

ANEELA ANWAR

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Highlights

- Recipient of the prestigious ELAINE Collaborative Research Grant, serving as a Visiting Professor Scientist in Germany to advance international research collaboration
- PhD from University College London, UCL, UK, ranked among the world's top 10 universities
- Recipient of the highly competitive IDB High Merit Scholarship for PhD studies in recognition of exceptional academic achievements and research excellence
- Fulbright Postdoctoral Fellow, United States, Awarded one of the world's most prestigious and highly competitive international research fellowships
- Leadership Excellence Award, Sri Lanka, 2025
- Best Researcher Award 2024-2025, UET, Lahore
- Kings Award for Excellence in Bionanotechnological Research 2024 London, UK
- Emerging Leader Award 2024 for Outstanding Contributions and Leadership in the field of Education from the US Consul General, Fulbright Pakistan-US Alumni Network.
- Associate Fellow Higher Education Academy UK
- Fellow Women Leadership Program, Michigan State University, United States
- Frogh-e-Taleem Gold Medal Award, Governor Punjab, Pakistan
- TechWomen Mentor, United States
- Official member of the Environment and Energy Interest Group under the Fulbright Pakistan-US Alumni Network to promote a cleaner, greener environment in Pakistan
- Nominated researcher for "Establishing the Pakistan Climate Resilience Research Coordination Network" (PAK-Climate RCN) under HESSA, 3 years Program of USAID and

University of Utah, United States

- **Best PhD Abstract Award from IDB Scholarship at Cambridge University UK.**
- **Best Presenter Award, International Conference on Nanomaterials at Cambridge UK.**
- **Women Leadership Award 2023 from International Women Leadership Conference.**
- **Roll of Honour in Bachelors, distinction in Masters**
- **Fulbright Mentorship and Postdoctoral Reviewer**
- **Official Trainer for Grade 19-20 Teachers in Higher Education**
- **Council Member Women in Science Foundation**
- **Convener Standing Committee, Academia-Industry Linkages, Women Chamber of Commerce and Industry**
- **National Heroes Award as Best Peace Educationist Performer**
- **Nominated Researcher for Biomaterials Science Award 2024, RSC, UK**
- **101 Incredible Women of Power Pakistan**
- **Co-founder of the Akhira Project, supporting deserving students, marginalized communities, and individuals with disabilities through education and empowerment.**

EDUCATION

Sr. No.	Duration	Degree	Titles/Majors
1	2018-2019	Fulbright Postdoctoral Fellowship, USA	Nanotechnology/Materials Chemistry
2	2011-2014	PhD, UCL, UK	Inorganic/Materials Chemistry
3	2003-2005	M.Phil, UET, Lahore	Organic Chemistry
4	2000-2002	M.Sc, UET, Lahore	Inorganic/Analytical Chemistry
5	1998-2000	B.Sc Queen Mary College, Lahore	Chemistry, Botany, Zoology

RELEVANT EXPERIENCE

Fulbright Postdoctoral Fellowship, Stevens Institute of Technology, New Jersey, USA

My Postdoc research work was based on **“Novel Design, Entrepreneurship and commercialization of nanoscale biomaterials for bone cancer treatment and other biomedical applications”** supervised by Prof. Dr. Xiaojun Yu. This research investigates the novel synthesis

methodologies for the fabrication and analysis of various green nanoscale biomedical composite materials produced by electrospinning in order to obtain hybrid structures with improved mechanical and biological properties for healthcare and environmental applications. The physical, mechanical, and biological performances of these nanobiomaterials were then assessed and compared with its constituent materials for scale up synthesis.

PhD in Inorganic/ Materials chemistry, University College London, UK

My PhD research work was based on “**Continuous Plastic Flow Synthesis and Characterization of Nanoscale Bioceramics**” supervised by Prof. Dr. Quentin Pankhurst. This particular work investigates novel methodologies for the green synthesis of various high purity nanobiomaterials with remarkably high surface area and small particle size (ever reported) for biomedical applications such as bone graft substitutes, coating on metallic implants, reinforcement in biomedical composites and in bone and dental cements, tooth pastes and radiopaque fillers for dental compositematerials.

- Developed new research methodologies for the ecofriendly synthesis of various nanoscale biomaterials through personal initiative resulting in patent publication
- Synthesis and characterization of silicon and carbonate based nanocomposite biomaterials for various biomedical applications
- Experience in fabrication and handling of various high purity nanomaterials e.g, Titania and Magnetite nanoparticles for waste water treatment
- Detailed studies on Electrophoretic Deposition (EDP) coatings on metallic implants
- *In-Vitro* cell culture analysis of various nonobioceramics for biocompatibility studies
- Detailed study on chemical surface modification for controlled particle growth and stable dispersion using various organic acids
- Expertise in nanomaterial's characterizations using TEM, SEM, AFM, BET, DLS, XPS, TGA, XRD, FTIR, Raman, EDP, NMR, SQUID, DLS, Zeta Potential measurement
- Expertise in patent and paper writing for various high impact journals
- Collaborations with industrial partners during PhD (e.g, Baxter and Accentus UK, Polysciences USA).
- Designed product data sheets for national and international collaborators
- Presented patented work on national and international conferences
- Achieved best PhD abstract award from IDB High Merit Scholarship

M.Phil in Organic Chemistry, University of Engineering and Technology, Pakistan

‘Eco-friendly Monochlorotriazine reactive dyes based on 4,4 Diamino diphenyl amine-2-sulphonic acid’ supervised by Prof. Fazeelat Tahira.

- Experience of designing and synthesis of dye synthesis
- Spectroscopic analysis using FTIR, AAS, UV Visible etc.
- Design of molecules for solubility in different media
- Applications on different fabrics
- Synthesis of various electrophilic and nucleophilic Imine based metal complexes
- Spectroscopic analysis using FTIR, AAS, TGA, DTA etc.
- Applications in dyes

M.Sc in Inorganic/Analytical Chemistry, University of Engineering and Technology, Pakistan

“Effect of electron withdrawing groups on the stability of metal (II, III) complexes with N, O containing chelates” Supervised by Dr. Ayesha Chaudhary

UK CERTIFICATIONS

- AFHEA, Certified Associate Fellow Higher Education Academy, UK
- ECDL (European Computer Driving License), UK
- Pronunciation and public speaking, UK
- Academic writing, UK
- Thesis writing, UK
- Teacher as a facilitator, UK
- Residential courses on Teacher training, UK

HONOURS AND AWARDS

- Fulbright Postdoc Scholarship Award, USA
- IDB High Merit Scholarship award for PhD, UK
- HEC Partial Support award for PhD
- King's Award for Excellence 2024 London
- Official member of the Environment and Energy Interest Group under the Fulbright Pakistan-US Alumni Network to promote a cleaner, green and safer environment in Pakistan
- Best Presenter award, Scientific Symposium, Cambridge University, UK.
- Women Leadership award 2023
- Outstanding Reviewer award, Ceramics International, Elsevier Journal
- HEC Reviewer for NRPU Grants 2020
- Reviewer for Fulbright Postdoc Fellowship 2023
- Star Performer Award at Forman Christian College, A Chartered University, Lahore
- Talented Teacher Award, UET, Pakistan
- Second Position in M.Phil
- Third Position in M.Sc
- Roll of Honour in B.SC
- Council Member, Women in Science Organization, Pakistan
- National Heroes Award as Best Peace Educationist Performer

PROFESSIONAL MEMBERSHIPS

- **AFHEA** – Associate Fellow of Higher Education Academy, UK
 - **Associate Member** – Royal Society of Chemistry
 - **Member--** Environment & Energy Interest Group, Fulbright, Pakistan-U.S. Alumni Network.
 - **Member** – ASPIRE Group Ltd, Pakistan
 - **Council Member** –Women in Science Foundation
 - **Member** --International Review Committee, ICMSN, Cambridge
 - **Member** -- Materials Research Society, United States
 - **Member** – American Chemical Society
 - **Member** – Chemical Physical Society
 - **Member** – European Society of Biomaterials
 - **Member** – Society of Chemical Industry
 - **Life Member** – Chemical Society of Pakistan
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POSITIONS AND ROLES

Sr. No.	Duration	Position	Place	Major Responsibilities
1	12-07-2017-12-09-2022	Chairperson	University of Engineering and Technology, New campus, Lahore	Launched various degree programs in Chemistry, Physics, Mathematics and Environmental Sciences with innovative curriculum design.
2	23-01-2025-07-04-2026	Director Faculty and Staff Development Program	University of Engineering and Technology, Lahore	Organized 22 Training Workshops and Seminars in year 2025 along with International Faculty Exchange Program Series
3	13-08-2021-12-09-2022	Convener, Financial Aid & Career Service (FACS)	University of Engineering and Technology, Lahore, New Campus	Facilitated Student Scholarships, Industry Linkages, Career Counseling and Employability
4	01-06-2017-01-06-2019	Acting Chair, Computer Science Department	University of Engineering and Technology, Lahore, New Campus	Supported Interdisciplinary collaboration, Ensured smooth functioning of academic activities and resources
5	21-08-2017-12-09-2022	Head Women Sports and Girls Student Affairs	University of Engineering and Technology, Lahore, New Campus	Ensured safe, inclusive and supportive environment for female students, conducted women leadership Activities
6	10-04-2021 till date	Professor	University of Engineering and Technology, Lahore	Research and Teaching Managing Environmental, Energy and Healthcare Research projects
7	29-08-2016-10-04-2021	Associate Professor	University of Engineering and Technology, New campus, Lahore	Research and teaching, Establishment of Environmental Science research labs
8	25-06-2007-29-08-2016	Assistant Professor	University of Engineering and Technology, KSK campus, Lahore	Research and teaching, Laboratory setup and design of experiments
9	01-09-2002-25-06-2007	Lecturer	Forman Christian College University, Lahore. GIFT University, Gujranwala.	Research, Tutoring and Mentoring

PATENTS

1. Darr, J., Anwar A. "Group 2 metal phosphates" Patent WO2015052495 A1. 16 April, 2015.
2. Aneela Anwar, Amna Shoaib, Process for Making Biofungicides By Encapsulating Titania-HA Nanocomposite Structure, December 1, 2023
3. Aneela Anwar, Muhammad Sarfaraz, Advanced Nanoformulation of Antimicrobial Bioceramic Membranes for Sustainable Water Purification and Desalination, Patent Filed, February 27, 2025
4. Aneela Anwar, Muhammad Tahir Khan, Hassam Akram Khan, Nanocure: Targeted drug delivery via computational aided drug design and experimental validation, Patent Filed, August 6, 2025.
5. Aneela Anwar, Iqra Yousaf, A Fish Collagen-Based Nano-Herbal Scaffold Enriched with Polysaccharides for Regenerative Diabetic Wound Therapy, Patent Filed, August 6, 2025
6. Aneela Anwar, Sadaf Ameen, Javaria, "UCPFR Synthesis of Ag-Doped Hydroxyapatite: Towards Antibacterial Effectiveness, Wound Healing and Pollutant Removal", Patent Filed, April 22, 2026

SELECTED PUBLICATIONS (Cumulative Impact Factor $\approx$ 237.95)

- Nimra Iqbal, Amna Shoaib,* **Aneela Anwar**, and Nayab Raza, Nano-Titanium-Chitosan Beads as a Biofungicidal Strategy against Anthracnose Stalk Rot in Maize, Journal of Agricultural and Food Chemistry, <https://doi.org/10.1021/acs.jafc.5c12641>, 2026, IF: 6.2.
- Muhammad Shahid Sami 1,† , Fida Hussain 2,† , Ammarah Mushtaq 2 , Jalal Shah 1 , Sang-Eun Oh 2, *and Aneela Anwar 1,* , Advanced TiO₂–SiO₂–Biochar Thin-Film Nanocomposite Membranes for High-Performance Removal of Dyes and Heavy Metals from Wastewater, <https://doi.org/10.3390/w18121480>, 2026, Water, IF: 3.5
- Samina Farid, Ashi Rashid, **Aneela Anwar**, One step-dealloying approach to fabricate Pb catalysts with tuned electronic and structural programming for efficient CO₂ conversion to formate, Surfaces and Interfaces, <https://doi.org/10.1016/j.surfin.2026.109282>, IF: 6.3
- Hassam Khan, **Aneela Anwar***, Tahir Khan, "Design and Characterization of Ftaxilide-Conjugated VPA-Hydroxyapatite Nanohybrids for Anti-mycobacterial Applications", R. Soc. Open Sci. 13: 251903, <https://doi.org/10.1098/rsos.251903>, 2026: IF: 2.9.
- Samina Farid, Ashi Rashid, **Aneela Anwar**, Chemically and Electrochemically Modified Surface of In–Sn Alloy Catalysts for Highly Selective CO₂ Reduction to Formate, March 2026, Electrocatalysis, DOI:[10.1007/s12678-026-01023-2](https://doi.org/10.1007/s12678-026-01023-2), IF: 2.8
- Sana Mehreen, Nayab Raza, **Aneela Anwar***, Amna Shoaib, Green Synthesis and Characterization of Zinc Oxide Nanoparticles Using *Citrus sinensis* Leaf Extract for Antifungal Activity Against *Macrophomina phaseolina*, *ChemistrySelect*, 2026; 11:e04733 , <https://doi.org/10.1002/slct.202504733> , IF: 2.0
- Q.Mushtaq, M.Akhtar, D.Fatima, M.Haider, **A. Anwar**, A. Intisar, Carbon nanotubes: conventional and green methods of synthesis and adsorptive mitigation of pharmaceuticals from water, International Journal of Environmental Science and Technology, 02, February 2026, IF: 3.4

- Nayab Raza, **Aneela Anwar***, Amna Shoaib, Shahzeb Khan, Azeem Intisar, Muhammad Salman Habib, Faisal Irshad, Catalyzing innovation: exploring the potential of ecofriendly synthesized magnetic iron oxide nanoparticles for heavy metals removal from water, Discover Nano, [10.1186/s11671-025-04342-3](#). March 2026, IF: 4.5
- Nayab Raza; **Anwar Aneela***, Amna Shoaib, Shahzeb Khan, Shazia Ilyas, Azeem Intisar, Mohsin Kazi, EDTA-Functionalized Iron Oxide Nanoparticles: Enhanced Adsorptive Removal of Toxic Elements from Water, Nanotechnology Reviews, 2026 ,IF:7.4
- **Aneela Anwar***, Ayesha Sadiqa, Azeem Intisar, Amin Ur Rashid, Tabassam Razaq, Samar A. Aldossari, Mohammed Sheikh Saleh Mushab, Dong Yong Park, and Dongwhi Choi, Synergistic Effect of Advanced Hydroxyapatite-Magnetite Nanocomposites in Magnetic Hyperthermia for Bone Cancer Treatment, Nanotechnology Reviews, June 15, 2024; 13: 20230225, IF: 7.7.
- Syeda Saba Batool, **Aneela Anwar***, Amna Shoaib, Shamsa Mubeen, Azeem Intisar, Shahzeb Khan, Mohsin Kazi, Green Synthesis of Silver Nanoparticles from Glycine max Pods: Potential Anti-Cancer Activity Against Hepatocellular Carcinoma, Int J Med Rev 2024 December;11(4): 830-841.
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- Zohaib Waheed, **Aneela Anwar***, Ayesha Sadiqa, Awais Ahmad, Azeem Intisar, Arshad Javaid, Iqra Haider Khan, Bushra Nisar Khan, Shahzeb Khan, Mohsin Kazi, Advancing sustainable agriculture: Metal doped urea hydroxyapatite-hybrid nanofertilizer for agro-industry, October 22, 2024, Nanotechnology Reviews, IF: 7.7
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- **Aneela Anwar***, Qudisia Kanwal, Ayesha Sadiqa, Tabassam Razaq, Iqra Haider Khan, Arshad Javaid, Safia Khan, ElSayed Tag-Eldin and Mohamed Ouladsmene, Synthesis and Antimicrobial Analysis of High Surface Area Strontium-Substituted Calcium Phosphate Nanostructures for Bone Regeneration, *Int. J. Mol. Sci.* 2023, 24, 14527, IF: 5.6
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- Muhammad Aqib, **Aneela Anwar***, Humayun Ajaz, Samina Akbar, Ahsan Manzoor, Maham Abid, Zohaib Waheed, Qudsia Kanwal, Metal-Doped Brushite Cement for Bone Regeneration, *Journal of Bionic Engineering*, JBEN-D-23-00042R4, July 24, 2023, IF: 3.275.
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- Khalida Naseem, Muhammad Arif, **Aneela Anwar**, Sajjad Haider, Muhammad Saeed Akhtar, Investigating adsorptive potential of *Raphanus caudatus* leave biomass for methyl orange dye: isotherm and kinetic study, *Zeitschrift fur Physikalische Chemie*, <https://doi.org/10.1515/zpch-2023-0255>, June 13, 2023. IF: 4.315
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structure with primitive nanochannels for fabrication of free standing 3D nanowire network of Pt with Pm3m symmetry, Journal of Nanotechnology, Vol. 33, 2022. IF: 3.874

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- Aqsa Zafar, Javaid, Iqra Haider Khan, Ejaz Ahmed, Hamza Shehzad, **Aneela Anwar** Synthesis Of 4-Hydroxyazobenzene, A Promising Azo Dye For Antifungal Activity Against Macrophomina Phaseolina, Plant Protection, 06 (02) 2022. 143-149
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- Samina Akbar, **Aneela Anwar**, Abdullah Ayish, Joanne M Elliott, Adam M Squires, Phytantriol based smart nano-carriers for drug delivery applications, European Journal of Pharmaceutical Sciences 101 (2017) 31–42. **IF: 4.6**.
- **Aneela Anwar***, Ihtesham U Rehman, Jawwad A Darr, Low Temperature Synthesis and Surface Modification of High Surface Area Calcium Hydroxyapatite Nanorods Incorporating Organofunctionalized Surfaces, The Journal of Physical Chemistry C, 2016, 120 (51), pp 29069–29076. **IF: 4.50**
- **Aneela Anwar***, Samina Akbar, Ayesha Sadiqa, Mohsin Kazmi, Novel continuous flow synthesis, characterization and antibacterial studies of nanoscale zinc substituted hydroxyapatite bioceramics, Inorganica Chimica Acta 453 (2016) 16–22. **IF: 2.8**
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characterization of carbonated hydroxyapatite nanocrystals. Journal of Molecular Structure ¹² 2016;1117:283-6. **IF: 3.8**

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- Mazhar Abbas, M. Afzal Qamar, S. Ehtisham-ul-Haque³, M. Kamran Rafique, **Aneela Anwar**, Nasir Masood, M. Asif Tahir, Numrah Nisar, Munawar Iqbal, Influence of Aleyrodidae Fly Population on Cotton Crop Diseases under Different Environmental Conditions, Pol. J. Environ. Stud. Vol. 26, No. 2 (2017), 511-516. **IF: 1.8**
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- Qudsia Kanwala, **Aneela Anwar**, Samina Akbar, Munawar Iqbal, Dure Najaf Iqbal, Numrah Nisar, Ishtiaq Hussain, An eco-friendly approach to control Oxya velox infestation: Mangifera indica exoglucanase and endoglucanase cellulose ingestion inhibition activity, Biocatalysis and Agricultural Biotechnology 10, 2017, 209-215. **IF: 4.0**
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- **Aneela Anwar***, Mohsin Kazmi, Zohaib Atiq Khan, Khurram Shahzad, Sadiq Hussain, Synthesis and Characterization of Calcium Deficient Hydroxyapatite Nanocrystals, Journal Of Faculty Of Engineering & Technology, Vol 23, No 2 (2016).

- Muhammad Shahzad Zafar, Syed Waqas Ahmad, Mohsin Ali Kazmi, Shahid Raza Malik, **Aneela Anwar**, Riddance of spent dye from Textile Runoff, Journal of Faculty Of Engineering & Technology, Vol 22, No 1 (2015).

ABSTRACTS / CONFERENCE PRESENTATIONS

- **Aneela Anwar***, International Speaker and Session Chair, Speaker, Development and characterization of cpfs synthesized titanium hydroxyapatite composite scaffolds fabricated by 3d printing for biomedical applications", June 17-19, Fraunhofer, Lubeck, Germany.
- **Aneela Anwar***, Invited Speaker, From innovation to Impact: Entrepreneurship and Commercialization in Environmental, Biomedical and Commercialization, April 27, 2026 Baba, Guru Nanank University.
- **Aneela Anwar***, Invited Speaker, Nanotechnology for Environmental Sustainability and a Greener Future: Challenges, Oppertunities and Future Perspectives, April 2, Department of Chemistry, Government College Women University, Sialkot.
- **Aneela Anwar***, Session Chair and Invited Speaker, Fabrication of a Multifunctional Antimicrobial Nanocomposite Membrane for Sustainable Water and Air Purification", International Conference – ASIC Pakistan Mitigation Series in collaboration with UC DAVIS USA, 9-10, December 2025, Marriot Hotel Islamabad.
- **Aneela Anwar***, Invited speaker, Fabrication and Analysis of Multifunctional Antimicrobial Nanocomposite Membranes for Sustainable Water Purification, International Conference on Environmental Pollution and Remediation, organized by the Department of Environmental Science on December 2, 2025, Forman Christian College (A Chartered University), Lahore.
- **Aneela Anwar***, Sadaf Ameen, Invited speaker, Advanced Ceramic-Based Nanocomposite Structures For Environmental Protection And Healthcare Applications, 3rd International Chemistry Conference on Emerging Trends in Chemistry (3rd CCUMT-2025) organized by the Department of Chemistry on April 10-12, 2025, University of Management and Technology, Lahore.
- **Aneela Anwar***, Invited Speaker, Nanotechnology for a Greener Future: Innovations in Environmental and Healthcare Solutions. May 28, 2025 at Institute of Nanotechnology, Gebze Technical University, Turkey.
- **Aneela Anwar**, Sadaf Ameen, Invited speaker, Entrepreneurship and Commercialization of Antimicrobial Nanocomposite Membranes for Sustainable Water and Air Purification, 4th International Conference on Chemical and Pharmaceutical Sciences: Innovation to Commercialization, organized by the Department of Chemistry on January 22-24, 2025, Forman Christian College (A Chartered University), Lahore.
- **Aneela Anwar***, Invited Speaker and Co-Chair, Low temperature continuous polymeric flow synthesis of nanocomposite materials for environment and healthcare applications at International Conference on Research Advancements in Chemistry (ICRA-C 2024)' Friday, 21st – 23rd August 2024 at Department of Chemistry, SNS-NUST, H-12, Islamabad,

- **Aneela Anwar***, Invited Speaker, Low temperature continuous polymeric flow synthesis of nanocomposite materials for environment and healthcare applications at 3rd International Conference on Trends and Research in Chemistry, 6, 7th November 2024, University of Education, Lahore.
- **Aneela Anwar***, Invited Speaker, Antimicrobial Nanomembrane Innovation: Sustainable Water and Air Purification for Climate Mitigation at International Conference on Addressing Climate Change and Financial Stability: Innovations in Pharmacy Research, November 5, 2024 at Superior University.
- **Aneela Anwar***, Invited Speaker, Empowering Research Excellence: Proven strategies for securing global grants, October 8, 2024 at University of Management and Technology, Lahore.
- **Muhammad Aqib, Farrukh Raja, Aneela Anwar***, Synthesis and Characterization of Metal-Doped Brushite Cement for Bone Regeneration at International Conference on Research Advancements in Chemistry (ICRA-C 2024)' Friday, 21st – 23rd August 2024 at Department of Chemistry, SNS-NUST, H-12, Islamabad, Pakistan.
- **Sana Mehreen, Aneela Anwar***, Nanoceramic Based Antimicrobial Composite Membranes: Sustainable Advances in Water Purification and at International Conference on Research Advancements in Chemistry (ICRA-C 2024)' Friday, 21st – 23rd August 2024 at Department of Chemistry, SNS-NUST, H-12, Islamabad, Pakistan.
- **Uzma Fiaz, Aneela Anwar***, Innovative titania-based- Nanomembranes: A breakthrough in desalination and antimicrobial applications at International Conference on Research Advancements in Chemistry (ICRA-C 2024)' Friday, 21st – 23rd August 2024 at Department of Chemistry, SNS-NUST, H-12, Islamabad, Pakistan.
- **Syeda Saba Batool , Aneela Anwar***, Greener synthesis of glycine max derived nanoparticles for evaluation of anti-proliferative and apoptotic effect on hepatocellular carcinoma at International Conference on Research Advancements in Chemistry (ICRA-C 2024)' Friday, 21st – 23rd August 2024 at Department of Chemistry, SNS-NUST, H-12, Islamabad, Pakistan.
- **Muhammad Ahmad, Bisma, Aisha, Aneela Anwar***, Fabrication of metal-based electrospun nanomembranes for sustainable water purification.at International Conference on Research Advancements in Chemistry (ICRA-C 2024)' Friday, 21st – 23rd August 2024 at Department of Chemistry, SNS-NUST, H-12, Islamabad, Pakistan.
- **Nayab, Hassam, Sana Mehreen, Aneela Anwar***, Synthesis and characterization of Ecofriendly synthesized EDTA-coated Iron oxide Nanoparticles for removal of heavy metals from Wastewater at International Conference on Research Advancements in Chemistry (ICRA-C 2024)' Friday, 21st – 23rd August 2024 at Department of Chemistry, SNS-NUST, H-12, Islamabad, Pakistan.
- **Aneela Anwar***, Keynote Speaker of Public Lecture on, Entrepreneurship and Commercialization of Nanoscale Biomaterials for Environment Healthcare Applications, Universitas Bengkulu, Indonesia, June 4th, 2024.

- Nayab Raza, **Aneela Anwar***, Mariam Sohail, Furqana Bibi, Synthesis and characterization of Iron Oxide nanoparticles for sustainable and efficient water purification, International Conference on Application of Chemistry in Nanosciences and Biomaterials Engineering, 19-21 June 2024.
- **Aneela Anwar***, Keynote Speaker, Fabrication of antimicrobial nanocomposite membranes for sustainable water purification, International Conference on Materials Chemistry and Industrial Technologies, Department of Chemistry, University of Lahore, 24-25 April, 2024.
- **Aneela Anwar***, Invited Speaker at Nanotechnological Solutions for Mitigating Global Carbon Emissions and Climate Change, 17th Annual Fulbright Alumni Conference Climate Change Marriott Hotel Islamabad, January 12 - 14, 2024
- **Aneela Anwar***, Invited Speaker, **Ceamic based nanocomposite membrane structures for sustainable development**, organized by PMDFC, Punjab Municipal Development Fund Company on April 3, 2024.
- **Aneela Anwar***, Invited Speaker, Fabrication and Analysis of HA/PCL/CNT based Nanocomposite Structures for Environment and Healthcare, International Symposium on Environmental Applications of Carbon-Based Nanomaterials on 13th December 2023 at FCCU, Lahore.
- **Aneela Anwar***, Invited Speaker, Ceamic based nanocomposite structures for sustainable development, Conference on sustainable development (CSD), 14th December 2023 at Chemical Engineering Department, UET, Lahore.
- **Aneela Anwar***, Invited Speaker, Indigenous Technology Development for Pilot-scale Production of Water Purification and Desalination Membranes, 3rd International conference on "Water, Energy & Environment for Sustainability (IC-WEES) 2023," 16-18 August 2023 at the National University of Sciences and Technology (NUST) in Islamabad, Pakistan.
- **Aneela Anwar***, Speaker, Biodegradable Calcium Phosphate Based Nanocomposite Scaffolds For Cartilage And Bone Regeneration, 7th International Conference on Materials Sciences and Nanomaterials (ICMSN 2023) Cambridge, United Kingdom during July 11-13, 2023.
- **Aneela Anwar***, Invited Speaker, Green synthesis and characterization of various nanoscale biomaterials for healthcare, 3rd International Conference on Environment & Sustainable Development, on September 13, 2021, GC University Lahore.
- **Aneela Anwar***, US Socio-Economic Development Strategies in Pakistan, 15TH International American Studies Conference Webinar on June 16th & 17th, 2021
- **Aneela Anwar***, Xiaojun Yu, Biodegradable PCL-PLGA-Brushite Scaffolds for Bone Tissue Engineering, MRS, Fall meeting and exhibit, December 1-6, 2019, Boston, Massachusetts, United States.
- **Aneela Anwar***, Xiaojun Yu, Biodegradable calcium phosphate based nanocomposite scaffolds for cartilage and bone regeneration, CHI Symposium, Biomedical Engineering Department, Stevens Institute of Technology, Hoboken, NJ, United States.

- **Aneela Anwar***, A novel continuous flow route for the synthesis of phase pure brushite calcium phosphate nanoparticles, 5th Global Chemistry Congress September, 04-06, 2017 London, UK. Mod Chem Appl, an open access journal Volume 5, Issue 3, ISSN: 2329-6798.
- **Aneela Anwar***, Novel Microwave Assisted Continuous Flow Synthesis and Characterization of Calcium Deficient Hydroxyapatite Nanoparticles as a poster. 13th International Conference on Materials Chemistry (MC13), 2017, July 10-13 ACC Liverpool, UK
- **Aneela Anwar***, Low Temperature Synthesis and Surface Modification of Nanoscale Calcium Hydroxyapatite Bioceramics, Oral Presentation, International Conference on Recent Advances in Chemistry-2017, May 13-14.
- **A Anwar*** and J.A. Darr, Novel continuous flow synthesis and analysis of calcium phosphate nanomaterials for biomedical applications, J Bioengineer & Biomedical Sci 2015, Volume 5 Issue 1 <http://dx.doi.org/10.4172/2157-7013.S1.002>.
- **A Anwar*** and J.A. Darr, and Q Pankhurst, Synthesis and surface modification of hydroxyapatite nanorods incorporating functionalized surfaces for dental restoration, J Bioengineer & Biomedical Sci 2015, Volume 5, Issue 1 <http://dx.doi.org/10.4172/2157-7013.S1.003>
- **Aneela Anwar***, Novel continuous flow synthesis and characterization of various nanoparticles for biomedical applications, Oral Presentation, International Conference on Materials Science and Nanotechnology, September 2016, University of Lahore, Pakistan.
- **Aneela Anwar*** and Jawwad A Darr, Synthesis and surface modification of hydroxyapatite nanorods incorporating functionalized surfaces for dental restoration, Oral Presentation, International Conference on Significant Advances in Biomedical Engineering” during April 27-29, 2015 in Philadelphia, USA
- **Aneela Anwar*** and Jawwad A Darr, Novel Continuous Plastic Flow Synthesis of Phase Pure Nano-Sized Hydroxyapatite, Oral Presentation, 26th Annual Conference of the European Society for Biomaterials (ESB), Liverpool, UK from 31 August -3 September 2014.
- **Aneela Anwar*** and Jawwad A Darr, Novel Continuous Plastic Flow Synthesis of Phase Pure, Doped and Surface Grafted Nano-Sized Calcium Phosphates and Nanocomposites, **Oral Presentation** at 2nd USA International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT-USA), Texas (USA), 19-22 May 2014.
- **Aneela Anwar** and Jawwad A Darr, A novel continuous flow technique for the rapid synthesis of nano-hydroxyapatite and other calcium phosphate bioceramics, Oral Presentaion, IDBSSS 2014, 1st Scientific Symposium, May 22, 2014, in Cambridge, United Kingdom.
- **Aneela Anwar** and Jawwad A Darr, Novel Continuous (Plastic) Flow Synthesis and In-Vitro Analysis of Phase Pure Nano-Sized Hydroxyapatite and other Calcium Phosphates, International Nanomed Conference, University College London, UK, 26-28 February 2014, Oral presentation.

- **Aneela Anwar** and Jawwad A Darr, Novel continuous flow synthesis of nano-sized phase pure HA and other calcium phosphate biomaterials (β -TCP, CDHA and biphasic HA / β -TCP) at (near) ambient conditions, Poster Presentation, International Conference on Significant Advances in Biomedical Engineering” during April 27-29, 2015 in Philadelphia, USA
- **Aneela Anwar** and Jawwad A Darr, Novel continuous flow synthesis and characterization of various nanoparticles for biomedical applications, Poster Presentation, Faraday Discussion: Nanoparticle Synthesis and Assembly, 20-22 April 2015, Chicago, USA.
- **Aneela Anwar** and Jawwad A Darr, Novel continuous plastic flow synthesis and analysis of nanosized group 2 metal phosphate bioceramics for biomedical applications, Royal Society of Chemistry's Younger Member Symposium on 24th June 2014.
- **Aneela Anwar** and Jawwad A Darr, A Novel Continuous Plastic Flow Synthesis and In-vitro Analysis of High Surface Area Nano-Sized Hydroxyapatite and Other Calcium Phosphate Bioceramics, 8th Annual Conference of the RSC Biomaterials Chemistry Group, University of Manchester, UK, 7- 8 January 2014.
- **Aneela Anwar** and Jawwad A Darr, Continuous Plastic Flow Synthesis of Nano-bioceramics; Rapid Particle Sizing and In-vitro Analysis, Chemistry Postgraduate Open, 24th January 2014.
- **Aneela Anwar** and Jawwad A Darr, Rapid and Continuous Plastic Flow Synthesis and In- vitro Analysis of Phase Pure Nano-Sized Hydroxyapatite and Other Calcium Phosphates, 3rd Annual Postgraduate Symposium on Nanotechnology, University of Birmingham, UK, 16th, December 2013
- **Aneela Anwar** and Jawwad A Darr, Rapid and Continuous Flow Synthesis of Phase Pure, Doped and Surface Coated Nano-Sized Calcium Phosphates, Postgraduate Poster Session, University College London, UK, 26th June 2013
- **Aneela Anwar** and Jawwad A Darr, Continuous (Plastic) Flow Synthesis (CPFS) of Phase Pure HA and Other Calcium Phosphate Phases (β -TCP, CDHA and Biphasic HA / β -TCP) at (near) Ambient Conditions, International Nanomed Conference, University College London, UK, 7- 9 November 2012.

1. **BOOK CHAPTERS**

- Mir, S.; **Anwar, A.**; Dulijan, I.; Kumar, A.; Yu, X. (2020). Protein and peptide nanofiber matrices for the regenerative medicine. Artificial Protein and Peptide Nanofibers: Design, Fabrication, Characterization and Applications (pp. 327-350). Cambridge, MA: Woodhead Publishing.
- **Aneela Anwar**, Daniel Jerome Petrino Jr, Nicole Van Alstine, Xiaojun Yu, “Biodegradable electrospun nanofibrous scaffolds for bone tissue engineering” in the textbook *Bioengineering Technologies*, Methods in Molecular Biology; 3rd edition." Humana Press of Springer Science (2022)
- Azeem Intisar, Mateen Hedar, **Aneela Anwar**, Muhammad Rizwan Tariq, Muhammad Imran Din, Membranes with Green Nanoparticles, CAC: Applications of Green Nanomaterials in Analytical Chemistry Volume 111, Elsevier, 2024/02/19.
- Mateen Haider, Azeem Intisar, Zeshan Mutahir, Ejaz Ahmad, Ahsan Sharif, **Aneela Anwar**,

Green Nanomaterials for chromatographic separation, Elsevier, 2024/03/19.

- **Aneela Anwar**, Amna Shoaib, Sana Mehreen, Nayab Raza and Sadaf Ameen, Agricultural pollution and Phytomicrobiome, Elsevier, 2025
- Amna Shoaib, **Aneela Anwar**, Shagufta Perveen, Sidra Javed and Numan Ali, Impact of waterlogging on Phytomicrobiomes, Elsevier, 2025

TRAININGS/SEMINARS/WEBINARS

- Organized one-day Seminar on “**Give to gain- Women in Stem: Innovating the Future, as Director**, Faculty and Staff Development Program, UET, Lahore, March 09, 2026.
- Organized one-day Training Workshop on “**Advancing Health Literacy in Academics: Lifestyle-Focused Solutions for Managing Metabolic Diseases, as Director**, Faculty and Staff Development Program, UET, Lahore, February 16, 2026.
- Organized two-day experiential workshop titled “**From Friction to Facilitation: Rethinking the Role of Administration at UET**, Cohort 5, as Director Faculty and Staff Development Program held on November 5–6, 2025, at the Department of Architecture, UET Lahore.
- Organized one-day Training Workshop on “**Entrepreneurship as a Career Option, as Director, as Director** Faculty and Staff Development Program, UET, Lahore, January, 21, 2026.
- Organized an International Guest Speaker Session from Bradford University UK titled **Emulsion in Cosmetic Formulation Development and Processing**, as Director Faculty and Staff Development Program on Tuesday, 30th December 2025, at UET Lahore.
- Organized a transformative two-day training workshop titled “**Achieving Global Research Excellence: Smart Strategies for High-Impact Scientific Publications in International Journals, as Director** Faculty and Staff Development Program, November 18–19, 2025, at the Smart Classroom, New Auditorium, UET Lahore.
- Organized two-day experiential workshop titled “**From Friction to Facilitation: Rethinking the Role of Administration at UET**, as Director Faculty and Staff Development Program held on November 5–6, 2025, at the Department of Architecture, UET Lahore.
- Organized Cohort 3 of its two-day experiential workshop titled: **From Friction to Facilitation: Rethinking the Role of Administration at UET** as Director Faculty and Staff Development Program The workshop took place on September 22–23, 2025, at Masood Hall, Electrical Engineering Department, UET Lahore.
- Organized a three-day training workshop on “**Outcome-Based, Data-Driven, & Inclusive Education**” as Director Faculty and Staff Development Program from September 3–5, 2025, at Masood Hall, Electrical Engineering Department, UET Lahore.
- Organized an International Guest Speaker Session titled **Expanding Horizons: Unlocking Global Grants, Collaborations & Opportunities** on Friday as Director Faculty and Staff Development Program, 29th August 2025, at UET Lahore.
- Organized cohort 2 of two-day experiential workshop, “**From Friction to Facilitation: Rethinking the Role of Administration at UET**”, as Director Faculty and Staff Development Program on August 7th & 8th, 2025, at Masood Hall, Electrical Engineering Department, UET Lahore.
- Organized one-day workshop on “**Empowering your research: strategies to win competitive grants and maximize impact with AI**”, as Incharge Faculty Development Program, UET, Lahore, July 08, 2025.
- Organized one-day Training Session on **From Idea to Impact: The art and strategy of**

funding proposals, Lahore College for Women University, June 26, 2025.

- Organized one-day workshop on “**Empowering your research: strategies to win competitive grants and maximize impact with AI**”, as Incharge Faculty Development Program, UET, Lahore, June 4, 2025.
- Organized one-day workshop on “**Generative Artificial Intelligence in Research, Teaching and Professional Development**”, as Incharge Faculty Development Program, UET, Lahore, May 08, 2025.
- Organized International Webinar on “**Women Leadership in Higher Education – Empowering Change & Advancing Global Excellence**”, as Incharge Faculty Development Program, UET, Lahore, March 8, 2025.
- Organized one Day Workshop on “**Building the Future: Architecture Under STEM-Nanotechnology’s Impact on Sustainable Architecture**”, as Incharge Faculty Development Program, UET, Lahore, March 24th, 2025.
- Organized 4-Day Training Workshop, **Holistic Quality Teaching and Enhancing Learning Effectiveness via Social Consciousness**, as Incharge Faculty Development Program, UET, Lahore, February 18-21, 2025.
- Invited guest speaker on “**Rising with Integrity: Women’s Leadership and Character Building for a Brighter Future**, at Queen Mary College Lahore, April 23, 2025.
- Exhibition of UET selected projects at **4th Health, Engineering and Mineral Show** under Trading Development Authority Pakistan, Ministry of Pakistan, 17-19 April, 2025
- Invited guest speaker on “**Women’s Potential Leadership for a Brighter Future**”, at Chemical Engineering Department, UET, New Campus, Lahore, October 2, 2024.
- Panelist on International Day of **Women and Girls in Science** organized by Exodous Green, February 11, 2024.
- One Day Seminar on “**Be the Change: YOUTH Leadership, Ethics and Character Building for a better Future**”, organized by Department of Mining Engineering UET, Lahore, February 14, 2024.
- Organized and Moderated **USAID Webinar on Sustainable Breakthroughs in Water Purification and Urban Water Management** supported by USAID Higher Education System Strengthening Activity, December 3, 2024.
- Organized One Day International Conference on **Nanotechnology and Natural Products**, Chemistry Department UET, Lahore, November 18, 2024.
- Participation on **4 Day Training Workshop on Strengthening Research Productivity and Relevance at Universities** supported by USAID Higher Education System Strengthening Activity, Fatima Jinnah Women University, Islamabad, December 16-19, 2024.
- Panelist on **International Day of Epidemic Preparedness on Why Climate?** organized by Exodous Green, December 27, 2024.
- Organized International Conference on **Preserving Our Planet: Strategies for environmental conservation and combatting climate change** supported by Pakistan-US Alumni Network, June 12, 2024, UET, Lahore
- Participation in Pakistan-US Alumni Network (PUAN) **as a Mentor in Environmental Mentorship and Leadership session**, June 13, 2024, ITU, Lahore.
- Participation in Pakistan-US Alumni Network (PUAN) Country Project: **Economic Prosperity Through Digital Literacy and Entrepreneurship**, May 30th 2024, LUMS, Lahore.

- Invited International Guest Speaker at One Day Seminar on **Ceramic based nanocomposite structures for environment and healthcare applications**, Bradford University UK, April 29, 2024.
- Webinar on **International Women's Day 2024** under USAID Higher Education System Strengthening Activity on March 8, 2024.
- Invited guest on **The Impact of Climate Change on Businesses** organized by Lahore Chamber of Commerce, February 23, 2024.
- One Day Seminar on **"Decoding the Riddles of High-Impact Scientific Writing**, organized by Chemistry Department UET, Lahore, February 21, 2024.
- Webinar on **"Water Scarcity Challenges in Pakistan"** under USAID Higher Education System Strengthening Activity, February 27, 2024
- Webinar on **"Advancing Peace through Education: Learning for Lasting Peace"** under USAID Higher Education System Strengthening Activity, January 24, 2024
- Organised 1st National Conference on **"on Evolution of Youth Leadership and Personality Development through Dr. Allama Iqbal's Doctrine"**. "at UET, Lahore on 21-12-2023.
- Webinar on Climate Resilience in Pakistan, **Climate change and Agriculture** under USAID Higher Education System Strengthening Activity, January 23, 2024.
- Invited Speaker at One Day Symposium on UET-ECUST joint Research Venture with Chinese delegation in **Microbial Enhanced Oil Recovery**, VC Conference room, 20th December, 2023.
- 3rd webinar on **Climate Resilience in Pakistan** organized by USAID's Higher Education System Strengthening Activity (HESSA) December 19, 2023.
- Webinar on **"Disability Inclusion in Higher Education"** under USAID Higher Education System Strengthening Activity, December 06, 2023.
- Invited Speaker at One Day Seminar on **"Revival of Our Commitments With Pakistan Through The Doctrine Of Sir Dr. Allama Mohammad Iqbal"** "at Lahore Chamber Of Commerce and Industry on 13-11-2023.
- Participated in One Day National Conference on **Allam Iqbal: Evolution Of Muslim Nationalism And Iqbal's Ideology For Peace And Stability** At Punjab University On 30-11-2023.
- Selected as **Mentor 2023** for Fulbright Pakistan US Alumni Network
- Invites Speaker at One Day Seminar on **"Character and Personality Buiding"** "at Govt. Jinnah Associate College for women on 03-11-2023.
- Organizer and Speaker at one Day Seminar on **"Educational Philosophy and Pedagogical Insights from the Life of Prophet Muhammad Sallallahu Alaihe Waalaih Wassalam"** at the Department of Chemistry, UET, Lahore on 18-11-2023.
- Selected in **Five Days Women Leaders In Higher Education Pakistan Program Organized by Michigan State University, US** in Collaboration With US Department of State and the US Embassy Pakistan, 9-11, 2023.
- Invited speaker at **Two days Training Workshop on "Data Science with R"**, 27-28th September 2023.
- Selected as **Aspiring Women Leader Cohort 2, Michigan State University, United States** for two years Fellowship Program (February 2023-October 2024).

- Organised Periodic Table Week, Department of Chemistry, UET, Lahore, February 20-24th February, 2023.
- Nominated researcher for “**Establishing the Pakistan Climate Resilience Research Coordination Network**” (PAK-Climate RCN) under HESSA Program of USAID and University of Utah, United States
- Invited Speaker at Workshop on “**Key Strategies for Securing Research Grants**”, School of Science, UMT, Lahore, August 17, 2023.
- One Day International Symposium on “**Nanotechnology for Green and Sustainable Development**”, sponsored by Fulbright Pakistan-US Alumni Network organized by Chemistry Department UET, Lahore, August 10, 2023.
- One Day International Symposium on “**From Research to Recognition: Strategies for Publishing and Promoting Your Work on the Global Stage**”, March 9, 2023, Department of Chemistry, UET, Lahore.
- Two days International Conference on prevention of trafficking in persons, organized by **Pakistan US Alumni Network**, February 27-28, 2023, Serena Hotel Islamabad.
- Selected for **Mentor Role in Fulbright**, Pakistan-US Alumni Network for Fulbright Scholars Internship Program 2023.
- Two days training on **Environmental and Social Framework**, The World Bank Group in Royal Swiss Hotel, Lahore, Pakistan from October 24-25, 2022.
- Five days **Pak-UK research capacity building training program** under HEC and British Council. Avari Hotel, Lahore, from 9th -13th May, 2022
- **Youth as Peacebuilders**, Role of Madaris in Promoting Peace and Tolerance, Zoom Webinar, Public Diplomacy Office, June 24, 2022
- **Youth as Peacebuilders**, Role of Youth in Social Cohesion: Core Values & Challenges, Zoom Webinar, Public Affairs Section, US Embassy, April 15, 2022.
- Résumé for Research and Innovation (R4RI), a **Narrative CV Approach**: The what, why and how organisations can engage with it, The Research and Innovation Culture Team, UK Research & Innovation, Monday 21st March, 2022.
- Seven days training on **Women in Leadership**, The British Council in collaboration with the Higher Education Commission, Pakistan in Serena Hotel, Islamabad from November 29, 2021 to December 4, 2021.
- **The Climate Action Workshop**, 2021 on Education for climate action: How universities can steer the climate crisis, The British Council in collaboration with the Higher Education Commission, Pakistan at Marriott Hotel, Islamabad on Wednesday, 6th October 2021

ON GOING ENVIRONMENTAL PROJECTS

- Indigenous technology development for pilot-scale production of water purification and desalination membranes
- Assessment of Phytofiltration an Eco Friendly Approach for Effective Removal of Heavy Metals from Tanneries Effluent Contaminated Drinking Water
- Green technology development for the large scale production of nanofertilizers and nanopesticides for sustainable agriculture

- "Sustainable and Eco-Friendly Bio-Adsorbent for the Removal of Drinking Water Pollutants Adjacent to Tannery Industries"
- Fabrication and Analysis of Nanoscale Iron Oxide Particles for Sustainable Water Purification
- Fabrication and evaluation of hydroxyapatite based biodegradable nanocomposite structures for waste water treatment
- Ag, Zn substituted nanoparticles using plant extract and their behavior against photocatalytic degradation of methylene blue
- Nanofabrication of ceramic based biofilters for waste water treatment
- Indigenous synthesis of Cu and Zn/hydroxyapatite based nanomaterials using Chenopodium album for the management of sclerotium rot of chili
- Bioactive metal doped hydroxyapatite urea hybrid nanofertilizer for controlled release of nutrients

ON GOING HEALTHCARE PROJECTS

- Novel scalable technology for the production of nanoscale biomaterials for healthcare
- Fabrication and characterization of electrospun poly(e-caprolactone)/gelatin biocomposite nanofibrous scaffold for bone tissue engineering
- Biodegradable calcium phosphate based nanocomposite scaffolds for cartilage and bone regeneration
- Biodegradable PCL-PLGA-Brushite Scaffolds for Bone Tissue Engineering
- Novel continuous flow synthesis and antibacterial studies of strontium doped hydroxyapatite nanoscale biomaterials for healthcare applications
- Surface modification of magnetite nanoparticles for Magnetic Hyperthermia applications
- Antimicrobial Studies of Nanoscale Titania Particles made via Green and Chemical Methods
- Fabrication and characterization of electrospun poly(e-caprolactone) /gelatin biocomposite nanofibrous scaffold for bone tissue engineering
- Nanofabrication of the metal oxide- based antimicrobial membrane by employing electrospinning method
- Synthesis and characterization of ultrafine nanofibres of polymethylmethacrylate reinforced nanohydroxy apatite for biomedical applications
- Cultivating Sustainability: A Comparative Study of Hydroxyapatite Nanoparticle Synthesis from Various Green Sources for Biomedical Applications

GRANTS/FUNDED RESEARCH PROJECTS

Sr. No.	Project	Funds Allocated Millions Rs.	Funding Agency
1	Indigenous Technology Development for Pilot-scale Production of Water Purification and Desalination Membranes	14.95 M	TTSF (HEC)
2	Synthesis and evaluation of calcium phosphate nanoceramics for biomedical applications	1.6 M	Industry

3	Advanced fabrication of ultrafine PMMA nanofibers for bone cement applications	1.2 M	Industry
4	Design, fabrication and Implementation of an advanced water purification system using meltblown machine	0.6 M	Industry
5	Hydrogen production and other fuels	0.96 M	OGRA
6	Preserving Our Planet: Strategies for environmental conservation and combatting climate change	0.1 M	PUAN
7	Synthesis of Phosphoric Acid by Using Local Rock Phosphates for Industrial Applications	0.73 M	Industry
8	Development of 3D Mesoporous Metal Oxide Framework: A High Performance Electrocatalyst for Sustainable Energy Production, 16472.	5.9 M	NRPU (HEC)
9	Green Synthesis, Characterization and Comparative Study of Bone Cement for Biomedical Applications	0.56 M	Industry
10	Nanotechnology for Green and Sustainable Development	0.025M	PUAN
11	Fabrication and Performance Evaluation of Biodegradable Biphasic Nanocomposite Scaffolds	5.18 M	NRPU (HEC)
12	HF And Other Fluorinated Compounds Production Using Local Calcium Fluoride	0.66 M	Industry
13	Synthesis of Dicalcium Phosphate from Phosphate Rock for Poultry Applications	0.48 M	Industry
14	Fabrication of pulsating dc magnetron sputter system for the deposition of thin films	1.4 M	UET
15	Novel Synthesis and Evaluation High Purity Calcium Phosphate Nanoceramics For Biomedical Applications	1.5 M	UET

TECHNICAL SKILLS

- X-ray Diffraction Spectroscopy (XRD)
- X-ray Photoelectron Spectroscopy (XPS)
- Scanning Electron Microscopy (SEM)
- Transmission Electron Spectroscopy (TEM)
- UV/Visible Spectroscopy
- FTIR Spectroscopy
- Raman Spectroscopy
- NMR Spectroscopy
- Differential Thermal Analysis (DTA)
- Thermal Gravimetric Analysis (TGA)
- BET Surface Area Analysis
- Electrophoretic Deposition Technique
- Dynamic Light Scattering
- Zeta Potential Measurements
- SQUID Measurements

COMPUTER SKILLS

- ECDL (European Computer Driving License), UK
- Computer Star certificate, Forman Christian College University, Lahore.
- C++ Programming (Basic)
- Coral Draw Graphics Suite 12
- Origin 7.0

Administrative Responsibilities

- Member Board of Studies, Institute of Environmental Engineering and Research UET, Lahore
- Member Environment Safety and Compliance Committee, UET, Lahore
- Member Intellectual Property and Commercialization Committee, UET, Lahore
- Member Sports Committee, UET, Lahore
- Member Academic Council, UET, Lahore
- Member Senate Committee, UET, Lahore
- Member Board of Faculty, UET, Lahore
- Member Funds Investment Committee UET, Lahore
- Member Board of Studies, Chemistry Department, UET, Lahore
- Member Departmental Tenure Review Committee, Chemistry Department, UET, Lahore
- Member Departmental Tenure Review Committee, Chemistry Department, Women University, Sialkot.
- Convener Alumni Reunion Committee, Chemistry Department, UET, Lahore
- Convener Thesis Assessment Committee, Chemistry Department, UET, Lahore
- Convener Industrial Advisory Board, Chemistry Department, UET, Lahore
- Convener, Board of Studies for BS Environmental Science Program, Basic Sciences Department, University of Engineering and Technology.
- Convener Industrial Advisory Board, Environmental Science Program Basic

Sciences Department, University of Engineering and Technology.

- Member Board of Studies, Sustainable Development Study Centre, Government College University, Lahore.
- Member Board of Studies, Environmental Management and Policy, Department of Environmental Sciences, Faculty of Life Sciences and Informatics, BUIITEMS, Quetta.
- Council Member, Women in Science Organization, Pakistan
- Ambassador for Fikr e Iqbal Forum

CO CURRICULAR ACTIVITIES

- Head Women sports committee at University of Engineering and Technology
- Debator
- Organizer of events for Speer's Chemical Society
- Won many prizes and Certificates on Quiz Competitions arranged by Queen Mary College Lahore.
- Best Poetess and Compere of Queen Mary and UET.
- Member of Women Sports Committee at Forman Christian College.
- Member of Convocation Committee at Forman Christian College.

COMMUNITY SERVICE

Co-founder of a philanthropic initiative focused on supporting deserving students, marginalized communities, and individuals with disabilities. Actively involved in providing financial, educational, and moral support to help them pursue education, establish small businesses, and lead empowered lives. Dedicated to fostering inclusivity, equality, and positive social change through impactful community service.

REFEREE

Will be provided on demand.