Dr. Ather F. Khan

Tenured Professor of Biomaterials | Research Lead in Bone Repair & Regeneration

COMSATS University Islamabad (CUI), Lahore Campus, Pakistan
+92-332-4920289 | atherfarooq@cullahore.edu.pk
LinkedIn | ORCID: 0000-0002-5178-2482

Professional Summary

Distinguished biomaterials scientist and tenured professor with 15+ years of expertise in tissue engineering, bone regeneration, and polymeric biomaterials. Proven leader in securing and managing high-value research grants (totaling ~1.04 billion PKR), publishing in top-tier journals (H-index: 27, Citations: 2380), and mentoring interdisciplinary teams. Passionate about translating research into clinical applications, with patents and collaborations spanning academia and industry.

Education

November 2017	Research Fellowship in Biomaterials Kroto Research Institute, University of Sheffield, UK Advisor: Prof John Haycock
June 2008	PhD in Chemistry Vienna University of Technology, Austria Advisor: Prof. Peter Stanetty
July 2001	MSc in Chemistry University of The Punjab, Pakistan

Experience

April 2022 – Present	**Professor (Tenured)**,

	Associate Head, Bone repair and Regeneration Group, IRCBM, CUI, Lahore Campus, Pakistan
Dec 2014- April 2022:	**Associate Professor** IRCBM, CUI, Lahore Campus, Pakistan
July 2011-Dec 2014	**Assistant Professor,** IRCBM, CUI, Lahore Campus, Pakistan
Oct 2008-July 2011	**Assistant Professor** Department of Chemistry CUI, Abbottabad Campus, Pakistan

MEMBERSHIP OF LEARNED & PROFESSIONAL SOCIETIES

- American Chemical Society (ACS, # 33668838)
- Tissue Engineering and Regenerative Medicine International Society (TERMIS, # 7679)
- Pakistan Chemical Society

Academic Awards and Honors

- TÜBİTAK Sabbatical Fellowship (Turkey)
- PIFI award, Chinese Academy of Sciences 2023
- CUI Research Productivity Award 2009-2020
- PAK-UK Fellowship 2014
- HEC Best Research Paper Award 2011

Completed Developmental Research Grants

1. **Title: Establishment of Centre for Advanced technologies in Biomedical Materials**
   Role: Project Coordinator/Member Technical Committee
   Amount: 849.383 Million PKR (5 Million USD)

   Funding Agency: Ministry of Science and Technology, Pakistan

Completed Research Projects

2. **Title:** Freeze dried polymer scaffolds for bone tissue engineering (PI)
   Amount: 2.48 Million PKR

   Funding Agency: HEC

3. **Title: Role of chitosan and heparin in YEGF and YEGFR mediated angiogenesis in human umbilical vein endothelial cells (HUVECs) (Co-PI)**

   Amount: 0.491 Million PKR

   Funding Agency: HEC

4. **Title: Sonication Induced Self-Assembly of Polymeric Porphyrin-Fullerenes Adduct and their Drug Delivery Assessment. (Co-PI)**

   Amount: 0.358 Million PKR

   Funding Agency: HEC

5. **Title: Development of nerve guidance conduits based on photocurable chitosan (PI**)
   Amount: 0.9 Million PKR

   Funding Agency: HEC (PPCR)

6. **Title: Sol-Gel Synthesis of Mesoporous Bioactive Glass (MBGs) by Evaporation Induced Self-Assembly Method for Potential Osteological Applications (Co-PI)**

   Amount: 0.2 Million PKR

   Funding Agency: CIIT

7. **Title: Computational Design of Dihydropyrene-Cyclophanediene Photoswitches (as Co-PI)**
   Amount: 2.37 Million PKR

   Funding Agency: HEC

8. **Title: Development of Azole based potential protein Kinase inhibitors (PI)**
   Amount: 3.67 Million PKR

   Funding Agency: HEC

9. **Title: Synthesis of biologically active molecules based on Thiazole Schiff base derivatives (as PI)**
   Amount: 0.2 Million PKR

   Funding Agency: CIIT

10. **Title: The effective us e of amides and carbamates in sulfur ylide mediated annulation reactions and a novel method development for the efficient synthesis of URAT inhibitors dihydro 1,4-benzoxazines using vinyl sulfonium salts (as Co-PI)**
    Amount: 0.5 Million PKR

    Funding Agency: HEC

11. **Title: Development and evaluation of chromium-loaded chitosan nanoparticles composite as a feed additive in broilers reared under normal and heat stressed conditions (Co-PI)**
    Amount: 3 Million PKR

    Funding Agency: Pakistan agricultural research council

12. **Title: Water Quality Improvement& Promotion of Hygiene (WAQIPH Phase II) (as Member)**
    Amount: 9.5 Million PKR

    Funding Agency: United Nations (UN)

13. **Title: Water Quality Improvement& Promotion of Hygiene (WAQIPH Phase III) (As member)**
    Amount: 13 Million PKR

    Funding Agency: United Nations (UN)

PUBLICATIONS

IMPACT FACTOR ~ 334, CITATION ~ 2495, H-INDEX = 27 Q1 = 25

DATED: AUG, 2025 (GOOGLE SCHOLAR)

1. Maryam Shafiq, Sadia Habib, Hafsah Akhtar, Saamia Naz, Mustafa Özgür Öteyaka, Asma Tufail Shah, Fahad Hussain Alhamoudi, Aqif Anwar Chaudhry, Hamad Khalid*, **Ather Farooq Khan*,** Biomimetic trilayered silk-based electrospun scaffolds for regeneration of dura mater, Accepted, RSC Advances, 2025 **(IF = 3.7)**

2. Ayesha Shahid, Faisal Moeen, Sadia Habib, Aysha Arshad, Rabia Zeeshan, Aqif Anwar Chaudhry, Hamad Khalid, Fahad Hussain Alhamoudi, Hafsah Akhtar, **Ather Farooq Khan***, Mg doped ZnO containing silk nanocomposite scaffolds for biofilm prevention during alveolar bone regeneration, Materials Chemistry and Physics 327 (2024) 129911, **(IF = 4.3)**
3. Sana Tariq, Saqlain A Shah, Fareeha Hameed, Zeeshan Mutahir, Hamad Khalid, Asma Tufail, Hafsah Akhtar, Aqif Anwar Chaudhry, **Ather Farooq Khan***, Tissue engineered periosteum: Fabrication of a gelatin based trilayer composite scaffold with biomimetic properties for enhanced bone healing. International Journal of Biological Macromolecules, Volume 263, Part 2, April 2024, 130371, **(IF = 8.02 Q1)**
4. Muhammad Samie, **Ather Farooq Khan**, Saeed Ur Rahman Haffsah Iqbal, Muhammad Arfat Yameen, Aqif Anwar Chaudhry, Hanaa A. Galeb, Nathan R. Halcovitch, John G.Hardy, Drug/bioactive eluting chitosan composite foams for osteochondral tissue engineering, International Journal of Biological Macromolecules, DOI: https://doi.org/10.1016/j.ijbiomac.2022.12.293 **(IF = 8.02 Q1)**
5. Afifa Noor, Hamad Khalid, Muhammad Aslam, Akhtar Hayat, **Ather Farooq Khan**, Muhammad Nasir, Aqif Anwar Chaudhry, Mian Hasnain Nawaz Graphene Oxide Reinforced Silk Fibroin Nanocomposite as an Electroactive Interface for Estimation of Dopamine, RSC Advances, 12 (45), 29319-29328 **(IF = 3.7)**
6. Lubna Shahzadi, Amna Ramzan, Awais Anjum, Faiza Jabbar, **Ather Farooq Khan**, Faisal Manzoor, Sohail Anjum Shahzad, Aqif Anwar Chaudhry, Ihtesham ur Rehman, Muhammad Yar, An efficient new method or electrospinning chitosan and heparin for the preparation of pro-angiogenic nanofibrous membranes for wound healing applications" (Research Article, No. app.20221389R2) Journal of Applied Polymer Science, e53212, 2022. **(IF = 3.057)**
7. Muhammad Samie, **Ather Farooq Khan**, John George Hardy, Muhammad Arfat Yameen Electrospun Antibacterial Composites for Cartilage Tissue Engineering, Macromolecular Bioscience 2200219 **(IF = 5.859, Q1)**
8. Sehrish Sarfaraz, Afsar Khan, Fareeha Hameed, Aysha Arshad, Zeeshan Mutahir, Rabia Zeeshan, Kashif Ijaz, Aqif Anwar Chaudhry, Hamad Khalid, Ihteshamur Rehman, **Ather Farooq Khan***, Osteogenic and antibacterial scaffolds of silk fibroin/Ce-doped ZnO for bone tissue engineering International Journal of Polymeric Materials and Polymeric Biomaterials, Pages 1-12, 2022 **(IF = 2.604)**

9. Hafiz U Ali, Dure N Iqbal, Munawar Iqbal, Safa Ezzine, Aysha Arshad, Rabia Zeeshan, Aqif A Chaudhry, Samar Z Alshawwa, Arif Nazir, **Ather Farooq Khan*** "HPMC crosslinked chitosan/hydroxyapatite scaffolds containing Lemongrass oil for potential bone tissue engineering applications" Arabian Journal of Chemistry 15 (7), 103850, 2022 **(IF = 5.165, Q1)**
10. Junaid Yaqoob, Tariq Mahmood, Khurshid Ayub, Sobia Tabassum, **Ather Farooq Khan**, Shagufta Perveen, Jucai Yang, Mazhar Amjad Gilani Optimized nonlinear optical (NLO) response of silicon carbide nanosheet by alkali metals doping: a DFT insight, he European Physical Journal Plus 137 (2), 233, 2022, **(IF = 3.758)**
11. Henry Chinedu Obasi, Kashif Ijaz, Hafsah Akhtar, Asif Ali, Hamad Khalid, **Ather Farooq Khan**, Aqif A Chaudhry, Fabrication of antimicrobial electrospun mats using polyvinyl alcohol–zinc oxide blends, Publication date 2022/3/20, Polymer Bulletin Pages 1-15 **(IF = 2.843)**
12. Sadia Fazil, Humaira Shah, Mamoona Noreen, Muhammad Yar, **Ather Farooq Khan**, Sher Zaman Safi, Suliman Yousef Aloma, Afrah Fahad Alkhuriji, Hanan Mualla Alharbi, Muhammad Amjad Bashir, Sagheer Atta, Sarah Ali Althubyani Evaluation of Molecular mechanisms of heparin-induced angiogenesis, in human umbilical vein endothelial cells, Journal of King Saud University-Science, 101534. 2021 **(IF = 3.829)**
13. Hamad Khalid, Haffsah Iqbal, Rabia Zeeshan, Muhammad Nasir, Faiza Sharif, Muhammad Akram, Masooma Irfan, Farooq Azam Khan, Aqif Anwar Chaudhry, **Ather Farooq Khan**, Silk fibroin/collagen 3D scaffolds loaded with TiO 2 nanoparticles for skin tissue regeneration, Polymer Bulletin, 1-20, 2021 **IF = 2.843)**
14. Qurat ul Ain Malik, Sundus Iftikhar, Saba Zahid, Sher Zaman Safi, **Ather Farooq Khan**, Muhammad Nawshad, Sarah Ghafoor, Abdul Samad Khan, Asma Tufail "Smart Injectable Self-Setting Bioceramics for Dental Applications", 113, 110956, Material Science and Engineering C **(IF = 8.457, Q1 category),** 2020
15. Muhammad Samie, Muhammad Arfat Yameen, Hafiza Fakhera Ikram, Haffsah Iqbal, Aqif Anwar Chaudhry, Ihtesham ur Rehman, **Ather Farooq Khan*,** Fabrication of dual drug loaded bilayered chitosan based composite scaffolds as osteochondral substitutes and evaluation of in vitro cell response using the MC3T3 pre-osteoblast cell line, Cellulose, 27 (4), 2253-2266 DOI: 10.1007/s10570-019-02915-x, 3 **(IF = 6.123 Q1 category),** 2020
16. Muhammad Samie, Nawshad Muhammad, Muhammad Arfat Yameen, Aqif Anwar Chaudhry, Hamad Khalid, **Ather Farooq Khan*,** Aqueous Solution of a Basic Ionic Liquid: A Perspective Solvent for Extraction and Regeneration of Silk Powder from Bombyx mori

Silk Cocoons, Journal of Polymers and the Environment, Accepted, DOI: 10.1007/s10924-019-01634-5 **(IF = 4.705, Q1 category), 2020**

17. Muhammad Hamza Malik, Lubna Shahzadi, Razia Batool, Sher Zaman Safi, Abdul Samad Khan, **Ather Farooq Khan**, Aqif Anwar Chaudhry, Ihtesham Ur Rehman, Muhammad Yar, Thyroxine-loaded chitosan/carboxymethyl cellulose/hydroxyapatite hydrogels enhance angiogenesis in ex-ovo experiments, International Journal of Biological Macromolecules, Accepted https://doi.org/10.1016/j.ijbiomac.2019.10.043 **(IF = 8.025, Q1 category**)
18. S.K. Tahir, M.S. Yousaf, M.A. Rashid, A.F. Khan, S. Ahmad, H. Zaneb, I. Khan & H. Rehman "Supplemental chromium-loaded chitosan nanoparticles affect growth, serum metabolites and intestinal histology in broilers" South African Journal of Animal Science 2019, 49 (No. 6) **(IF = 0.977))**
19. Sajid Khan Tahir, Muhammad Shahbaz Yousaf, Sohrab Ahmad, Muhammad Khurram Shahzad, **Ather Farooq Khan**, Mohsin Raza, Khalid Abdul Majeed, Abia Khalid, Hafsa Zaneb, Imtiaz Rabbani, Habib Rehman, Effects of Chromium-Loaded Chitosan Nanoparticles on the Intestinal Electrophysiological Indices and Glucose Transporters in Broilers, Animals, 9, 10, 819 **(IF = 3.231, Q1 category)**
20. Muhammad Yar, Aneeqa Masood, Razia Batool, Lubna Shahzadi, **Ather Farooq Khan**, Zunaira Yousaf, M Yasir Rafique and Aamir Razaq, Nano MnO2 immobilized covalently cross-linked chitosan and PVA based highly flexible membranes, Materials Research Express, Volume 6, Number 8, 2019 **(IF = 2.025**)
21. Saba Zahid, Hamad Khalid*, Hafiza Fakhera Ikram, Haffsah Iqbal, Muhammad Samie, Lubna Shahzadi, Asma Tufail Shah, Muhammad Yar, Aqif Anwar Chaudhry, **Ather Farooq Khan*,** Ihtesham ur Rehman, Bi-layered α-tocopherol acetate loaded membranes for potential wound healing and skin regeneration, Material Science and engineering C, 2019 Aug;101:438-447, 2019 **(IF = 8.457, Q1 category)**
22. Xianghong Wang, Lingjie Song, Jie Zhao, Rongtao Zhou, Shifang Luan, Yubin Huang, Jinghua Yin and **Ather Farooq Khan**, Bacterial Adaptability of Enzyme and pH Dual-Responsive Surface for Infection Resistance**,** J. Mater. Chem. B, 2018, 6 (46), 7710-7718.(**IF = 7.571, Q1 category)**
23. Lubna Shahzadi, Aqif Anwar Chaudhry, Abdur Raheem Aleem, Muhammad Hamza Malik, Kashif Ijaz, Hafsah Akhtar, Farah Alvi, **Ather Farooq Khan**, Ihtesham Ur Rehman, Muhammad Yar , Development of K-doped ZnO nanoparticles encapsulated crosslinked chitosan based new membranes to

stimulate angiogenesis in tissue engineered skin grafts, International Journal of Biological Macromolecules, 2018.(**IF = 8.025, Q1 category)**

24. Rabia Zeeshan; Zeeshan Mutahir; Haffsah Iqbal; Moazzam Ali; Farasat Iqbal; Kashif Ijaz; Faiza Sharif; Asma Tufail Shah; Aqif Anwar Chaudhry; Muhammad Yar; Shifang Luan; **Ather Farooq Khan***, Ihtesham ur-Rehman, Hydroxypropylmethyl cellulose (HPMC) crosslinked Chitosan (CH) based scaffolds containing Bioactive glass (BG) and Zinc oxide (ZnO) for Alveolar Bone Repair, Carbohydrate polymer, **2018, 193:9-18.**. **(IF=10.723, Q1 category)**

25. Haffsah Iqbal, Moazzam Ali, Rabia Zeeshan, Zeeshan Mutahir, Farasat Iqbal, Muhammad Azhar Hayat Nawaz, Lubna Shahzadi, Aqif Anwar Chaudhry, Muhammad Yar, Shifang Luan, **Ather Farooq Khan***, Ihtesham-ur Rehman, Chitosan/hydroxyapatite (HA)/hydroxypropylmethyl cellulose (HPMC) spongy scaffolds-synthesis and evaluation as potential alveolar bone substitutes, Colloids and Surfaces B: Biointerfaces, Volume 160, 1 **December 2017**, Pages 553-563. **(IF=5.999, Q1 category)**

26. Ayesha Babar, Muhammad Yar, Hamadeh Tarazi, Vera Duarte, Mohammed B Alshammari, Mazhar Amjad Gilani, Haffsah Iqbal, Munawwar Ali Munawwar, Maria J Alves, **Ather Farooq Khan***, Molecular docking and glucosidase inhibition studies of novel N-arylthiazole-2-amines and Ethyl 2-[aryl (thiazol-2-yl) amino] acetates, Medicinal Chemistry Research December 2017, Volume 26, Issue 12, pp 3247–3261. **(IF=2.351)**

27. Rujian Jiang, Zhirong Xin, Shiai Xu, Hengchong Shi, Huawei Yang, Lingjie Song, Shunjie Yan, Shifang Luan, Jinghua Yin, **Ather Farooq Khan**, Yonggang Li, Enzyme-mimicking polymer brush-functionalized surface for combating biomaterial-associated infections, Applied Surface Science Volume 423, 30 **November 2017**, Pages 869-880. **(IF =7.392, Q1 category)**

28. Xianghong Wang, Shunjie Yan, Lingjie Song, Hengchong Shi, Huawei Yang, Shifang Luan, Yubin Huang, Jinghua Yin, **Ather Farooq Khan**, Jie Zhao, Temperature-Responsive Hierarchical Polymer Brushes Switching from Bactericidal to Cell Repellency, ACS Appl. Mater. Interfaces, 2017, 9 (46), pp 40930–40939. **(IF =10.383, Q1 category)**

29. Abdur Raheem Aleem, Lubna Shahzadi, Farah Alvi, **Ather Farooq Khan**, Aqif Anwar Chaudhry, Ihtesham ur Rehman, Muhammad Yar, Thyroxin releasing chitosan/collagen based smart hydrogels to stimulate neovascularization, Materials & Design Volume 133, 5 November 2017, Pages 416-425. **(IF =9.417, Q1 category)**

30. Chunmei Liu, Hengchong Shi, Huawei Yang, Shunjie Yan, Shifang Luan, Yuchao Li, Mouyong Teng, **Ather Farooq Khan**, Jinghua Yin, Fabrication of antibacterial electrospun

nanofibers with vancomycin-carbon nanotube via ultrasonication assistance, Materials & Design Volume 120, 15 April 2017, Pages 128-134. **(IF =9.417, Q1 category)**

31. Lubna Shahzadi, Rabia Zeeshan, Muhammad Yar, Saad Bin Qasim, Aqif Anwar Chaudhry, **Ather Farooq Khan***, Nawshad Muhammad, Biocompatibility Through Cell Attachment and Cell Proliferation Studies of Nylon 6/Chitosan/Ha Electrospun, Mats, J Polym Environ 26, pages2030–2038(2018) https://doi.org/10.1007/s10924-017-1100-8. **(IF =4.705, Q1 category)**
32. Saba Zahid, Asma Tufail Shah, Arshad Jamal, Aqif Anwar Chaudhry, Abdul Samad Khan, **Ather Farooq Khan*,** Nawshad Muhammad, Ihtesham ur Rehman, Biological Behavior of Bioactive Glasses and their Composites, RSC Advances, 6, 70197-70214, **2016. (IF =4.036)**
33. Asma Tufail Shah, Madeeha Batool, Aqif Anwar Chaudhry, Farasat Iqbal, Ayesha Javaid, Saba Zahid, Kanwal Ilyas, Saad bin Qasim, **Ather Farooq Khan**, Abdul Samad Khan, Ihtesham ur Rehman, Effect of calcium hydroxide on mechanical strength and biological properties of bioactive glass**,** Journal of the mechanical behaviour of biomedical materials, 61, 617–626, **2016. (IF =4.042)**
34. Muhammad Yar*, Giulia Gigliobianco, Lubna Shahzadi, Lindsey Dew, Saadat Anwar Siddiqi, **Ather Farooq Khan**, Aqif Anwar Chaudhry, Ihtesham ur Rehman, Sheila MacNeil **"**Production of chitosan PVA PCL hydrogels to bind heparin and induce angiogenesis**"**, International Journal of Polymeric Materials and Polymeric Biomaterials, 65, 466-476, **2016 (IF = 2.604)**
35. Sara Riaz, Wang Feng, **Ather Farooq Khan**, Mian, Hasnain Nawaz, Sonication-induced self-assembly of polymeric porphyrin–fullerene: Formation of nanorings Journal of Applied Polymer Science, 133, 43537-8, **2016**. **(IF =3.057)**
36. Ariba Farooq, Lubna Shahazadi, Marek Bajda, Nisar Ullah, Abdul Rauf, Sohail Anjum Shahzad, **Ather Farooq Khan**, Muhammad Ashraf, Muhammad Yar, Organocatalyzed Novel Synthetic Methodology for Highly Functionalized Piperidines as Potent α-Glucosidase Inhibitors, Archiv Der Pharmazie, Volume 349, Issue 9 **September 2016**, Pages 724–732. **(IF = 4.613)**
37. Asma Tufail Shah • Quratul Ain • Aqif Anwar Chaudhry •, **Ather Farooq Khan** • Bushra Iqbal • Sana Ahmad •, Saadat Anwar Siddiqi • Ihtesham ur Rehman, A study of the effect of precursors on physical and biological properties of mesoporous bioactive glass, J Mater Sci (2015) 50:1794–1804. **(IF = 4.682)**

38. **Ather Farooq Khan**, Adeel Afzal, Aqif Anwar Chaudhary, Muhammad Saleem, Lubna Shahzadi, Arshad Jamal, Muhammad Yar, Amir Habib, and Ihtesham ur Rehman, Hydroxypropyl)Methylcellulose Mediated Synthesis of Highly Porous Composite Scaffolds for Trabecular Bone Repair Applications , Science of Advanced Materials Vol. 7, pp.1177-1186 **June 2015. (IF = 1.067)**
39. Jamshed Iqbal, Mariya-al-Rashida, Ayesha Babar, Abdul Hameed, Muhammad Siraj Khan, **Ather Farooq Khan*** Cholinesterases Inhibitory Activities of N-Phenylthiazol-2-Amine Derivatives and theirMolecular Docking Studies", Medicinal Chemistry, 11, 489-496, **2015. (IF = 2.329)**
40. Razaq A, Asif MH, Kalsoom R, **Khan AF**, Awan MS, Ishrat S, et al. Conductive and electroactive composite paper reinforced by coating of polyaniline on lignocelluloses fibers. Journal of Applied Polymer Science.; 132 **2015. (IF=3.057)**
41. Khan N, Sheikh NS, **Khan AF**, Ludwig R, Mahmood T, Rehman W, et al. Towards thermally stable cyclophanediene-dihydropyrene photoswitches. Journal of Molecular Modeling; 21, **2015. (IF =2.172)**
42. **y**Muhammad NA, Tariq M, **Khan AF**, Muhammad ZUR, Abdullah MA, Islam UK, et al. Synthesis, Crstal Structure and Spectroscopic Properties of 1,2-Benzothiazine Derivatives: An Experimental and DFT Study. Chin J Struct Chem.;34: 15-25 **2015. (IF =0.847)**
43. Muhammad Yar, Marek Bajda; Lubna Shahzadi; Sohail A Shahzad; Maqsood Ahmed; Muhammad Ashraf ; Umber Alam; Islam U Khan; **Ather F Khan**, **"**Novel synthesis of dihydropyrimidines for □-glucosidase inhibition to treat type 2 diabetes: in vitro biological evaluation and in silico docking**",** Bioorganic Chemistry, 54 96-104, **(2014). (IF = 5.307, Q1 category)**
44. Ayesha Babar, Sarah Saleem, Munawwar Ali munawwar, Khurshid Ayub, Amir Waseem, **Ather Farooq Khan**, "Synthesis, Characterization and Density Functional Theory Study Of Some New 2-Anilinothiazoles" Journal of Molecular Structure, 1072 221-227 **(2014)**. **(IF = 3.841)**
45. **Ather Farooq Khan**, Adeel Afzal, Muhammad Saleem, Afsar Khan, Asghar Ali "Bioactive behavior of silicon substituted calcium phosphate based bioceramics for bone regeneration" Materials Science & Engineering C, Volume 35,1, Pages 245-252 **February 2014**. **(IF = 8.457, Q1 category)**

46. Tariq Mahmood, Mazhar Amjad Gilani, Sobia Tabassum, **Ather Farooq Khan** and Farhan Ahmed Khan **"**DFT Studies of biphenyl derivatives, potential application as chiral dopants for liquid crystals", Journal of the Chemical Society of Pakistan. **(IF = 0.698)**
47. Afsar Khan, Umar Farooq, Fateh Ullah, Jamshed Iqbal, **Ather Farooq Khan**, Sumera Zaib, Abdur Rahman Khan, And Ali Azarpira, "Determination of biological activities and total phenolic contents of flowers of Jasminum humile and roots of Dorema aucheri" Journal of the Chemical Society of Pakistan, v. 36(2); p. 291-295, **2014. (IF = 0. 698)**
48. Maria Siddique, Robina Farooq, Rumana Khan, **Ather Farooq Khan**, "Improved photocatalytic activity of TiO2 coupling ultrasound for Reactive Blue 19 degradation" Journal of the Chemical Society of Pakistan, 36, 5**, 2014. (IF = 0. 698)**
49. **Ather Farooq Khan**, Muhammad Awais, Sobia Tabassum et **al** "Raman spectroscopy of bone and its synthetic apatites" Applied Spectroscopy Reviews, Volume 48, Issue 4, **2013. (IF = 5.01, Q1 category)**
50. Ahmad Nauman, Amir Waseem, **Ather Farooq Khan**, Qaisar Mahmood et al "Arsenic bioremediation by low cost materials derived from Blue Pine (Pinus wallichiana) and Walnut (Juglans regia)" Ecological Engineering, 51 88– 94, **(2013). (IF = 4.379)**
51. Ghulam Abbas, Arfan Ahmad, Mariam Mir and **Ather Farooq Khan**, "Electronic structure and absorption spectrm of 6-picoline Schiff base: A DFT and XRD based approach", Journal of molecular Structure, 1050 10-14, **(2013). (IF = 3.841)**
52. Ayesha Babar, M. A. Munawwar, N. Tahir, **Ather Farooq Khan**, T. Ilyas "N-(2,4,6-Trimethylphenyl)-1,3-thiazol-2-amine" Acta Crystallographica Section E Structure Reports Online, E68, 2441, **2012.**
53. Umar Farooq, Afsar Khan, **Ather Farooq Khan**, Saleha Suleman Khan, Rizwana Sarqar, Viqaruddin Ahmed and Amir Waseem **"**Two New Ballonigrin-type Diterpenoids from the roots of Ballota Limbata" Natural Product Communication, 7, 1-2, **2012. (IF = 1.496)**
54. Sajid Hussain Shah, Donglei Wu, Qaisar Mahmood, Zulfiqar Ahmad Bhatti, **Ather Farooq**, Jamil Khan, Naim Rashid, Iftikhar A. Raja **"**Low temperature conversion of plastic waste into light hydrocarbons" Journal of Hazardous Materials, 179, 15-2 **2010. (IF = 14.224, Q1 category).**
55. Maria Siddique, Robina Farooq, Abda Khalid, **Ather Farooq**, Qaisar Mahmood, Umar Farooq, Iftikhar Ahmad Raja, Saleem Farooq Shaukat "Thermal-pressure mediated hydrolysis of Reactive Blue19 dye" J. Haz. Mat., 1007-1012 **2009**. **(IF= 14.224, Q1 category)**

56. **Ather Farooq Khan**, Michael Schnurch, Peter Stanetty, Marko D. Mihovilovic. “Halogen Dance and Sequential Cross-Couplings on 2-Anilinothiazoles” Letters in Organic Chemistry, 6, 171, **2009**. **(I. F=0.797)**
57. Michael Schnurch, **Ather Farooq Khan**, Peter Stanetty, Marko D.Mihovilovic, “Polyarylated Thiazoles via Cross Coupling strategies” Eur. J. Org. Chem, 3228–3236 **2009. (IF=3.261)**
58. Michael Schnurch, Markus Spina, **Ather Farooq Khan**, Peter Stanetty, Marko D. Mihovilovic, “Halogen Dance Reactions- A Review” Chem. Soc. Rev., 1046-1057 **2007. (IF=60.615, Q1 category)**
59. Michael Schnurch, Radoslav Flasik, **Ather Farooq Khan**, Markus Spina, PeterStanetty, Marko D. Mihovilovic, **“**Cross-Coupling Reactions on Azoles with Two or More Heteroatoms”, Eur. J. Org. Chem., 3282-3307, **2006. (IF=3.261)**

PATENTS

1. Muhammad Samie, Nawshad Muhammad, Hamad Khalid, **Ather Farooq Khan** Method for extraction of powdered silk fibroin from bombyx mori cocoons using aqueous solution of basic ionic liquid, **Awarded**, **US Patent App. 16844070, 11512109, 2022**

2. Muhammad Samie, Nawshad Muhammad, , Hamad Khalid, **Ather Farooq Khan** Extraction of powdered silk fibroin from Bombyx Mori cocoons using aqueous solution of basic ionic liquid” **Pakistani patent awarded, Patent No. 143493**

Conferences Organized:

- International symposium of tissue Engineering: Building linkages 2018 (Chief Organizer)
- International symposium of born repair & regeneration network (convener IT committee, Member venue committee)
- 7th ISBM 2019 (convener Finance committee)
- 6th ISBM 2017 (convener IT committee, Member venue committee)
- 5th ISBM 2016 (convener IT committee, Member venue committee)

- 4th ISBM 2014 (convener IT committee, Member venue committee)
- 3rd ISBM 2012 (convener IT committee, Member venue committee)
- 1st science conference, CIIT, Abbottabad 2010
- Three-day conference ESDev, CIIT, Abbottabad 2010
- Pak China business forum (2012-2013-2014-2017)
- S&T Exhibition 2014, Expo Lahore

Workshops Attended

1. Global Challenges Research Fund (GCRF, UK) 2020
2. Global challenge research fund (GCRF, UK) 2016
3. Patent writing, 2013

Book Chapter

1. Aysha Arshad, Ather Farooq Khan, Silicon Substituted Hydroxyapatite, Handbook of Ionic Substituted Hydroxyapatite, Elsevier, 2020, ISBN 978-0-08-102834-6
2. Qaisar Mehmood, Ather Farooq Khan, Afsar Khan, The Role of Colloidal Systems in Environmental Protection, Colloids in the Environmental Protection: Current and Future Trends, Elsevier publications, 2016.