

## CURRICULUM VITAE

### 1 Personal Details:

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### 1.1 Education:

**2021-2022** PG. Cert (Dental Education), and PG. Dip (Medical Education):  
Distinction in “Learning & Teaching in Medical Education”, “Clinical Teaching in Dentistry”, and “Medical Education Research” Modules  
 Department of Medical Education, University of Dundee, UK

**2023** FDTFEd (Fellow, Faculty of Dental Trainers)  
 Royal College of Surgeons of Edinburgh, UK

**2021** FHEA (Fellow Higher Education Academy)  
 Higher Education Academy, UK

**2021** MFDS RCPS (Diploma of Membership)  
 Royal College of Physicians and Surgeons of Glasgow, UK

**2007-2011** PhD  
 Interdisciplinary Biomedical Research Centre, Nottingham Trent University, UK.  
**Thesis title:** *Developing silica based nanocomposite materials for dental applications using Bombyx mori silk proteins*

**2006-2007** MSc (Dental Materials):  
 Department of Materials, Queen Mary University of London, UK  
 Distinction in “Research Project”, “Advanced Topics in Biomaterials”, and “Dental Materials II” Modules  
**Thesis title:** *Comparison of fluoride release from glass-ionomers and giomers*

**1996-2000** BDS (Dentistry):  
 de’Montmorency College of Dentistry, University of the Punjab, Lahore, Pakistan.

### 1.2 Professional Fellowships and Memberships:

#### Fellowships

2014 International College of Dentists, USA (FICD)  
 2013 Academy of Dentistry International, USA (FADI)

#### Memberships

2022 Pakistan Association of Medical Editors  
 2009 Association of Science Educators in Dentistry (ASEiD), UK  
 2001 Pakistan Medical and Dental Council, Pakistan

## 2 Employment History:

### 2.1 Appointments (Current):

#### Professor of Dental Biomaterials (April 2021 to present)

Department of Restorative Dentistry, College of Dentistry, Taibah University, Madinah, Saudi Arabia

My **primary teaching responsibilities** at Taibah University College of Dentistry (TUCD) are to direct dental biomaterials and restorative dentistry modules and integrate in the other clinical dentistry modules. I supervised the dental materials, restorative dentistry, and restorative components of the Clinical Comprehensive Dentistry modules. My teaching and main activities at the (TUCD) are listed here:

#### Teaching and scholarship

- Responsible for teaching dental biomaterials, and restorative dentistry modules through conventional face-to-face, blended learning and laboratory/simulation-based sessions.
- Course coordinator for “Dental Materials” modules and responsible for lesson planning, delivery of content, assessments, and documentation.
- Academic supervision of allocated students (4-6 students per annum)
- Seminar presentations to research students and faculty members as a part of continuing professional development.
- Based on students’ and peers’ feedback, I am involved in the educational reforms of the curriculum and embedding new instructional strategies.

#### Research

- Plan and supervise students’ research projects, helping with scientific writing and publishing their work.
- Executed research projects related to dental materials, tissue engineering, and various clinical dentistry disciplines (current publications: 230+).
- Contributed to various evidence-based systematic reviews related to oral biomaterials and clinical dentistry.
- Establish research collaboration and networking with national and international researchers (~400 co-authors around the globe); achieved a strong research track record of interdisciplinary research publications and networking (please see the attached list of publications).

#### Administrative and Managerial

- Analyze course contents and propose educational reforms for curriculum revision and planning.
- Contribute to decision-making and change management as a part of various college administrative committees including the scientific research and ethics committee.
- Deputy editor in chief for the growing journal by the Taibah University ([Taibah University Journal of Medical Science](#)).
- Participation in various events and meetings as required by the department and college.

#### Visiting Professor [honorary appointment] (April 2017 to present)

Department of Dental Biomaterials, Islamic International Dental College, Riphah International University, Islamabad, Pakistan

Plan and delivering of lectures to postgraduate students (mainly online sessions with occasional visiting). I am involved in the assessment of postgraduate students’ progress, through formative activities and providing constructive feedback to complete their research projects. Virtual meetings with students and supervisory teams to discuss progress and research plans.

## 2.2 Appointments (Previous):

### Associate Professor of Dental Biomaterials (April 2017 to April 2021)

Department of Restorative Dentistry, College of Dentistry, Taibah University, Madinah, Saudi Arabia

### Assistant Professor of Dental Biomaterials (September 2012 to April 2017)

Department of Restorative Dentistry, College of Dentistry, Taibah University, Madinah, Saudi Arabia

### Research Associate (September 2011 to August 2012)

Interdisciplinary Biomedical Research Centre, Nottingham Trent University, Nottingham, UK

- Fabrication of various natural silk-based nanocomposite (using electrospinning, sol-gel route) targeting biomedical and dental applications.
- Characterization of fabricated materials using a range of materials and biochemical characterization techniques.
- Mentoring students working in the lab on research projects and guiding them for planning experiments and data analysis.

### Demonstrator (October 2009-September 2011)

Biomedical Sciences, Nottingham Trent University, Nottingham, UK.

- Assisted and conducted practical sessions for BSc and MSc students.
- Coordinated with the technical staff for the smooth running of the practical session.
- Evaluated lab reports and provided feedback on student performance and practical sessions to the module leader.

### Postgraduate Researcher [Doctoral Research] (October 2007 - September 2011)

IBRC, Nottingham Trent University, Nottingham, UK [NIH grant code: ROI DE017207]

- Investigated the chemistry and kinetics of silica formation through the green chemistry route and its effects on silk proteins.
- Evaluated the effects of various silk proteins on the structure, morphology and properties of silica-based bioactive nanocomposite materials.
- Using a factorial design of experiments and detailed characterization to evaluate the suitable organic-inorganic combinations for potential dental applications such as dentin regeneration.
- Data collection, interpretation, and literature search to support/discuss the experimental data
- Record keeping and maintenance of various experimental documentation including materials safety data sheets, and standard operating procedures.

### Examination Assistant (June 2007 – August 2007)

Barts and The London Medical School, Queen Mary University of London, UK

- Assisting in setting up and conducting examinations including OSCE
- Marking of examination sheets and compiling the data

### Postgraduate Trainee (Restorative Dentistry) (January 2003 – December 2005)

de'Montmorency Institute of Dental Sciences, Lahore, Pakistan

- Screening of patients attending the OPD for restorative treatment.
- Specialty clinical training focusing on operative dentistry procedures including restorations, pulp therapy, oral rehabilitation.
- Demonstration to interns and final-year BDS students regarding various restorative clinical procedures

### Internship (Dentistry) (January 2001 – January 2002)

Punjab Dental Hospital, Lahore, Pakistan

### 3 Summary:

I am a research-led academic with extensive management and leadership skills, gained during a range of roles spanning research, teaching and administration (the successful implementation of operating procedures in academic and clinical activities). I have published more than **265 papers**, including journal articles, several book chapters, and three edited books [***h-index* of 51** (Google Scholar) with **10,100+ citations** (9140+ since 2018, 6000+ since 2021)]. I have written many seminal papers and evidence-based reviews on topics related to the dental and biomedical field including molecular biology, biomaterials, dental materials, and oral health, which have been extensively cited. According to the SCOPUS, I have **233 publications** [***h-index* of 38** with total citations of **5900+** (4600+ since 2020)]. Due to the leading position in my current role, I was invited to be a Deputy Editor in Chief of the multidisciplinary [Journal of Taibah University Medical Sciences](#) (Tracked for Impact factor) and an [editorial board member](#) of “Biomacromolecules, Biobased and Biodegradable section” of the [Polymers journal](#) (Impact factor 5.0). In addition, I successfully guest-edited various special issues for various journals including [polymers](#) (Impact factor 5.0), [molecules](#) (Impact factor 4.6) [Applied Sciences](#) (Impact factor 2.7), and [Dentistry Journal](#) (2.6).

I am recipient of the “**Best Researcher Award**” for year 2022, and 2023. Furthermore, I have been included in **Stanford University’s list of the top 2%** of researchers for the last three years ([2020](#), [2021](#), and [2022](#)). According to the recent [AD Scientific Index 2023](#), I am ranked #3 at Taibah University (#1 in Dentistry) and ranked #171 among all the Saudi Arabia researchers ([Top#3 in Dentistry](#), top 2%). I have delivered a number of invited keynotes, plenary lectures, and conference presentations in the fields of dentistry, oral biology, biomaterials, and dental materials. I attempted to integrate the science of biomaterials into the clinical aspects of dentistry by editing three books ([Dental Implants Materials, Coatings, Surface Modifications and Interfaces with Oral Tissues](#), [Advances Dental Biomaterials](#), and [Biomaterials in Endodontics](#)) published by Woodhead Publishing, Elsevier UK. Furthermore, I have contributed to the editorial and peer-review activities. Currently, I have edited more than **865+ articles** and peer-reviewed more than **1140+ papers** for more than 200 reputed indexed journals, which are verified by the [web of science](#).

I have secured over SR 2.5M as a PI/Co-I (since 2013) on topics, such as dental tissues, nanomechanical properties of dental materials, dental implant materials and surface treatments. These institutional and national research fundings helped me to foster new research collaborations and networking with dental and biomedical schools and colleagues across the university, with evidence of interdisciplinary outputs. In my current role (course coordinator), I am responsible for the management of the entire course teaching, identifying new teaching staff, managing delivery of teaching and assessment. Furthermore, I have developed and proposed a postgraduate programme in dental biomaterials integrated with clinical dentistry disciplines (pending curriculum committee approval). I have also been instrumental in developing an integrated and inclusive curriculum in my undergraduate modules. Recently, I completed the PG diploma in Medical Education, which has further

enhanced my understanding of curriculum development, change management, leadership and innovation in the academic context.

In near future, I would like to continue my momentum and professional development to further flourish my research and academic activities. Surely, a teaching post with research and educational commitments in the biomedical sciences (biomaterial, dental materials, restorative dentistry or related) department of a university would facilitate to expand my contribution. I would continue research and academic interests to broaden my expertise regarding the innovative biomaterials' developments as a team player as well as expanding further collaborations and networking.

## 4 Professional Experiences and Skills:

### 4.1 Teaching and scholarship:

Since 2009, I have been significantly involved in teaching of dental and biomedical students in various appointments including demonstrator, Assistant, Associate Professor, and Professor. In my current role as a professor at the TUCD, I am leading biomaterials modules and responsible to overseeing the students' learning needs and suggesting reforms in the curriculum focusing the integration strategies on the delivery and in assessment techniques. My teaching practice range from conventional lecturing to large and small groups, clinical setting supervision, and PBL. My teaching approach is mainly learners-oriented where I like to engage students with evidence-based dentistry that can enhance their problem-solving skills. Recently, I delivered two modules using the blended learning approach where some practical sessions focusing psychomotor skills were delivered face-to-face while some using the virtual platform. I have already accomplished and published a [research](#) article about blended learning for teaching dental anatomy students.

At the TUCS, the faculty are motivated for technology enhanced learning. The university provided an official subscription to two major Electronic Learning Management Systems (LMS) namely Microsoft Teams and BlackBoard platforms. Using the BlackBoard platforms, I uploaded a number of video lectures, presentations and practice materials and particularly motivated students for self-study. In addition, I revise and update the electronic content time by time based on students' engagement in e-learning. I found encouraging feedback from my students for both blended learning and self-study approaches. For assessments, I use various standard setting methods depending on the type of assessments. Furthermore, I was able to replace the conventional practical exams with OSCE for better outcome. I construct self-assessment, peer-assessment and feedback tools for further learning and reforms in the curriculum.

With the growth of my teaching experience, I have always been involved in the postgraduate teaching through case-based discussion, journal clubs, arranging the workshops and continuing education activities. I follow diversity in education as I believe every student is different and vary from their peers in multiple aspects such as capabilities, learning experiences, cultural values, and performances. For further enhancement of my pedagogical skills, I strongly believe on my own continuing professional development. Recently, I completed the FHEA (Higher Education Academy, UK) and PG diploma in medical education (University of Dundee, UK). Currently, I am perusing the master's degree in medical education from the University of Dundee, UK.

### 4.2 Administrative, Managerial and Leadership:

- **Lead and course coordinator** for dental biomaterials modules (RDS 210, RDS 211) at Taibah University, Saudi Arabia [2013 – to date].

- **Member of Recruitment Committee:** Academic evaluation of submitted applications after initial screening. As a part of interview panel, scheduling, and facilitation of interviews [2013-2015].
- **Chairman, Students Research Excellence Committee,** for the academic year 2023.
- **Member of Scientific Research-day committee, [2023-to date].**
- **Administrator of institutional research ethic committee:** Contributed to developing a system for reviewing and granting decisions for the application submitted for ethical approval. The committee received applications from the college of dentistry and other colleges with the aim of decision within four weeks [2014 – 2017 and **2023-to date**].
- **Member of college examination board:** the team was responsible for the management of mid-term and end of term final exams for all modules including marking and compiling of results [2015 – 2017].
- **Member of college scientific research council:** monitoring of research activities, publications, journal club and arranging seminars focusing continuous professional development [2017 – 2019].
- **Research supervision:** Mentoring of final students' research projects including helping students in planning, conduction of research, report writing and publication [2018- to date]. Recently, [Higher Education Commission, Pakistan](#) approved me for supervising MPhil and PhD students.
  - **Current PhD student:** Mr. Farooq Azam (Ref#: 20-NTU-PHTE-7001), research project "Development of hydrogel and aerogel fibres reinforced with textile fibres for biomedical and filtration applications"
- **Visiting Professor, RIPHAH International University, Islamabad, Pakistan:** Involved in the assessment of postgraduate students' progress, through formative activities and providing constructive feedback to complete their research projects [2017- to date].
- **Examiner for PhD thesis, University of Malaya, Malaysia. Title:** Effect of incorporation of green capping agents in the tooth staining potential, antibacterial efficacy, and remineralization potential of silver diamine fluoride [2021 – to date].
- **Examiner for MPhil thesis, [University of Health Sciences, Lahore, Pakistan](#):** Examiner for the following theses in the subjects of dental materials and oral biology [2013 – to date]:
  - i. **Title:** Hepatotoxic effect of nickel sulphate on mice. University of Health Sciences, Pakistan. (2013).
  - ii. **Title:** Evaluation of shear bond strength at amalgam-composite interface, by using two intermediate materials. University of Health Sciences, Pakistan. (2013).
  - iii. **Title:** A comparative evaluation of surface microhardness of three restorative materials when exposed to acidic beverages. University of Health Sciences, Pakistan. (2015).
  - iv. **Title:** Effect of different mouth washes on surface microhardness of microhybrid and nanocomposite. An-in vitro study. University of Health Sciences, Pakistan. (2017).
  - v. **Title:** Effect of adding peek composite and aluminum oxide particles on flexural strength of acrylic based denture. University of Health Sciences, Pakistan. (2019).
  - vi. **Title:** Role of garlic (*allium sativum*) extract on lead induced delayed eruption of incisors in Albino Wistar rats. University of Health Sciences, Pakistan. (2019).
  - vii. **Title:** Synthesis and characterization of a smart injectable fluoride-doped bioactive glass material. University of Health Sciences, Pakistan. (2020).
  - viii. **Title:** Assessment of Chemical, Mechanical and Microscopic Properties of Novel Self-adhesive Dental Composite. University of Health Sciences, Pakistan. (2021).
  - ix. **Title:** synthesis and characterizations of novel miswak powders based dental composites. University of Health Sciences, Pakistan. (2021).

#### 4.3 Research Techniques:



Being involved in active research for more than a decade, I have learned various skills required for conducting and publishing biomedical materials, dentistry, and related research. This is reflected by the completion of a number of research projects. While working as an individual and as a part of a research team, I practiced project management from planning experiments to data collection and critical analysis. Over the period, I have experienced following research techniques:

- **Solution characterization techniques:** Viscometry, Dynamic light scattering (DLS) for particle size analysis, Ion selective electrodes and conductivity
- **Biochemical characterization:** Bradford Assay, Electrophoresis (SDS-PAGE) for biomolecules, ELISA
- **Materials fabrication techniques:** Electrospinning for nano-fibres, Sol-gel route for composites and nano particles, Ion leaching for scaffolds, lyophilisation, Dip coating, Electrophoretic coating.
- **Materials characterization techniques:** Electron Microscopy (SEM and TEM), Elemental analysis (EDX), Fourier Transform Infra-Red (FTIR), UV-Vis spectroscopy, Thermal analysis (TGA), Non-contact profilometry, Contact angle measurement.
- **Mechanical testing:** Dynamic Mechanical Analysis (DMA), bond strength, compression and tensile testing, surface mechanical properties (microhardness, scratch testing).
- **Clinical research:** aware of issues related to clinical research including handling of biological tissues, ethical approval, patient's consent, data protection and publication ethics etc.

#### 4.4 Editorial and Peer-reviewing:

I am member of Pakistan Association of Medical Editors (PAME) and have a vast experience of editorial activities and peer-reviewing for scholarly journals. I have contributed to the editorial and peer-review activities. Currently, I have edited more than [865 articles](#) for various journals ([Journal of Taibah University Medical Sciences](#), [Current Issues in Molecular Biology](#), [polymers](#), [molecules](#), [dentistry Journal](#), [European Journal of Dentistry](#)), and peer-reviewed more than [1140 papers](#) for more than 220 reputed indexed journals, which are verified by the [web of science](#).

#### Editorial Appointments:

- Deputy Editor in Chief: [Journal of Taibah University Medical Sciences](#)
- Deputy Editor: [European J General Dentistry](#)
- Editorial board member for [polymers](#)' section Biomacromolecules, Biobased and Biodegradable Polymers
- Review Editor for "[Frontiers in Dental Medicine](#)"
- Section Editor of "[European Journal of Dentistry](#)"
- Editorial Board member of "Fluoride" official publication of the [International Society of Fluoride Research](#), New Zealand

#### Guest Editor of the Special Issues:

In [polymers](#) (Impact factor 5.0)

- [Polymers for Dental Restorative and Oral Tissue Engineering](#) (2021)
- [Polymers for Dental Restorative and Oral Tissue Engineering II](#) (2022)

- [Design of Monomers and Polymers with Dental Applications: Dental Composites and Adhesives](#) (2021)
- [State-of-the-Art Polymer Science and Technology in Saudi Arabia](#) (2021,2022)
- [Biopolymers-Based Nanocomposites: Preparation, Properties and Applications](#) (2022)

#### In **molecules** (Impact factor 4.6)

- [Chemistry of Medical and Dental Biomaterials](#) (2022)
- [Advancements of Materials for Prosthodontics and Dental Implantology](#) (2022)

#### Other Special Issues:

- [Current Issues in Molecular Biology](#)' special issue on "[Advances of Molecular Sciences in Dental Diseases Detection and Treatment](#)" (Impact factor 3.1)
- [Applied Sciences](#)' special issue on "[Applied Sciences in Oral Health and Clinical Dentistry](#)" (Impact factor 2.7)
- [dentistry Journal](#)'s special issue on "[Advanced Dental Biomaterials](#)" (Impact factor 2.6)
- [International Dental Journal](#)' special issue on "[Applications of Biotechnology for Maxillofacial Rehabilitation in Clinical Dentistry](#)"

## 5 Research:

### 5.1 Research Grants and Fundings:

- "Doctoral Research" Developing silk based nanocomposite materials for dental applications": [Collaborated project funded by NIH grant (from 2007-2017 code: ROI DE017207)]
- "Higher Education Commission of Pakistan (HEC) Scholar" Under Program Partial Support for PhD Studies Abroad; US \$ 10,000 awarded (2010).
- Ministry of Education, Taibah University, Deanship of Scientific Research grant as PI (2012-2013) Grant code 1434/4037" Grant of 99,000 SAR.
- Ministry of Education, Taibah University, Deanship of Scientific Research grant as PI (2013-2014) Grant code 1435/6134" Grant of 90,000 SAR
- Ministry of Education, Taibah University, Deanship of Scientific Research grant as CO-I (2013-2014) Grant code 1435/6110" Grant of 98,000 SAR
- Ministry of Education, Taibah University, Deanship of Scientific Research grant as CO-I (2014-2017); Grant code 1435/6183" Grant of 84,000 SAR
- National Science, Technology and Innovation Plan (NSTIP) Project 2016; Grant code: 14-ADV2767-05 "Coating of dental implant surface using natural silk based bioactive" Grant of 1.99M SAR.

### 5.2 My Research Strategy and Research Interests:



Since 2013, I have focused on research that is multidisciplinary and applied nature, which is reflected in my publications (please see below for the full list). My **research interests and publications** cover two main areas including biomaterials, dental materials, and their applications in clinical dentistry. My research interests are extremely multidisciplinary ranging from nanomaterials, bioceramics, composites, natural biomaterials, surface modifications, molecular biology, and tissue regeneration. The pivotal objective of my research has been biomaterials for dental applications, tissue engineering/regeneration, characterization (chemical, biological, and mechanical) of biomaterials and natural tissues. From the perspectives, I have research interest in the following themes:

**Dental Materials and clinical applications:** This are the main area of my research where I contributed by publishing a range of biomaterials (polymers, bioceramics and composites). A [publication](#) addressing the prosthodontics applications of polyetheretherketone (PEEK) benefited a large number of researchers [[cited 790+ times](#)] and the most cited paper (top#1 by [SCOPUS](#)) of all the time published by the [Journal of Prosthodontic Research](#) (Impact factor: 3.6). Recently, I highlighted another similar biomaterial [polyetherketoneketone \(PEKK\) for dental implants and prostheses applications](#) published by [Journal of Advanced Research](#) (Impact factor: 10.7). In addition, I have published on other prosthodontic materials including [polymethylmethacrylate](#), [vinyl polysiloxane](#), and tissue conditioners and restorative materials including resin composites, natural biomaterials (silk, chitosan) based composites. My dental material research is expanded to clinical applications in dentistry, mainly investigating at the interface of restorative, prosthodontic and periodontics disciplines and materials (Please see the full list of publications for details).

**Natural biomaterials for dentistry:** Since, my doctoral research project involved the exploration of natural silk proteins for developing various bioactive nanocomposites, I fortified my research interest in natural biomaterials including silk, chitosan, and propolis. A part of my doctoral research [published](#) that reported a novel and simple methods of segregating various silk proteins (heavy chain and light chain) that could be electrospun or processed for fabricating bioactive nanocomposites of tailored properties. In this work, I had the opportunity to learn about biomimetic approaches from my supervisors who has expertise in inorganic mineral-peptide interaction. I further explore natural [silk for bio-dental applications](#) specifically highlighting its potential for dentistry [[cited 67+ times](#)]. Similarly, considering the unique biological properties, I extend my interest to another natural biomaterials “chitosan” for it applications for [tissue regeneration](#) and [dentistry](#). Both publications proved excellent sources of information for researchers as evidenced by citations [[cited 248+ and 176+ times respectively](#)]. In addition, I investigated the antibacterial activity of [chitosan added to the restorative dental](#) composites and drug delivery from [biodegradable chitosan-based films](#) ([Pharmaceutics](#), impact factor: 5.4). Affinity with nature, my research interests include natural toothbrush ([miswak](#)), [propolis](#) or similar biomaterials and [biomimetic approaches](#) for dentistry.

**Oral biofluids, and molecular biology:** I developed interest in themes of oral biofluids [such as saliva, gingival crevicular fluid (GCF)], and related molecular biology as all the dental materials are required to perform in the complex oral environment. Therefore, it is important to understand the oral environment and complex biochemical interaction of dental materials and oral biofluids. Although sophisticated saliva collection devices are available, conventionally, it is collected by passive drooling method. I have published an article ([International Journal of Molecular Science](#), impact factor 5.6) about various [saliva collection devices](#) [[cited 157+ times](#)] encouraging researchers to use devices instead of drooling method. Furthermore, my interests in the salivary research include, proteomics (various [antimicrobial peptides](#) present in human saliva such as defensins, histatins, cathelicidins) and various [salivary biomarkers](#) for the diagnostic value. Furthermore, I explored various aspects of proteomic and molecular aspects at the interface of dental sciences including [[“Advances of Proteomic Sciences in Dentistry”](#)], [“Molecular Mechanisms Underlying Periodontal Diseases”](#)

([International Journal of Molecular Science](#), impact factor 5.6), “[Gene Therapy in Dentistry](#)” ([Genes](#), impact factor 3.5), “[Salivary IL-8, IL-6 and TNF- \$\alpha\$  as Potential Diagnostic Biomarkers for Oral Cancer](#)” ([Diagnostics](#) impact factor 3.6) and [Molecular and genetic aspects of odontogenic tumors](#)] that enhanced my learning and motivation about molecular biology research.

In a collaborative project with the genetic centre of Taibah university, we identified a new gene associated with primary eruption failure affecting multiple individuals from the same family that may be helpful in early diagnosis and treatment planning in affected patients (Published by Nature’s [Scientific Reports](#)). In addition to saliva, GCF is equally important that can interact with the dental materials in oral cavity. I published an article exploring the [proteomics of GCF](#) and its significance. Recently, a collaborative project investigated the microbiological analysis of GCF in patients using prostheses fabricated of various biomaterials. The microbiology characteristics were influenced by both materials type and fabrication technique ([International Journal of Molecular Science](#), impact factor 5.6).

**Tissue engineering and regenerative medicine:** Tissue engineering scaffolds are an important part of biomaterials science. Like other tissues, the scope of biomaterials for oral tissue engineering has grown remarkable. My interest in tissue engineering was fostered as one of the target applications of my doctoral research was tissue engineering scaffolds for dental (dentin) regeneration. Using electrospinning and sol-gel routes, I fabricated 2D and 3D porous scaffold that could be functionalized by condensing bioactive inorganic silica. I comprehensively discussed the progress and challenges in the translational research of [oral tissue engineering](#). In addition to tissue engineering scaffolds, my research interests include tissue engineering of various oral tissues including [periodontal](#), [salivary](#) glands and other oral tissues.

**Nanotechnology and nanomaterials in dentistry:** The unique benefits of nanotechnology in various discipline of science have been known for a few decades. I found nanotechnology fascinating while analysing electrospun nanofibers under the electron microscope. It was interesting to observe that a minor change in the solution or electrospinning parameters significantly altered the morphology of nano-fibers at the nanoscale. The correlation of solution properties of various silk fractions and the morphology of electrospun materials was [published](#). I was motivated to further explore the [electrospun nanofibers for biomedical and dental applications](#) [cited 197+ times] and [Electrospinning of chitosan-based solutions for tissue engineering and regenerative medicine](#) [cited 248+ times]. In addition, my research interests include nanoscale characterization of dental materials and dental hard tissues. I contributed an article “[Advances in nanotechnology for restorative dentistry](#)” particularly focusing nanomaterials aspects for restorative dentistry clinicians and researchers [cited 239+ times]. Recently, in a collaborative project, graphene oxide nanoparticles were added to resin adhesive and characterized for a range of properties using SEM, EDX, Micro-Raman, and microtensile bond strength. It was concluded that adding graphene oxide nanoparticles enhanced the microtensile bond strength through uniform diffusion to adhesive ([Polymer](#), Impact factor 5.0). My research interests in nanomaterials cover various biomaterials including nano-ionomers, nanodiamonds and nanocomposites for dental and tissues regeneration applications.

**Fluoride and oral health:** The role of fluoride in oral health and reducing tooth decay is well evident. At the same time, there is an exhaustive number of published articles about fluoride and oral health. Recently, I conducted a [bibliometric analysis](#) identifying the most impactful articles about fluoride in relation to oral health. Furthermore, I extensively reviewed various aspects of fluoride in relation to oral biomaterials including “[Potential fluoride toxicity from oral medicaments](#)” [cited 146+ times], “[Oral and dental delivery of fluoride](#)” [cited 102+ times], and “[Therapeutic roles of fluoride released from restorative dental materials](#)” [cited 70+ times]. My main research interest remains the development of either new or improve fluoride release from existing materials without compromising their physical and mechanical properties.

**Dental Education:** Being associates with teaching, I have developed research interests in exploring pedagogic and learning techniques. In the COVID-19 time, I contributed to a study investigating "[Assessment of blended learning for teaching dental anatomy to dentistry students](#)" published by Journal of Dental Education. I have already delivered two modules using the blended learning approach where some practical sessions focusing psychomotor skills were delivered face-to-face while some using the virtual learning platform. I was able to convince many of my peers to use the blended learning to benefit from the technology. Recently, I was invited to contribute a review article title: "[Literature search strategies in dental education and research](#)" guiding student and researchers with useful approaches for using database and literature search. I hope to contribute further to this research theme after the completion of my ongoing master's degree in medical education.

### 5.3 Research Collaborations and Publications:

For all my research activities, I have been instrumental in developing international collaborations and networking that is reflected in my publications (Table) with more than [435 co-authors](#) from national and international institutes. Here is the brief summary, of citation data from the [Google Scholar](#) databases followed by full list of publications including journal articles, edited books and book chapters:

	All	Since 2018
Citations	10130	9165
h-index	51	48
i10-index	165	157

#### Journal Articles (total impact factor ~530)

	Title	Journal Name	Impact Factor
<b>Year 2023</b>			
1	Khan A, <b>Zafar MS</b> , Fareed MA.....Vallittu P. <a href="#">Fiber-reinforced composites in dentistry - an insight into adhesion aspects of the material and the restored tooth construct</a> . 39(2); 141-51.	<a href="#">Dental Materials</a>	5.0
2	Alqutaibi A, Baik A, Almuzaini S, Farghal A, Alnazzawi A, Borzangy S, Aboalrejal A, ..... <b>Zafar MS</b> . <a href="#">Polymeric Denture Base Materials: A Review</a> . 15(15) 3258.	<a href="#">Polymers</a>	5.0
3	Dahri W, Kumar N, Altaf N, Mughal W, <b>Zafar MS</b> . <a href="#">Mechanical performance of bulk-fill resin dental composites following exposure in the simulated acidic oral environment</a> . 8(1); 19.	<a href="#">Biomimetics</a>	4.5
4	Shabbir J, Khurshid Z, Farooqi W, <b>Zafar MS</b> , Sarwar H, et al., <a href="#">In-vitro antibacterial efficacy of Propolis against E. faecalis as compared to other intracanal medicaments: A systematic review and meta-analysis</a> . E-Pub, 40; 100673.	<a href="#">Journal of Herbal Medicine</a>	2.3
5	Rokaya D, Skallevoid H, Srimaneepong V, Marya A, Shah P, Khurshid Z, <b>Zafar MS</b> , Sapkota J. <a href="#">Shape Memory Polymeric Materials for Biomedical Applications: An Update</a> . 7(1); 24.	<a href="#">J. Compos. Sci.</a>	3.3
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**Edited Books**

**1. Lead editor of the book**

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No. of chapters: 15

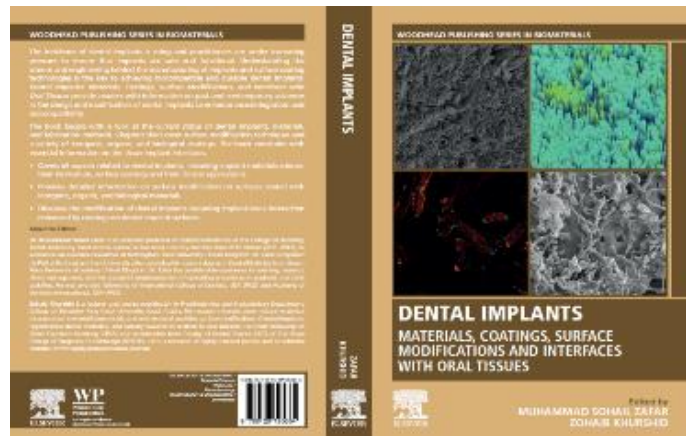
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**2. Editor of the book**

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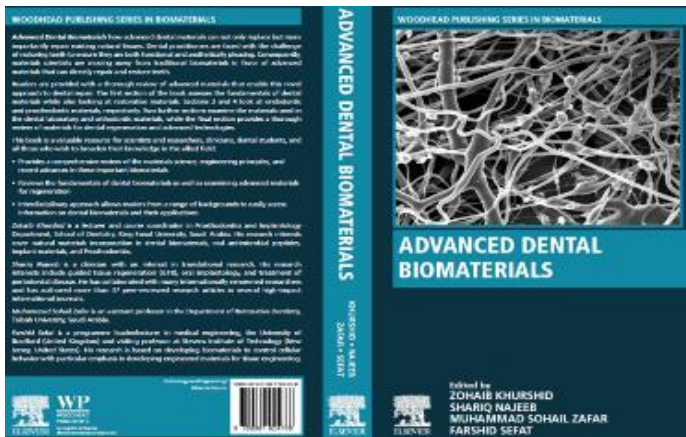
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**3. Editor of the book**

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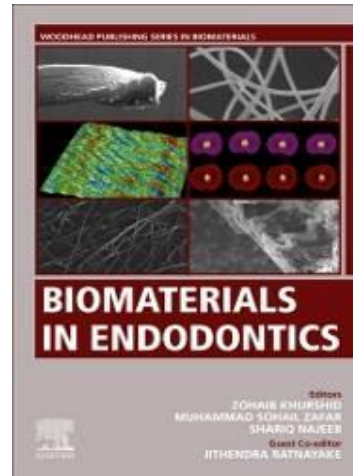
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**4. Editor of the book**

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No. of pages: 425

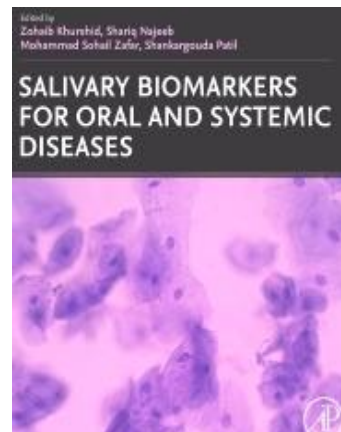
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### 5.3 Keynote Presentations and Conducted Workshops

- **2023 – Contact a Workshop** on; “**Citations and Research Impact of Publications**” as part of Faculty Development Program, College of Dentistry, Taibah University, Al Madina Al Munawara, Saudi Arabia
- **2019 – Contact a Workshop** on; “**Publishing Dental Research**” as part of Emerging trends in dental research; 6th PADR Annual Conference, Karachi, Pakistan
- **2019 – Keynote Speaker**; “Recent Developments in Dental Implant Materials”, 6th PADR Annual Conference, Karachi, Pakistan
- **2018 – Keynote Speaker**; “Natural silk as a potential biomaterial for restorative dental applications”, ADEEC, Dubai, UAE
- **2016 – Conducted a workshop** and hands on “**Saliva proteomics**” workshops, CMH, Lahore, Pakistan
- **2015 – FDI 103<sup>rd</sup>** international congress, Bangkok, Thailand. Oral presentation.
- **2013 – Poster presentation** "Prevalence of caries in immigrants in Madina city" at FDI 101<sup>st</sup> international congress, Istanbul, Turkey
- **2010 – Presentation** on “**Use of silk for dental biomaterials**” at NTU School of Science and Technology Research Conference, UK
- **2009 – Presentation** on “**Silk structure and silk based biomaterials**” at NTU School of Science and Technology Research Conference, UK
- **2007-2011 – Several presentations** of PhD research in annual meetings, UK
- **2007 – Presentation** on “Developing silica based nanocomposite materials for dental applications” in UKBS 8<sup>th</sup> annual conference at University of Ulster, UK
- **2002 – Presented a Table clinic** on the subject of Periodontics, “*Role of antibiotics in gum diseases*” at 4<sup>th</sup> Southeast Asian and 22<sup>nd</sup> National Dental Congress in Lahore. Pakistan
- **2000 – Presentation** on “Sjorgen Syndrome” at de’Montmorency College of Dentistry for best presentation award.

## 6 Continuous Professional Development activities

- “**Research methodology, biostatistics and dissertation writing**” World Health Organization (WHO) Collaborating Center, Department of Medical Education, CPSP (26<sup>th</sup> – 29<sup>th</sup> March 2003)
- “**Communication skills**” WHO Collaborating Center, Department of Medical Education, CPSP (3<sup>rd</sup>-5<sup>th</sup> April 2003)
- “**Introduction to computer and internet**” WHO Collaborating Center, Department of Medical Education, CPSP (21<sup>st</sup> – 26<sup>th</sup> April 2003)
- “**Mini, midi, maxi and maxi z implants**” by Dr. Amr Zahran, Osteocare UK (3<sup>rd</sup> March 2007)
- “**British dental showcase**” The British Dental Trade Association, UK (5<sup>th</sup> – 7<sup>th</sup> September 2006)
- “**I.V cannulation and venepuncture training**” Nottingham University Hospital (NHS), Nottingham, UK (4<sup>th</sup> February 2009)
- “**Challenges in dental materials teaching**” Association of Basic Science Teachers in Dentistry, School of Dentistry, University of Birmingham, UK (22<sup>nd</sup> April 2009)



- **“Non surgical Periodontics”** by Dr. Khalid Almas, arranged by Pak Dental Education Society, Pakistan (4<sup>th</sup> August 2002)
- **“The scientific basis of diagnosis and treatment planning in orthodontics”** by Dr. Muhammad Tahir Bukhary, arranged by Pak Dental Education Society, Pakistan (6<sup>th</sup> – 7<sup>th</sup> July 2001)
- **“Essential Teaching Toolkit”** Nottingham Trent University, Nottingham, UK (2010)
- **“Introduction to Learning and Teaching in Higher education”** Nottingham Trent University, Nottingham, UK (2010)
- **“Safe handling of compressed gases for scientific research”** Nottingham Trent University, Nottingham, UK (2009)
- **“Workstation essentials, Fire safety essentials and handling essentials”** EssentialSkillz, Galway, Ireland. (February 2008)
- **“R4 Clinical + Systems”** training for handling clinical data base. Taibah University, Al Madinah Al Munawwarah. Kingdom of Saudi Arabia. (17<sup>th</sup> – 19<sup>th</sup> September 2012).
- **Moog Simodont trainer**, Simodont, Netherlands. (2013).
- Workshop of **“Preparation for academic accreditation”**, Taibah University, Saudi Arabia (2015)
- **How to become a reviewer and what do editors expect?** Elsevier Researcher Academy, UK (2015).
- **“Protecting Human Research Participants”**, NIH, USA (2017)
- **“Assessment of ILO’s (Intended Learning Objectives)”** Taibah University, Saudi Arabia (2019)
- **“Bibliometrics analysis of academic articles”**, Taibah University, Saudi Arabia (2020)
- **Publons Academy Supervisor**, Publons, Web of Science (2021)
- **Journal indexing in Scopus**, Elsevier Researcher Academy (2021).
- **“Conducting Clinical Trials in Pakistan; Challenges & Opportunities”** Interdisciplinary Research Centre in Biomedical Materials (IRCBM), CUI, Pakistan September 2021.
- **Saudi International Prosthodontic Conference 2021**, Saudi Prosthodontic Society, 28-30 October, 2021, Saudi Arabia
- **16<sup>th</sup> CAD/CAM & Digital Dentistry International Conference**, 11-14 November 2021, CAPP, UAE.
- **13<sup>th</sup> Dental Facial Cosmetic International Conference**, 18-21 November 2021, CAPP, UAE.

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