



**CURRICULUM VITAE**

Name and Surname: Almira Ada Diken Türksayar  
Academic Title: Associate Professor  
Work Address:   
Email: aturksayar@biruni.edu.tr  
Area of Expertise: Health Sciences

Degree	Department/Program	University	Year
Specialty in Dentistry	Protetik Diş Tedavisi Anabilim Dalı	Kırıkkale University	2019
Bachelor's Degree	SİYASET BİLİMİ VE KAMU YÖNETİMİ BÖLÜMÜ	Anadolu University	2019
Master's Degree		Hacettepe University	2014

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s):

Estetik zirkonyum, polieteterketon ve polieterketonketon implant dayanakları üzerine yapılan lityum disilikatla güçlendirilmiş CAD/CAM monolitik cam seramik kronların yaşlandırma işlemi sonrası kırılma dayanımlarının ve kırılma tiplerinin in vitro değerlendirilmesi

Position Title	Workplace	Year
Associate Professor	Biruni University	2023-Continues
Assistant Professor	Biruni University	2020-2023
Research Assistant	Kırıkkale University	2016-2019

Supervised Doctoral Theses/Proficiency Studies in Arts:

- ÜÇ BOYUTLU YAZICILARLA ÜRETİLEN FARKLI İMPLANT DAYANAKLARININ KIRILMA DAYANIMLARININ DEĞERLENDİRİLMESİ (2023)
- Postpolimerizasyon yöntemleri ve yapay yaşlandırmanın üç boyutlu yazıcıyla üretilen rezin içerikli materyallere etkisi (2023)

Roles in Projects:

- Farklı Ağız İçi Tarayıcılarla Alınan Ölçülerin Doğruluk Ve Hassasiyetinin Karşılaştırılması, Project Supported by Higher Education Institutions, Diken Türksayar A. A., Dönmez M. B., Demirel M. (Executive), 2022-2024.
- Üç Boyutlu Yazıcılarla Üretilen Daimi Kron Materyallerin Farklı Antagonistler Varlığında Aşınma Dayanımının Değerlendirilmesi, Project Supported by Higher Education Institutions, Diken Türksayar A. A., Dönmez M. B., Demirel M., Bulucu N. B. (Executive), 2022-Continues.
- Farklı Tekniklerle Üretilmiş Geçici Restorasyon Materyallerinin Yaşlandırma Sonrası Renk Değişimleri ve Vickers Sertliklerinin Değerlendirilmesi, Project Supported by Higher Education Institutions, Dönmez M. B., Olcay E. O., Demirel M., Diken Türksayar A. A., Şahmalı S. M. (Executive), 2022-Continues.

4. Farklı kişisel İmplant abutmentlarının ve kron materyallerinin tek İmplantlar üzerinde ve periferik kemikte yarattığı streslerin 3D sonlu elemanlar analizi ile değerlendirilmesi, Project Supported by Higher Education Institutions, Dönmez M. B., Diken Türksayar A. A., 2020-2022.
5. Transludent Zirkonyanın Optik Özellikleri ve Resin Siman Polimerizasyonuna Etkisi, Project Supported by Higher Education Institutions, Diken Türksayar A. A., 2021-2021.
6. FARKLI ÜRETİM TEKNİKLERİYLE ELDE EDİLEN GÜNCEL CAD/CAM MATERYALLERİNİN KIRILMA DAYANIMLARININ DEĞERLENDİRİLMESİ, Project Supported by Higher Education Institutions, Diken Türksayar A. A., 2020-2021.
7. DİJİTAL DIŞ HEKİMLİĞİNDE GÜNCEL RESTORATİF MATERYALLERİN YAŞLANDIRMA SONRASI AŞINMA MİKTARININ DEĞERLENDİRİLMESİ, Project Supported by Higher Education Institutions, Diken Türksayar A. A., 2020-2021.
8. 2018/022Polieterketonketon Polimerik Materyalinden İmplant Dayanaklarının Elde Edilerek Kırılma Dayanımlarının Değerlendirilmesi, Project Supported by Higher Education Institutions, Atsü S. (Executive), Diken Türksayar A. A., 2018-2019.
9. Lityum Disilikatla Güçlendirilmiş Monolitik Cam Seramik Kronlarla Restore Edilen Titanyum Alt Yapılı BioHPP ve Zirkonya İmplant Dayanaklarının 5 Yıllık Dinamik Yükleme ve Termal Siklus Sonrası İnvitro Olarak Kırılma Dayanımlarının ve Kırılma Tiplerinin Değerlendirilmesi, Project Supported by Higher Education Institutions, Atsü S. (Executive), Diken Türksayar A. A., 2018-2019.

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Administrative Duties:

1. Head of Department - Biruni University (2024 - Continues)
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Memberships in Scientific Organizations:

1. Science Academy (Member) (2025 - Continues)
  2. Science Academy (Member) (2017 - Continues)
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Awards:

1. AG Ceramics Research Award (2025)
  2. ABDİ İBRAHİM BİLİM ÖDÜLÜ/ Sözlü Bildiri İkincilik Ödülü (2022)
  3. Sözlü Bildiri İkincilik Ödülü (2022)
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## **PUBLICATIONS**

### **A. Articles published in international peer-reviewed journals:**

- A1. Dönmez M. B., Fınc A. L., Demirel M., Diken Türksayar A. A., Örg ev A., Çakmak G., Yılmaz B., "Dimensional stability of additively manufactured dental casts in bio-based resins: Influence of base design and storage conditions", *Journal of Dentistry*, vol. 162, 2025.
- A2. Arslan Acicbe B., Deniz S., Diken Türksayar A. A., Dönmez M. B., Demirel M., "Fabrication and fit accuracy of definitive resin fixed partial dentures additively manufactured using different vat polymerization technologies", *Journal of Dentistry*, vol. 162, 2025.
- A3. Dönmez M. B., Demirel M., Diken Türksayar A. A., Yılmaz B., "Influence of printing parameters on the fabrication and fit accuracy of additively manufactured resin-based definitive three-unit fixed partial dentures", *Journal of Dentistry*, vol. 161, 2025.
- A4. Dönmez M. B., Diken Türksayar A. A., Demirel M., Örg ev A., Çakmak G., Dede D. Ö., Yılmaz B., "Dimensional stability of maxillary casts made from plant-based resins and additively manufactured with different technologies", *Journal of Prosthetic Dentistry*, vol. 134, no. 3, 2025.
- A5. Dağ istan S., Toksoy D., Ön oral Ö., Diken Türksayar A. A., "Effect of different additive manufacturing technologies on the fracture load of 3-unit monolithic zirconia fixed partial dentures: In vitro mechanical evaluation and energy-dispersive spectroscopy analysis", *Journal of Prosthetic Dentistry*, vol. 134, no. 1, 2025.
- A6. Unkovskiy A., Diken Türksayar A. A., Beuer F., Li P., Bomze D., Yassine J., Schmidt F., "Influence of 3D-printed, milled and pressed lithium disilicate on the bond strength to two resin cements: an in vitro study", *Journal of Dentistry*, vol. 157, 2025.

- A7. Demirel M., Diken Türksayar A. A., Donmez M. B., Schimmel M., Yılmaz B., "Evaluation of the fabrication trueness and internal fit of additively manufactured two-piece zirconia abutments with different build orientations compared to subtractively manufactured abutments", *Journal of Dentistry*, vol. 153, 2025.
- A8. Diken Türksayar A. A., Kanpalta B., Bulucu N. B., Schulnig S., Spintzyk S., Demirel M., Dönmez M. B., "Marginal gap of printed, milled, and heat-pressed two-piece polyetheretherketone abutments before and after thermal cycling, and their pull-off bond strength after thermal cycling", *Journal of Prosthodontics*, 2025.
- A9. Dönmez M. B., Ersöz E., Çakmak G., Diken Türksayar A. A., Altıncı P., Yılmaz B., "Fracture strength of additively manufactured one-piece endodontic crowns in resins for definitive use: Effect of material type, margin configuration, and pulp chamber depth", *Journal of Prosthetic Dentistry*, 2025.
- A10. Diken Türksayar A. A., Petersmann S., Spintzyk S., "The effect of thermomechanical aging on the fracture resistance of additively and subtractively manufactured polyetheretherketone abutments", *Journal of Dentistry*, vol. 149, 2024.
- A11. Demirel M., Diken Türksayar A. A., Donmez M. B., Yılmaz B., "Effect of 3D printing technology and print orientation on the trueness of additively manufactured definitive casts with different tooth preparations", *Journal of Dentistry*, vol. 148, 2024.
- A12. Diken Türksayar A. A., Demirel M., Donmez M. B., Olcay E. O., Eyüboğlu T. F., Özcan M., "Comparison of wear and fracture resistance of additively and subtractively manufactured screw-retained, implant-supported crowns", *Journal of Prosthetic Dentistry*, vol. 132, no. 1, pp. 154-164, 2024.
- A13. Diken Türksayar A. A., Demirel M., Petersmann S., Spintzyk S., Donmez M. B., "Positional accuracy of a single implant analog in additively manufactured casts in biobased model resin", *Journal of Dentistry*, vol. 146, 2024.
- A14. Diken Türksayar A. A., Diker B., "Effect of layer thickness and polishing on wear resistance of additively manufactured occlusal splints", *Journal of Dentistry*, vol. 146, 2024.
- A15. Demirel M., Diken Türksayar A. A., Petersmann S., Spintzyk S., Donmez M. B., "Dimensional Stability of Additively Manufactured Dentate Maxillary Diagnostic Casts in Biobased Model Resin", *Materials*, vol. 17, no. 9, 2024.
- A16. Olcay E. O., Diken Türksayar A. A., Demirel M., Donmez M. B., Şahmalı S. M., "Effect of partially stabilized zirconia thickness on the translucency and microhardness of resin cement", *Journal of Prosthetic Dentistry*, vol. 131, no. 1, pp. 94-99, 2024.
- A17. Baytur S., Diken Türksayar A. A., "Effects of post-polymerization conditions on color properties, surface roughness, and flexural strength of 3D-printed permanent resin material after thermal aging", *Journal of Prosthodontics*, 2024.
- A18. Diken Türksayar A. A., Demirel M., Donmez M. B., "Optical properties, biaxial flexural strength, and reliability of new-generation lithium disilicate glass-ceramics after thermal cycling", *Journal of Prosthodontics*, vol. 32, no. 9, pp. 815-820, 2023.
- A19. Demirel M., Diken Türksayar A. A., Donmez M. B., "Fabrication trueness and internal fit of hybrid abutment crowns fabricated by using additively and subtractively manufactured resins", *Journal of Dentistry*, vol. 136, 2023.
- A20. Diken Türksayar A. A., Baytur S., "Color stability, surface roughness and flexural strength of additively manufactured and milled interim restorative materials after aging", *Odontology*, vol. 111, no. 3, pp. 680-686, 2023.
- A21. Demirel M., Diken Türksayar A. A., Donmez M. B., "Translucency, color stability, and biaxial flexural strength of advanced lithium disilicate ceramic after coffee thermocycling", *Journal of Esthetic and Restorative Dentistry*, vol. 35, no. 2, pp. 390-396, 2023.
- A22. Diken Türksayar A. A., Donmez M. B., "Stress behavior of an anterior single implant restored with high-performance polymer abutments under immediate and delayed loading: A 3D FEA study", *Journal of Prosthodontics*, vol. 32, no. 2, pp. 132-138, 2023.
- A23. Diken Türksayar A. A., "Effect of Thermomechanical Aging on the Surface Roughness and Color Stability of Novel CAD-CAM Materials: An In-Vitro Study", *Clinical and Experimental Health Sciences*, vol. 13, no. 385, 2022.
- A24. Diken Türksayar A. A., Donmez M. B., Olcay E. O., Demirel M., Demir E., "Effect of printing orientation on the fracture strength of additively manufactured 3-unit interim fixed dental prostheses after aging", *Journal of Dentistry*, vol. 124, 2022.
- A25. Donmez M. B., Diken Türksayar A. A., Olcay E. O., Sahmalı S. M., "Fracture Resistance of Single-Unit Implant-Supported Crowns: Effects of Prosthetic Design and Restorative Material", *Journal of Prosthodontics*, vol. 31, no. 4, pp. 348-355, 2022.
- A26. Diken Türksayar A. A., Hisarbeyli D., Seçkin Kelten Ö., Bulucu N. B., "Wear behavior of current computer-aided design and computer-aided manufacturing composites and reinforced high performance polymers: An in vitro study", *Journal of Esthetic and Restorative Dentistry*, vol. 34, no. 3, pp. 527-533, 2022.
- A27. Diken Türksayar A. A., Bulut A. C., Atsü S. S., "Evaluation of the Effect of Different Abutment Materials on the Final Color of the Restoration After Aging: An In Vitro Study", *International Journal of Prosthodontics*, vol. 35, no. 5, pp. 676-683, 2022.
- A28. Diken Türksayar A. A., Atsü S. S., "Fracture Resistance of Zirconia, Polyetheretherketone, and Polyetherketoneketone Implant Abutments After Aging", *International Journal of Oral and Maxillofacial Implants*, vol. 36, no. 2, pp. 332-340, 2021.
- A29. Diken Türksayar A. A., Sağlam S., Bulut A., "Retention systems used in maxillofacial prostheses: A review", *Nigerian Journal of Clinical Practice*, vol. 22, no. 12, pp. 1629-1634, 2019.

## **B. Papers presented at international scientific meetings and published in proceedings:**

- B1. Balaban M., Demirel M., Diken Türksayar A. A., Dönmez M. B., Trueness and Internal Fit of Additively Manufactured Interim Crowns, In: *FDI World Dental Congress 2024*, İstanbul, Turkey, 2024.
- B2. Arslan Acicbe B., Deniz S., Diken Türksayar A. A., Eklemeli Üretimle Üretilen Zirkonyanın Vickers Mikrosertliğinin Değerlendirilmesi: Pilot Çalışma, In: *Çukurova Üniversitesi, Diş Hekimliği Fakültesi 2. Uluslararası Eklemeli İmalat Kongresi*

(IDCAM 2024), Adana, Turkey, 2024.

**B3.** Diken Türksayar A. A., Petersmann S., Spintzyk S., Demirel M., Dönmez M. B., Retention of additively and subtractively - manufactured polyetheretherketone to titanium base abutment: A pilot study, In: *30th Annual Scientific Meeting of the European Association for Osseointegration*, Berlin, Germany, 2023.

**B4.** Öztemel N., Demirel M., Diken Türksayar A. A., Evaluation of Trueness of 3D-Printed Custom Open Trays For Single Implant Impressions, In: *46th EPA Congress*, Vilnius, Lithuania, 2023.

### **C. National/international books written or chapters in books:**

#### **C2. Chapters in national/international books written:**

**C2.1.** Diken Türksayar A. A., "Porselen Laminate Veneerlerin Klinik Performansı", *GÜNCEL PROTETİK DIŞ TEDAVİSİ ÇALIŞMALARI*, Akademisyen Yayınevi, İstanbul, 2020.

**C2.2.** Diken Türksayar A. A., "MAKSİLLOFASİYAL PROTEZLERDE KULLANILAN MATERYALLERE GENEL BAKIŞ VE GÜNCEL TEKNİKLER", *GÜNCEL PROTETİK DIŞ TEDAVİSİ ÇALIŞMALARI*, Akademisyen Yayınevi, İstanbul, 2020.

### **D. Articles published in national peer-reviewed journals:**

**D1.** Diken Türksayar A. A., Schulnig S., Spintzyk S., Yeşil Kurt İ. B., "Investigating the influence of infill pattern and layer height on the mechanical and bonding behavior of additively manufactured PEEK for dental applications", *Journal of Prosthetic Dentistry*, 2025.

**D2.** Demirel M., Emir F., Ceylan G., Diken Türksayar A. A., "Comparative Analysis of the Accuracy of Six Intraoral Scanners Using a Full-Arch Model", *European Annals of Dental Sciences*, vol. 51, no. 3, pp. 141-146, 2024.

**D3.** Demirel M., Diken Türksayar A. A., Dönmez M. B., "Dimensional Stability of Additively Manufactured Maxillary Dental Casts for a Three-unit Fixed Partial Denture Fabricated with Different Build Orientations", *Eurasian Dental Research*, vol. 2, no. 1, 2024.

**D4.** Ceylan G., Diken Türksayar A. A., Demirel M., Emir F., Dönmez M. B., "Farklı İnteraoral Tarayıcıların İmplant Ölçü Hassasiyeti Üzerindeki Etkisinin Değerlendirilmesi", *ADO Klinik Bilimler Dergisi*, vol. 13, no. 1, 2024.

**D5.** Diken Türksayar A. A., Dönmez M. B., Demirel M., "Ağız İçi Tarayıcıların Farklı Restorasyon Tasarımlarının Tarama Doğruluğuna Etkisi", *ADO Klinik Bilimler Dergisi*, vol. 13, no. 1, 2024.

**D6.** Diken Türksayar A. A., Bulut A. C., "Dental Anksiyete ve Ağız Sağlığı Etki Ölçeğine Etkisi", *Selcuk Dental Journal*, vol. 10, no. 1, 2023.

**D7.** Diken Türksayar A. A., Baytur S., "EVALUATION OF FLEXURAL STRENGTH OF DIFFERENT RESTORATIVE MATERIALS", *Istanbul Üniversitesi-Sağlık Bilimlerinde İleri Araştırmalar Dergisi*, vol. 6, no. 2, 2023.

**D8.** Diken Türksayar A. A., Bulut A. C., "RETROSPECTIVE LATERAL SEFALOMETRIC ANALYSIS OF PATIENTS USING MANDIBLE ADVANCEMENT DEVICES IN THE TREATMENT OF OBSTRUCTIVE SLEEP APNEA SYNDROME", *Journal of Advanced Research in Health Sciences*, vol. 6, no. 1, 2023.

**D9.** Diken Türksayar A. A., Bulut A. C., "EFFECT OF EIGHT DIFFERENT DISINFECTION METHODS ON THE SURFACE ROUGHNESS AND FLEXURAL STRENGTH PROPERTIES OF ACRYLIC RESINS", *Türkiye Klinikleri Diş Hekimliği Bilimleri Dergisi*, vol. 29, no. 1, 2023.

**D10.** Olcay E. O., Diken Türksayar A. A., Dönmez M. B., "Evaluation of the effect of the new type of coronavirus epidemic on the perspectives, clinical attitudes, and behaviors of trainee dentistry students Yeni tip koronavirüs salgınının stajyer diş hekimliği öğrencilerinin mesleğe bakış açlarına, klinik tutum ve davranışlarına etkisinin değerlendirilmesi", *Current Research in Dental Sciences*, 2022.