. Development of IMAC Based Enrichment Methodology for Detection of Metalloproteins by MALDI-MS (M. Phil. 2014; Zafar Iqbal)
76. Development of Enrichment Methodology of Transferrin on Functionalized Polymer (M.Phil. 2014; Syed Tayyab Raza Naqvi)
77. MS Based Approach for Comparative Study of Glycoproteins Enrichment using Different Forms of Cellulose (M. Phil. 2014; Ali Saleh Ahmed)
78. Development of Hydrazine Immobilized Support Materials for the Glyco-Protein/Peptide Enrichment (M. Phil. 2013; Salman Sajid)
79. Enrichment of Lipoproteins from Complex Samples Employing Polymeric Based Anion Exchange Chromatography and MALDI-MS (M. Phil. 2013; Hira Saeed)
80. Silica Micro/Nano Spheres in Glycoprotein/Peptides Enrichment (M. Phil. 2013; Ghazal Sharmeen)
81. Targeted Profiling of Phospholipids in Human Serum using MALDI-MS (M. Phil. 2013; Ambreen Saba)
82. Analysis of Lipoproteins via Affinity Chromatography and Mass Spectrometry (M. Phil. 2013; Rabia Javeed)
83. Nanomaterials for the Separation and Characterization of Glycoproteins (M.Phil. 2012; Muhammad Imran)
84. Miniaturized Polymeric Monolithic Tips in Proteomics (M.Phil. 2012; Raheela Naz)
85. Silica based Materials for Selective Enrichment of Glycopeptides (M.Phil. 2012; Shazia Ahmed)
86. Fabrication of Terpolymer Monolithic Tips in Biomolecules Separation (M.Phil. 2012; Aisha Nazish)

87. Selective and rapid enrichment of phosphopeptides using Lanthanum oxide-Silica composite (M. Phil. 2011; Fahmida Jabeen)
88. Chemical modification of diamond nano-powder and its application in proteomics (M. Phil. 2011; Dilshad Hussain)
89. Development and application of immobilized metal ion affinity and reversed phase of cellulose-silica composite (M. Phil. 2011; Faeza Shafiq)
90. Preparation of diamond-silica composite and its application in proteomics (M. Phil. 2011; Urwa Maryam)
91. Alternates to the Commercially Available Matrices for MALDI-MS Analysis (M.Phil. 2011, Aisha Bibi, UOK).
92. Synthesis and Study of Amino Acid Derivatives of Triazinyl Stilbene as Fluorescent Whitening Agents (M. Phil. 2010, Riaz Baig).
93. Kinetic Study and Inhibition Effect of Different Compounds on Alkaline Phosphatase and Urease by Spectrophotometric Method (M. Phil. 2010, Shakil Shah)
94. Synthesis of ter-Polymer Support Material and its Modification by Iminodiacetic Acid (M. Phil. 2010; Mariam Shabbir).
95. Development of Reversed Phase System with the Polymeric Support Material (M. Phil. 2010; Naseem Khan).
96. Enrichment and protein profiling using strontium ferric oxide (M. Phil., 2009; M. Aizaz ud Din).
97. Quantitative Study and Comparison of Effect of Octane Booster on Gasoline (M. Phil. 2009; Basharat Ali).
98. Densitometric Method Development and Validation for the Quantitative Estimation of Nicotine in Various Tobacco Products (M. Phil., 2009; M. Shoaib).
99. Development of Adsorbents for Thin Layer and Column Chromatography (M. Phil., 2008; Adeela Saeed).
100. Development of Polymeric Stationary Phases for Separation (M. Phil., 2008; Razia Saleem).

MSc

1. Determination of Trace Metals (Zn, Fe, Mn) and of Proteins, Carbohydrates and Lipids in Medicinal Plants (M.Sc., 2003; Qurat-ul-Ain).
2. Determination of Water Quality Parameters and Trace Metals in Local Water Samples (M.Sc., 2003; Iffat Ghaffoor).
3. Blood Magnesium Levels in Children of Multan Region (M.Sc., 2002)

4. Decontamination of Commercial Oil Samples by Zeolite 4-A (M.Sc., 2001)

Administrative Project for the New Building of Department of Biochemistry

During the Chairman Tenure of 03 Years, A New Building of the Department of Biochemistry was conceived/planned, sketched, approved from Planning & Development, Finance & Planning Committee, Syndicate, Tendering and now Under Construction.

Total Amount: **Rs. 68.04 Million**

Research Funding Projects

1. Title: NanoLab for Nanomaterials and Functionalized Nanomaterials for National and International Commercial Supply
Funding Agency: Planning Commission, Govt. of Pakistan & Higher Education Commission (HEC), Pakistan
Total Amount: Rs. 1,21,000,000/- (**Rs. 121/- Million**)
Project duration: 18 months
Status: NanoLab Proposal Approved and PC1 Submitted
2. **Title:** Development of Powerful Rechargeable Lithium-Ion Batteries for Electric Vehicles
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs. 3,00,000/-
Project duration: 12 months **Status:** On-Going
3. **Title:** Studies on Removal of Chemical Pollutants from Wastewater using Adsorbents
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs. 1,42,800/-
Project duration: 18 months **Status:** Complete
4. **Title:** Enrichment of Phosphopeptides from Real Biological Samples using Diamond Nanopowder – Metal Oxide Composite Materials
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs. 2,85,600/-
Project duration: 24 months **Status:** Complete
5. **Title:** Selective Capture of Low Abundant Metabolite Classes from Biological Fluids through Affinity Chromatography
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs. 3,46,000/-
Project duration: 12 months **Status:** Complete

6. **Title:** Environment Friendly Dyeing by Using Biodegradable Salts
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs. 3,50,000/-
Project duration: 12 months **Status:** Complete
7. **Title:** An in Vitro and in Silico Approach to Cholinesterase Inhibitory Effects of Selected Medicinal Plant Extract, Fractions and their Isolated Compounds: An Insight into Therapeutic Avenues
Funding Agency: Higher Education Commission (HEC), Pakistan
Total Amount: Rs. 5,00,000/-
Project duration: 12 months **Status:** Completed
8. **Title:** Bacterial Diversity in Rhizosphere Soil of a Dominated Plant Species Growing in Cholistan Desert
Funding Agency: Higher Education Commission (HEC), Pakistan
Total Amount: Rs. 4,94,700/-
Project duration: 12 months **Status:** Continued
9. **Title:** Synthesis and Characterization of Affinity Materials for the Glycoproteins/Peptides Enrichment
Funding Agency: Bahauddin Zakariya University, Multan, Pakistan
Total Amount: Rs. 4,99,000/-
Project duration: 12 months **Status:** Complete

Awards / Achievements

- HEC Outstanding Research Award 2013/2014; "Best Research Paper Award" on Newly Developed Poly(Allyl Glycidyl Ether/Divinyl Benzene) Polymer for Phosphopeptides Enrichment and Desalting of Biofluids, by Higher Education Commission (HEC), Pakistan
- HEC Outstanding Research Award 2013/2014; "Best Research Paper Award" on Growth of a Highly Porous Coordination Polymer on a Macroporous Polymer Monolith Support for Enhanced Immobilized Metal Ion Affinity Chromatographic Enrichment of Phosphopeptides, by Higher Education Commission (HEC), Pakistan
- HEC Outstanding Research Award 2012; "Best Research Paper Award" on Silica–Lanthanum Oxide - Pioneer Composite of Rare-Earth Metal Oxide in Selective Phosphopeptides Enrichment, by Higher Education Commission (HEC), Pakistan
- Postdoc Position (6 Months) by Austrian Federal Ministry of Science and Research (BMWF), September 2013 – February 2014.

- Higher Education Commission (HEC), Pakistan; 4-Years PhD Fellowship for University of Innsbruck, Austria. November 2003 – December 2007.
- Certificate of Appreciation by Office of Research, Innovation and Commercialization (ORIC), Bahauddin Zakariya University, Multan, Pakistan for producing 02 Highest Quality PhD Ever at BZU (Both Accumulative Impact Factors PhDs > 70)
- Won Research Productivity Award (RPA) from Ministry of Science and Technology (MOST), Pakistan, for the year 2010.
- Won Research Productivity Award (RPA) from Ministry of Science and Technology (MOST), Pakistan, for the year 2011.
- Won Research Productivity Award (RPA) from Ministry of Science and Technology (MOST), Pakistan, for the year 2012.
- Won Research Productivity Award (RPA) from Ministry of Science and Technology (MOST), Pakistan, for the year 2013.
- Won Research Productivity Award (RPA) from Ministry of Science and Technology (MOST), Pakistan, for the year 2014.
- Won Research Productivity Award (RPA) from Ministry of Science and Technology (MOST), Pakistan, for the year 2015.

International Research Collaborations

- Institute of Analytical Chemistry and Radiochemistry, Leopold-Franzens University, Innsbruck, Austria
- Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, Jilin, China
- Georgetown University, Washington, USA
- Biocenter, Division of Cell Biology, Innsbruck Medical University, Innsbruck, Austria
- PhyNexus, Inc., San Jose, CA, USA
- p-BeSt coating GmbH, Exlgasse 20a, 6020 Innsbruck, Austria
- Department for Cranio- Maxillofacial and Oral Surgery, Medical University of Innsbruck, Maximilianstr. 10, 6020 Innsbruck, Austria.
- Sony DADC AG, Sonystraße 20, A-5081 Anif, Austria

Techniques

MALDI/TOF-MS; HPLC; NIR; Atomic Absorption Spectrometry; NMR; FTIR; NIR; UV-Visible; Mass Spectrometry, Nitrogen Adsorption Porosimetry; BET; Thermal

Methods of Analysis; Scanning Electron Microscopy; Atomic Force Microscopy; X-Ray Photoelectron Spectroscopy (XPS).

Computer Skills

MS Office; ISIS; CW III; HTML (Web Designing); Visual Basic; System Analysis & Design; Operating Systems (DOS, Windows, Unix/Linux); Networking; PC Fundamentals.

Advanced Courses

- Advanced Chromatographic Techniques
- Mass spectrometry as Proteomics Tool
- Monolithic Stationary Phases
- Applied Atomic Absorption Spectroscopy
- Special Topics in Analytical Chemistry (NMR, IR, Mass)
- Inorganic Electronic Spectroscopy
- Diffractive Methods of Analysis
- Advanced Thermal Methods of Analysis
- Kinetics and Mechanism of Inorganic Reactions
- Advanced Applied Chemistry
- Special Topics in Inorganic Chemistry (Organometallic Chemistry, Inorganic Polymers)
- Radio and Nuclear Chemistry
- Group Theory
- Non-Aqueous Solvents
- Advanced Coordination Chemistry
- Analytical Techniques

Additional Curricular / Administrative Assignments

- Chairman, Department of Biochemistry, Bahauddin Zakariya University, Multan, Pakistan (01-01-2015 – 31-12-2017)
- Director ORIC (Office of Research, Innovation and Commercialization), Bahauddin Zakariya University, Multan, Pakistan (01-02-2019 – To-date)
- Director, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (26-05-2023 – To-date)
- Chairman, Plagiarism Standing Committee (PSC), Bahauddin Zakariya University, Multan, Pakistan (18-01-2019 – To-date)

- Member Appointment Committee, Board of Intermediate and Secondary Education, Multan (15-07-2021 – 14-07-2023)
- Member, Advanced Studies & Research Board, Bahauddin Zakariya University, Multan, Pakistan (12-03-2020 – 11-03-2023)
- Member, Advanced Studies & Research Board, Bahauddin Zakariya University, Multan, Pakistan (30-05-2016 – 29-05-2019)
- Warden Umar Hall (Boys Hostel), Bahauddin Zakariya University, Multan, Pakistan (20-03-2019 – 01-11-2021)
- Member, Advisory Committee for Prime Minister Citizen Portal, Bahauddin Zakariya University, Multan, Pakistan (Jan 2019 – To-date)
- Member, Semester System Reforms Committee, Bahauddin Zakariya University, Multan, Pakistan (11-02-2019 – 10-12-2019)
- Member, Revamping the Integrated Undergraduate Curricula of 4-Years Degree Programs, Bahauddin Zakariya University, Multan, Pakistan (25-02-2019 – 24-12-2019)
- Member, SNE (Schedule of New expenditure) Committee for the Financial Year 2019-20, Bahauddin Zakariya University, Multan, Pakistan.
- Member, BZU Core Research Group, Bahauddin Zakariya University, Multan, Pakistan (-03-2020 – 02-2021).
- Member, BZU Core Engine Research Group, Bahauddin Zakariya University, Multan, Pakistan (02-05-2019 – 01-12-2019).
- Member, Committee preparing Proposal for Establishment of Institute of Multidisciplinary Studies at Bahauddin Zakariya University, Multan, Pakistan (21-05-2019 – 20-09-2019).
- Member, Committee constituted by Syndicate for the Regularization of Services of employees at Bahauddin Zakariya University, Multan, Pakistan.
- Chairman – PhD Synopsis Evaluation Committee, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (10-11-2017 – To-Date).
- Member, Board of Faculty, University Engineering College, Bahauddin Zakariya University, Multan, Pakistan (03-07-2014 – 04-06-2016).
- Member, Academic Council, Bahauddin Zakariya University, Multan, Pakistan (*Ex-Officio Member*) (01-01-2015 – To-Date).
- Member, Senate, Bahauddin Zakariya University, Multan, Pakistan (*Ex-Officio Member*) (01-01-2015 – To-Date).

- Manager Research Operations, Office of Research, Industrialization and Commercialization (ORIC), Bahauddin Zakariya University, Multan, Pakistan (20-05-2014 – 31-07-2014).
- Member – Board of Studies, Department of Chemistry, Govt. College University, Faisalabad, Pakistan (25-02-2016 – To-date).
- Member – Board of Studies, Department of Applied Chemistry, Govt. College University, Faisalabad, Pakistan (June 2020 – To-date).
- Member – Board of Studies, Department of Biochemistry, Govt. College University, Faisalabad, Pakistan (Jan 2022 – To-date).
- Member as Subject Expert (Analytical Chemistry) – Departmental Doctoral Program Committee (DDPC), Department of Chemistry, The Women University, Multan, Pakistan (17-04-2019 – 16-04-2022).
- Member – Board of Studies, Department of Biochemistry and Biotechnology, The Islamia University, Bahawalpur, Pakistan (20-04-2016 – 19-04-2019).
- Member – Board of Studies, Department of Chemistry, The Islamia University, Bahawalpur, Pakistan (Jan 2019 – To-date).
- Chairman/Convener, Board of Studies, Department of Biochemistry, Bahauddin Zakariya University, Multan, Pakistan (*Ex-Officio Member*) (10-12-2015 – 31-12-2017).
- Chairman – Admission Committee, Department of Biochemistry, Bahauddin Zakariya University, Multan, Pakistan (*Ex-Officio Member*) (01-01-2015 – 31-12-2017)
- Deputy Laboratory In-charge, Hi-Tech Instrumental Laboratory, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (20-04-2011 – 06-09-2013)
- In-charge, Hi-Tech Instrumental Laboratory, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (25-03-2014 – 31-05-2014)
- Program Coordinator, M. Phil Chemistry (Evening Program), Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (01-03-2018 – 28-02-2019)
- Member – Board of Studies, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (01-01-2010 – To-Date).
- Member – Board of Studies, Mirpur University of Science and Technology, Mirpur, Pakistan (Year 2009).

- Member, Committee for Upgradation of University Laboratories, Bahauddin Zakariya University, Multan, Pakistan (19-02-2016 – 18-02-2018).
- Co-Opted Member, Sub-Committee, Implementation of New Grading System, Bahauddin Zakariya University, Multan, Pakistan (25-02-2015 – 31-12-2015).
- Secretary/Member, Instrumental Resources Committee, Bahauddin Zakariya University, Multan, Pakistan (19-10-2012 – 06-09-2013).
- Student Advisor, Department of Chemistry, Bahauddin Zakariya University, Multan, Pakistan (05-02-2010 – 31-11-2010).
- Inspector – Purchase Committee (Paper and Printing Materials), Bahauddin Zakariya University, Multan, Pakistan (24-02-2011 – 06-09-2013).
- Inspector – Purchase Committee (Paper and Printing Materials), Bahauddin Zakariya University, Multan, Pakistan (27-07-2016 – 26-07-2017).
- Member – Purchase Committee, Undergraduate Studies, Bahauddin Zakariya University, Multan, Pakistan (Year 2010 – Year 2012).
- Member of the International Advisory Board of Journal Separation Science Plus (31-03-2018 – To-Date)
- Member of the Editorial Board, Journal of Research (Science) (2016 – 2019)
- Member, Departmental Tenure Review Committee (DTRC), Institute of Chemical Sciences, Bahauddin Zakariya University, Multan (06-03-2015 – 21-11-2017)
- Member/Secretary, Departmental Tenure Review Committee (DTRC), Institute of Chemical Sciences, Bahauddin Zakariya University, Multan (22-11-2017 – 04-10-2018)
- Member/Secretary, Departmental Tenure Review Committee (DTRC), Institute of Chemical Sciences, Bahauddin Zakariya University, Multan (05-10-2018 – 04-10-2019)
- Member, Reconciliation Committee, Bahauddin Zakariya University, Multan (31-12-2015 – 30-12-2017)
- Member, Executive Committee, Bahauddin Zakariya University Faculty Sports Association (Jan 2015 – Dec 2018)
- Member/Secretary, Departmental Academic Advisory Committee, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan (16-09-2015 – 31-08-2016)
- Member, Departmental Academic Advisory Committee, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan (01-09-2016 – 31-08-2017)

- Member, Departmental Academic Advisory Committee, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan (16-11-2017 – 14-10-2018)
- Member, Departmental Academic Advisory Committee, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan (10-11-2017 – To-Date)
- Member, Departmental Technical Committee, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (10-09-2015 – 09-09-2016)
- Member, Departmental Examination Committee, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (10-11-2017 – To-Date)
- Member, Departmental Scholarship Committee, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (02-01-2017 – 01-01-2017)
- Member, Advisory Board for ORIC-BZU Newsletter, Bahauddin Zakariya University, Multan, Pakistan (29-08-2017 – 31-01-2019).
- Organizing Secretary, International Travelling Expo at Bahauddin Zakariya University, Multan, Pakistan (12-02-2012– 21-02-2012)
- Member, Printing, Publication and Banner Committee for 13th Convocation of Bahauddin Zakariya University, Multan, Pakistan.
- Chairperson, Research Instruments Purchase and Maintenance Committee, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan (22-11-2018 – 21-11-2021)
- Member – Purchase Committee, Institute of Chemical Sciences, Bahauddin Zakariya University, Multan, Pakistan
- Member – Editorial Board, Journal of Research (Science).
- Member of the International Advisory Board of Journal Separation Science Plus
- Reviewer – Scientific Reports by Nature
- Reviewer – Analytical Chemistry (ACS)
- Reviewer – International Journal of Analytical Chemistry by Hindawi Publishing
- Reviewer – ACS Applied Materials & Interfaces (ACS)
- Reviewer – Analytical Methods (RSC)
- Reviewer – Biomedical Chromatography
- Reviewer – Journal of The Chemical Society of Pakistan
- Reviewer – Journal of Proteome Research
- Reviewer – International Journal of Nanomedicine
- Reviewer – Journal of Separation Science

- Member – Chemical Society of Pakistan
- Member, International Editorial Advisory Board, *Separation Science Plus*, John Wiley & Sons

Impact Factor (IF) of the Published Work According to ISI List 2022

No	Journal's Name	IF	No. of Papers	Total IF
1.	<i>ACS Applied Materials & Interfaces (Q1)</i>	9.5	2	19
2.	<i>ACS Omega (Q2)</i>	3.7	1	3.7
3.	<i>Acta Crystallographica E</i>	-	7	-
4.	<i>Acta Poloniae Pharmaceutica (Q4)</i>	0.4	2	0.8
5.	<i>Advanced Functional Materials (Q1)</i>	19	1	19
6.	<i>American Journal of Analytical Chemistry</i>	-	1	-
7.	<i>Amino Acids (Q3)</i>	3.5	6	21
8.	<i>Analyst (Q1)</i>	4.2	2	8.4
9.	<i>Analytical Chemistry (Q1)</i>	7.4	8	59.2
10.	<i>Analytical and Bioanalytical Chemistry (Q2)</i>	4.3	8	34.4
11.	<i>Analytica Chimica Acta (Q1)</i>	6.2	4	24.8
12.	<i>Applied Surface Science (Q1)</i>	6.7	1	6.7
13.	<i>Biochemical and Biophysical Research Communications (Q3)</i>	3.1	1	3.1
14.	<i>Bioelectrochemistry (Q1)</i>	5	1	5
15.	<i>Biomaterials (Q1)</i>	14	1	14
16.	<i>Biomedical Chromatography (Q4)</i>	1.8	2	3.6
17.	<i>Catalysis Letters (Q3)</i>	2.8	1	2.8
18.	<i>Ceramics International (Q1)</i>	5.2	1	5.2
19.	<i>Chemical Engineering Journal (Q1)</i>	15.1	1	15.1
20.	<i>ChemistrySelect (Q3)</i>	2.1	1	2.1
21.	<i>Chemistry Central Journal Continued as BMC Chemistry (Q2)</i>	4.6	3	13.8
22.	<i>Chemosphere (Q1)</i>	8.8	1	8.8
23.	<i>Computational Biology and Chemistry (Q2)</i>	3.1	1	3.1
24.	<i>Computational and Structural Biotechnology Journal (Q1)</i>	4.4	1	4.4
25.	<i>Current Bioactive Compounds</i>	-	2	-
26.	<i>Current Nanoscience (Q4)</i>	1.5	1	1.5
27.	<i>Current Proteomics (Q4)</i>	0.8	1	0.8
28.	<i>Desalination and Water Treatment (Q4)</i>	1.1	2	2.2
29.	<i>Electrochimica Acta (Q1)</i>	6.6	1	6.6
30.	<i>Energy & Fuels (Q2)</i>	5.3	2	10.6
31.	<i>Environmental Science and Pollution Research (Q2)</i>	5.8	1	5.8
32.	<i>European Journal of Pharmaceutics and Biopharmaceutics (Q1)</i>	4.9	1	4.9
33.	<i>European Polymer Journal (Q1)</i>	6	1	6
34.	<i>Expert Review of Proteomics (Q2)</i>	3.4	1	3.4
35.	<i>Fuel (Q1)</i>	7.4	7	51.8
36.	<i>Heteroatom Chemistry (Q4)</i>	0.3	1	0.3
37.	<i>Hydrometallurgy (Q1)</i>	4.7	1	4.7
38.	<i>Heliyon (Q1)</i>	4	1	4
39.	<i>IEEE Sensors Journal (Q1)</i>	4.3	1	4.3
40.	<i>Industria Textila (Q3)</i>	1.4	1	1.4
41.	<i>Inflammopharmacology (Q1)</i>	5.8	1	5.8

42.	<i>International Journal of Biological Macromolecules (Q1)</i>	8.2	1	8.2
43.	<i>International Journal of Environmental Analytical Chemistry (Q3)</i>	2.6	1	2.6
44.	<i>International Journal of Environmental Science and Technology (Q3)</i>	3.1	1	3.1
45.	<i>International Journal of Mineral Processing (Continued as Minerals Engineering) (Q1)</i>	4.8	1	4.8
46.	<i>International Journal of Phytoremediation (Q2)</i>	3.7	1	3.7
47.	<i>JOM</i>	2.6	1	2.6
48.	<i>Journal of Alloys and Compounds (Q2)</i>	6.2	5	31
49.	<i>Journal of Biochemical and Biophysical Methods (Continued as Journal of Proteomics) (Q2)</i>	3.3	1	3.3
50.	<i>Journal of Biological Sciences</i>	-	1	-
51.	<i>Journal of Chromatography B (Q2)</i>	3	1	3
52.	<i>Journal of Drug Delivery Science and Technology (Q1)</i>	5	1	5
53.	<i>Journal of Electroanalytical Chemistry (Q1)</i>	4.5	3	13.5
54.	<i>Journal of Energy Storage (Q1)</i>	9.4	3	28.2
55.	<i>Journal of Food and Drug Analysis (Q1)</i>	3.6	1	3.6
56.	<i>Journal of King Saud University-Science (Q2)</i>	3.8	1	3.8
57.	<i>Journal of The Chemical Society of Pakistan (Q4)</i>	0.7	2	1.4
58.	<i>Journal of the Indian Chemical Society (Q4)</i>	1.3	1	1.3
59.	<i>Journal of Magnetism and Magnetic Materials (Q3)</i>	2.7	9	24.3
60.	<i>Journal of Materials Science- Materials in Electronics (Q2)</i>	2.8	1	2.8
61.	<i>Journal of Mass Spectrometry (Q2)</i>	2.3	1	2.3
62.	<i>Journal of Materials Chemistry A (Q1)</i>	11.9	1	11.9
63.	<i>Journal of Molecular Liquids (Q1)</i>	6	2	12
64.	<i>Journal of Nanomaterials (Q3)</i>	-	1	-
65.	<i>Journal of Nanoscience and Nanotechnology</i>	-	1	-
66.	<i>Journal of Near Infrared Spectroscopy (Q3)</i>	1.8	2	3.6
67.	<i>Journal of Pharmaceutical Analysis (Q1)</i>	8.8	1	8.8
68.	<i>Journal of Physical Chemistry C (Q2)</i>	3.7	1	3.7
69.	<i>Journal of Proteome Research (Q1)</i>	4.4	2	8.8
70.	<i>Journal of Separation Science (Q2)</i>	3.1	4	12.4
71.	<i>Journal of the American Society for Mass Spectrometry (Q2)</i>	3.2	1	3.2
72.	<i>Journal of the Electrochemical Society (Q1)</i>	3.9	2	7.8
73.	<i>JPC - Journal of Planar Chromatography – Modern TLC (Q4)</i>	1.6	2	3.2
74.	<i>Journal of Power Sources (Q1)</i>	9.2	1	9.2
75.	<i>Journal of Taibah University for Science (Q2)</i>	3.3	3	9.9
76.	<i>Langmuir (Q1)</i>	3.9	1	3.9
77.	<i>Letters in Drug Design & Discovery (Q4)</i>	1	1	1

78.	<i>Materials Chemistry and Physics (Q2)</i>	4.6	1	4.6
79.	<i>Materials & Design (Q1)</i>	8.4	1	8.4
80.	<i>Materials Innovations</i>	-	1	-
81.	<i>Materials Research Express (Q4)</i>	2.3	1	2.3
82.	<i>Materials Research Bulletin (Q2)</i>	5.4	1	5.4
83.	<i>Materials Science & Engineering C - Materials for Biological Applications (Q1)</i>	7.9	1	7.9
84.	<i>Microchemical Journal (Q1)</i>	4.	3	14.4
85.	<i>Microchimica Acta (Q1)</i>	5.7	5	28.5
86.	<i>Molecules (Q2)</i>	4.6	1	4.6
87.	<i>Monatshefte für Chemie (Q4)</i>	1.8	1	1.8
88.	<i>Nanoscale Research Letters (Q1)</i>	6.5	1	6.5
89.	<i>New Journal of Chemistry (Q2)</i>	3.3	1	3.3
90.	<i>Pakistan Journal of Pharmaceutical Sciences (Q4)</i>	0.8	1	0.8
91.	<i>Physica B: Condensed Matter (Q3)</i>	2.8	1	2.8
92.	<i>Polyhedron (Q2)</i>	2.6	1	2.6
93.	<i>Rapid Communication in Mass Spectrometry (Q2)</i>	2	1	2
94.	<i>Recent Patents on Nanotechnology (Q3)</i>	2	1	2
95.	<i>RSC Advances (Q2)</i>	3.9	4	15.6
96.	<i>Scientific Reports (Q2)</i>	4.6	6	27.6
97.	<i>Separation and Purification Technology (Q1)</i>	8.6	1	8.6
98.	<i>Solid State Sciences (Q2)</i>	3.5	1	3.5
99.	<i>Surfaces and Interfaces (Q1)</i>	6.2	1	6.2
100.	<i>Sustainable Materials and Technologies (Q1)</i>	9.6	2	19.2
101.	<i>Talanta (Q1)</i>	6.1	2	12.2
102.	<i>TrAC Trends in Analytical Chemistry (Q1)</i>	13.1	1	13.1
103.	<i>World Journal of Microbiology & Biotechnology (Q2)</i>	4.1	1	4.1
104.	<i>Patents</i>	-	3	-
105.	<i>Book (Springer Nature)</i>	-	1	-
106.	<i>Book Chapters (Springer Nature; John Wiley & Sons; CRC Press; Elsevier)</i>	-	21	-

Cumulative Impact Factor: **848**

Research Contributions (Cumulative Impact Factor: 848; Citations: >5747; h-index: 39; i10 Index: 121; Q1 75; Q2 54; Q3 27; Q4 18)

Patents

1. **Najam-ul-Haq, M.**; Hussain, D.; Kanwal, T.; Musharraf, S. G. Smartphone-Assisted Fluorescent Sensor for Rapid On-site Detection of Diabetes and Nitenpyram. Patent Filed. September 2023; Application No. 650/2023.
2. Batool, M.; Saeed, U.; Fatima, B.; **Najam-ul-Haq, M.** Radiotracer Labelled Nanoformulation of Thymohydroquinyll Gallate Capped Gold Nanoparticles: A Targeted Theragnostic Radio Pharmaceuticals. Patent Filed. February 2023.
3. Batool, M.; Hussain, D.; Akrem, A.; **Najam-ul-Haq, M.**; Saeed, S.; Zaka, S. M.; Saeed, Q. NanoBioPesticide. Patent Filed. December 2019; Application No. 112/2023.
4. Bonn, G. K.; Feuerstein, I; Huck, C. W.; **Najam-ul-Haq, M.**; Rainer, M.; Stecher, G.; Schwarzmann, G.; Steinmüller-Nethl, D.; Steinmüller, D. Target for Laser Desorption Ionisation Mass Spectrometry. WO2005096346A3; US20080054171 A1.1985. Patent No.: 1738397
5. Steinmueller-Nethl, D.; Steinmueller, D.; Kloss, F. R.; Gassner, R.; Bonn, G. K.; Huck, C. W.; **Najam-ul-Haq, M.**; Rainer, M.; Stecher, G. Biological Surfaces. US8753661B2 2006.
6. Steinmueller-Nethl, D.; Steinmueller, D.; Kloss, F. R.; Gassner, R.; Bonn, G. K.; Huck, C. W.; **Najam-ul-Haq, M.**; Rainer, M.; Stecher, G. Biological Surfaces with Attached Molecules for Implants and Medical Goods. WO2006060836 A1 20060615 2006.

Book

7. Ahmed, S.; Ojha, S. C. **Najam-ul-Haq, M.**; Younus, M.; Hashmi, M. Z. Biochemistry of Drug Resistance; 1st Edition; Springer Nature, 2021, ISBN-978-3-030-76320-6, DOI: 10.1007/978-3-030-76320-6.

Book Chapters

8. Iqbal, S.; Jabeen, F.; Kainat, S.; Ashraf, S.; Hussain, D.; Sajid, M. S.; Ashiq, M. N.; **Najam-ul-Haq, M.** Chapter 19: Nanomaterials in Electrochemical Biosensors. In Micro and Nanotechnologies, Handbook of Nanomaterials, Volume 1, Elsevier, 2024, 483-511; ISBN 9780323955119

9. Abid, M. S.; Jabeen, F.; Sajid, M. S.; Hussain, D.; **Najam-ul-Haq, M.**; Ressom, H. W. Chapter 2: Nanomaterials in Separation Science. In *Micro and Nanotechnologies, Handbook of Nanomaterials, Volume 2*, Elsevier, **2024**, P 29-46; ISBN 9780323955133
10. Rasheed, S., Ahmad, N.; Waqas, M.; Fatima, B.; Mohyuddin, A.; Jabeen, F.; **Najam-ul-Haq, M.**; Hussain, D. Chapter 6: Nanobiointerface. In *Micro and Nanotechnologies, Handbook of Nanomaterials, Volume 2*, Elsevier, **2024**, P 131-151; ISBN 9780323955133
11. Ashraf, S.; Jabeen, F.; Iqbal, S.; Sajid, M. S.; Ashiq, M. N.; **Najam-ul-Haq, M.** Chapter 10: Carbon Dots in Photothermal Therapy. In *Carbon Dots in Biology: Synthesis, Properties, Biological and Pharmaceutical Applications*, Berlin, Boston: De Gruyter, **2023**, ISBN: 9783110799958
12. Jawad, S. E. Z.; Fatima, B.; **Najam-ul-Haq, M.** Chapter 12; Metal Phosphates/Phosphonates for Biofuels. In: Gupta, R. K. (eds) *Metal Phosphates and Phosphonates. Engineering Materials*; Springer, Cham, **2023**, ISBN: 978-3-031-27062-8
13. Saeed, U.; Fatima, B.; **Najam-ul-Haq, M.** Chapter 8; Innovative Electronic Approaches for Biomarker Detection in: *Bioelectronics, Materials, Technologies, and Emerging Applications*; CRC Press, **2022**, ISBN: 9781003263265.
14. Majeed, S.; Farooq, M. U.; Naqvi, S. T. R.; Khan, N. A.; Fatima, B.; Hussain, D.; Ali, F.; **Najam-ul-Haq, M.** Chapter 8; Bioinspired Prosthetic Interfaces for Bioelectronics in: *Bioelectronics, Materials, Technologies, and Emerging Applications*; CRC Press, **2022**, ISBN: 9781003263265.
15. Ashiq, M. N.; Manzoor, S.; Abid, A. G.; **Najam-Ul-Haq, M.** Chapter 13; Nanocrystals for Environmental Remediation in: *Nanotechnology for Environmental Remediation*; Wiley-VCH GmbH, **2022**, ISBN: 978-3-527-83415-0.
16. Majeed, S.; Naqvi, S. T. R.; **Najam-ul-Haq, M.**; Ashiq, M. N. Chapter 10; Electroanalytical techniques in biosciences: conductometry, coulometry, voltammetry, and electrochemical sensors in: *Analytical Techniques in Biosciences*; Academic Press, **2022**, ISBN: 9780128226544, DOI: 10.1016/B978-0-12-822654-4.00004-X
17. Ashiq, M. N.; Manzoor, S.; Abid, A. G.; **Najam-ul-Haq, M.** Chapter 14; Nanocrystals for Environmental Remediation in: *Nanotechnology for Environmental Remediation*; Wiley, **2022**, ISBN: 9783527834143, DOI: 10.1002/9783527834143
18. Ahmad, N.; Rasheed, S.; Fatima, B.; Majeed, S.; Mohyuddin, A.; **Najam-ul-Haq, M.**; Hussain, D. Chapter 11; MOF-based Electrochemical Sensors for Toxic Anions in: *Metal-Organic Frameworks-Based Hybrid Materials for Environmental Sensing and*

- Monitoring; CRC Press, **2022**, ISBN: 978-1-00-318814-8, DOI: 10.1201/9781003188148
19. Saeed, U.; Batool, R.; Hussain, D.; Majeed, S.; **Najam-ul-Haq, M.**; Fatima, B. Chapter 22; MOF-based Electrochemical Sensors for Glucose in: Metal-Organic Frameworks-Based Hybrid Materials for Environmental Sensing and Monitoring; CRC Press, **2022**, ISBN: 978-1-00-318814-8, DOI: 10.1201/9781003188148
 20. Majeed, S.; Farooq, M. U.; Naqvi, S. T. R.; Fatima, B.; **Najam-ul-Haq, M.**; Majeed, S.; Ali, F.; Khan, N. A. Chapter 25; MOF-based Electrochemical Sensors for DNA/RNA/ATP in: Metal-Organic Frameworks-Based Hybrid Materials for Environmental Sensing and Monitoring; CRC Press, **2022**, ISBN: 978-1-00-318814-8, DOI: 10.1201/9781003188148
 21. Majeed, S.; Farooq, M. U.; Khan, N. A.; Fatima, B.; Majeed, S.; Anjum, S.; **Najam-ul-Haq, M.**; Ali, F.; Naqvi, S. T. R. Chapter 15; MOF-based Electrochemical Sensors for Hydrogen Peroxide in: Metal-Organic Frameworks-Based Hybrid Materials for Environmental Sensing and Monitoring; CRC Press, **2022**, ISBN: 978-1-00-318814-8, DOI: 10.1201/9781003188148
 22. Ashraf, S.; Bashir, N.; Rashid, N.; Chughtai, A. H.; Zia, K. M.; Majeed, S.; Ashiq, M. N.; Murtaza, G.; **Najam-ul-Haq, M.** Chapter 1; Introduction to Drugs, Drug Targets and Drug Resistance in: Biochemistry of Drug Resistance; 1st Edition; Springer Nature, **2021**, ISBN-978-3-030-76320-6, DOI: 10.1007/978-3-030-76320-6.
 23. Sajid, M. S.; Saleem, S.; Jabeen, F.; Fatima, B.; Saeed, A.; Hussain, D.; Majeed, S.; Ashiq, M. N.; **Najam-ul-Haq, M.** Chapter 8; Drugs Resistance in Lungs Diseases in: Biochemistry of Drug Resistance; 1st Edition; Springer Nature, **2021**, ISBN-978-3-030-76320-6, DOI: 10.1007/978-3-030-76320-6.
 24. Rashid, N.; Hussain, D.; Ashraf, S.; Bashir, N.; Majeed, S.; Ashiq, M. N.; **Najam-ul-Haq, M.** Chapter 10; Drug Resistance in Kidney Diseases in: Biochemistry of Drug Resistance; 1st Edition; Springer Nature, **2021**, ISBN-978-3-030-76320-6, DOI: 10.1007/978-3-030-76320-6.
 25. Fatima, B.; Jamil, M.; Hussain, D.; Saeed, A.; Jabeen, F.; Sajid, M. S.; **Najam-ul-Haq, M.** Chapter 13; Drug Resistance in Cancer in: Biochemistry of Drug Resistance; 1st Edition; Springer Nature, **2021**, ISBN-978-3-030-76320-6, DOI: 10.1007/978-3-030-76320-6.
 26. Jabeen, F.; Sajid, M. S.; Saeed, A.; Fatima, B.; Hussain, D.; Majeed, S.; Ashiq, M. N.; **Najam-ul-Haq, M.** Chapter 14; Drugs Resistance and Treatment Failure in HIV and /

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Poster Presentations

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