

## Assoc. Prof. ZEYNEP ASLI ÖZKAYA

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-0453-0167

ScopusID: 57163517700

Yoksis Researcher ID: 16972

### Education Information

Doctorate, Gazi University, Diş Hekimliği Fakültesi, Pedodonti, Turkey 2008 - 2012

Undergraduate, Gazi University, Diş Hekimliği Fakültesi, Turkey 2002 - 2007

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Opak lezyonların tedavisinde cpp-acp kullanımının etkinliği, Gazi Üniversitesi, Diş Hekimliği Fakültesi, Pedodonti, 2012

### Research Areas

Health Sciences, Dentistry, Clinical Sciences, Pedodontics

### Academic Titles / Tasks

Associate Professor, Erciyes University, Diş Hekimliği Fakültesi, Klinik Bilimler, 2019 - Continues

Assistant Professor, Erciyes University, Klinik Bilimler, Pedodonti, 2015 - 2018

### Academic and Administrative Experience

Erciyes University, 2016 - Continues

Erciyes University, 2016 - 2018

Trakya University, 2014 - 2015

Trakya University, 2014 - 2015

Trakya University, 2013 - 2015

Trakya University, 2013 - 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluation of primary teeth affected by dental trauma in patients visiting a university clinic, part 2: dental injury types, treatment strategies, and complications**  
Bulut E., Özkaya (Güçlü) Z. A.  
CLINICAL ORAL INVESTIGATIONS, vol.12, no.27, pp.1-10, 2022 (SCI-Expanded)
- II. **Evaluation of primary teeth affected by dental trauma in patients visiting a university clinic, Part 1: Epidemiology**  
Bulut E., Özkaya Z. A.  
CLINICAL ORAL INVESTIGATIONS, vol.26, no.11, pp.6783-6794, 2022 (SCI-Expanded)
- III. **Can zirconia crowns be the first restorative choice after endodontic treatment of primary teeth?**  
Ash Güçlü Z. A., Çalışkan S., Efe Z., Doğan S.  
International journal of clinical practice, vol.75, no.12, 2021 (SCI-Expanded)
- IV. **Assessment of the Impact of the Addition of Nanoparticles on the Properties of Glass-Ionomer Cements**  
Gjorgievska E., Nicholson J. W., Gabric D., Guclu Z. A., Miletic I., Coleman N. J.  
MATERIALS, vol.13, no.2, 2020 (SCI-Expanded)
- V. **Corrigendum to "A 12-Week Assessment of the Treatment of White Spot Lesions with CPP-ACP Paste and/or Fluoride Varnish".**  
Güçlü Z. A., Alaçam A., Coleman N. J.  
BioMed research international, vol.2018, pp.1816959, 2018 (SCI-Expanded)
- VI. **Effect of Er:YAG laser enamel conditioning and moisture on the microleakage of a hydrophilic sealant**  
Guclu Z. A., Hurt A. P., Dönmez N., Coleman N. J.  
ODONTOLOGY, vol.106, no.3, pp.225-231, 2018 (SCI-Expanded)
- VII. **Release of antimicrobial compounds from a zinc oxide-chelate cement**  
Tuzuner T., Guclu Z. A., Hurt A., Coleman N. J., Nicholson J. W.  
JOURNAL OF ORAL SCIENCE, vol.60, no.1, pp.24-28, 2018 (SCI-Expanded)
- VIII. **Composite Sponges for in Situ Alveolar Bone Regeneration Following Tooth Extraction**  
Guclu Z. A., Hurt A. P., Ohia L., Coleman N. J.  
ACTA PHYSICA POLONICA A, vol.131, no.3, pp.580-583, 2017 (SCI-Expanded)
- IX. **An in Vitro Comparison of the Enamel Remineralisation Potential of Bioactive Glass, Hydroxyapatite and CPP-ACP**  
Guclu Z. A., GJORGIEVSKA E. S., Coleman N. J.  
ACTA PHYSICA POLONICA A, vol.131, no.3, pp.571-575, 2017 (SCI-Expanded)
- X. **Characterisation and microleakage of a new hydrophilic fissure sealant - UltraSeal XT (R) hydro (TM)**  
Guclu Z. A., Dönmez N., Hurt A. P., Coleman N. J.  
JOURNAL OF APPLIED ORAL SCIENCE, vol.24, no.4, pp.344-351, 2016 (SCI-Expanded)
- XI. **The impact of Er:YAG laser enamel conditioning on the microleakage of a new hydrophilic sealant-UltraSeal XT (R) hydro (TM)**  
Guclu Z. A., DONMEZ N., TÜZÜNER T., Odabas M. E., Hurt A. P., Coleman N. J.  
LASERS IN MEDICAL SCIENCE, vol.31, no.4, pp.705-711, 2016 (SCI-Expanded)
- XII. **A 12-Week Assessment of the Treatment of White Spot Lesions with CPP-ACP Paste and/or Fluoride Varnish**  
Guclu Z. A., Alacam A., Coleman N. J.  
BIOMED RESEARCH INTERNATIONAL, 2016 (SCI-Expanded)
- XIII. **The Importance of the Condition of the Donor Teeth and Jaws During Allogeneic Face Transplantation**  
Ozel A. S., Guclu Z. A., Gulsen A., Ozmen S.  
JOURNAL OF CRANIOFACIAL SURGERY, vol.26, no.4, pp.1338-1341, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The Impact of Nano- and Micro-Silica on the Setting Time and Microhardness of Conventional Glass-Ionomer Cements**  
ÖZKAYA Z. A., PATAT Ş., Coleman N. J.  
Dentistry Journal, vol.12, no.3, 2024 (ESCI)
- II. **In vitro Evaluation of the Shear Bond Strength of Different Luting Cements on Zirconium Oxide Specimens in Primary Teeth**  
HİDAYET Z., ÖZKAYA Z. A.  
BEZMIALEM SCIENCE, vol.9, 2021 (ESCI)
- III. **Nanomaterials and Nanorobotics in Dentistry: A Review**  
KASIMOĞLU Y., TABAKÇILAR D., ÖZKAYA Z. A., Yamamoto-Nemoto S., TUNA İNCE E. B., ÖZEN B., TÜZÜNER T., İNCE G.  
JOURNAL OF DENTISTRY INDONESIA, vol.27, no.2, pp.77-84, 2020 (ESCI)
- IV. **Dentinin biyomimetik remineralizasyonu**  
ÖZKAYA Z. A., HİDAYET Z.  
Atatürk Üniversitesi Diş Hekimliği Fakültesi Dergisi, 2019 (Peer-Reviewed Journal)
- V. **Retrospective review of pediatric pathological oral lesions**  
Işık Z., Özkaya Z. A., Demirbaş A. E., Deniz K.  
7tepe Klinik, vol.15, pp.53-62, 2019 (Peer-Reviewed Journal)
- VI. **Erciyes Üniversitesi Diş Hekimliği Fakültesine Başvuran Hastalarda Hepatit B,C ve HIV seroprevalansı**  
GÜÇLÜ Z. A., HİDAYET Z., GÜNAY CANPOLAT D., DOĞRUEL F.  
7tepe KLİNİK, 2018 (Peer-Reviewed Journal)
- VII. **Erciyes Üniversitesi Diş Hekimliği Fakültesi'ne başvuran çocuk hastalarda Hepatit B, C ve HIV seroprevalansı**  
GÜÇLÜ Z. A., HİDAYET Z., GÜNAY CANPOLAT D., DOĞRUEL F.  
7tepe Klinik, vol.14, no.3, pp.81-84, 2018 (Peer-Reviewed Journal)
- VIII. **5 Aylık bebekte palatal pyojenik granüloma nadir bir vaka raporu (Palatal pyogenic granuloma in a 5 months old infant: a rare case report)**  
GÜÇLÜ Z. A., IŞIK Z., DEMİRBAŞ A. E.  
Atatürk Üniversitesi Diş Hekimliği Fakültesi Dergisi, vol.29, pp.103-107, 2017 (Peer-Reviewed Journal)
- IX. **The antibacterial activity and release of quaternary ammonium compounds in an orthodontic primer.**  
Özel M. B., Tüzüner T., Güçlü Z. A., Coleman N. J., Hurt A., Buruk C. K.  
ACTA ODONTOLOGICA LATINOAMERICANA : AOL, vol.30, no.3, pp.141-148, 2017 (Peer-Reviewed Journal)
- X. **Üniversal bir adezivin ER:YAG lazerle prepare edilmiş çürükten etkilenmiş dentine mikrogerilim bağlanma dayanımı**  
GÜÇLÜ Z. A., Dönmez N., Tüzüner T., Karabulut B.  
SELÇUK DENTAL JOURNAL, vol.2, no.3, pp.109-116, 2015 (Peer-Reviewed Journal)
- XI. **Ketone Utilization Disorder and Hypodontia**  
Alacam A., Guclu Z. A., Hasanoglu A.  
JOURNAL OF PEDIATRIC RESEARCH, vol.2, no.2, pp.99-101, 2015 (ESCI)

## Books & Book Chapters

- I. **Silver Nanoparticles in Dentistry**  
GÜNDEŞ N. S., TEMUR N., KORKMAZ B., ÖZKAYA Z. A., ÖÇSOY İ.  
in: Silver Nanoparticles for Drug Delivery, PRASHANT KESHERWANI, Editor, Elsevier, Londrina, pp.265-286, 2024

## Refereed Congress / Symposium Publications in Proceedings

- I. **Association between anti-vaccine and anti-topical fluoride behaviours in parents: a pilot study**  
Yıldırım B., Özkaya Z. A.  
29. Uluslararası Türk Pedodonti Derneği Kongresi, Ankara, Turkey, 12 - 15 October 2023, pp.122
- II. **Matür Daimi Avulse Dişte Geç Replantasyon Tedavisi Ve Klinik Takibi**  
Özkaya Z. A., Türkyılmaz E.  
28. Uluslararası Türk Pedodonti Derneği Kongresi, Antalya, Turkey, 6 - 09 October 2022, pp.50
- III. **In Vitro Evaluation of the Shear Bond Strength of Different Luting Cements on Zirconia Crowns in Primary Teeth**  
HİDAYET Z., ÖZKAYA Z. A.  
25. Uluslararası diş hekimleri birliği kongresi, 4 - 07 September 2019
- IV. **Reccurrence after oral rehabilitation in non-cooperative children**  
HİDAYET Z., GÜÇLÜ Z. A.  
25. international scientific congress and exhibition, İzmir, Turkey, 9 - 11 November 2018
- V. **Sotos syndrome and dental features: a case report**  
DİRECEN S., GÜÇLÜ Z. A.  
International Association of Paediatric Dentistry Regional Meeting 25th Congress of Turkish Society of Paediatric Dentistry, 12 - 14 October 2018
- VI. **Dental management of mastocytosis patient**  
KÜREM B., GÜÇLÜ Z. A.  
International Association of Paediatric Dentistry Regional Meeting 25th Congress of Turkish Society of Paediatric Dentistry, 12 - 14 October 2018
- VII. **Surgical reposition of the mature tooth after intrusion trauma and it's follow up**  
ŞEBİN E., DEMİROĞLU C., BAYINDIR Ş., GÜÇLÜ Z. A.  
International Association of Paediatric Dentistry Regional Meeting 25th Congress of Turkish Society of Paediatric Dentistry, 12 - 14 October 2018
- VIII. **Managing intruded teeth with surgical technique**  
MAHYADDİNOVA T., GÜÇLÜ Z. A.  
International Association of Paediatric Dentistry Regional Meeting 25th Congress of Turkish Society of Paediatric Dentistry, 12 - 14 October 2018
- IX. **Enamel remineralisation by arginine-calcium carbonate toothpaste**  
HARDY B. J., COLEMAN A. A., GÜÇLÜ Z. A., COLEMAN N. J.  
UKSB 2018 Annual Conference and Postgraduate Day, 16 - 17 May 2018
- X. **Enamel protection by hydroxyapatite toothpaste**  
COLEMAN A. A., HARDY B. J., GÜÇLÜ Z. A., COLEMAN N. J.  
UKSB 2018 Annual Conference and Postgraduate Day, 16 - 17 May 2018
- XI. **Satisfaction with restoration on multiple surface caries in primary teeth**  
GÜÇLÜ Z. A., HİDAYET Z.  
23. Bass Congress, 10 - 12 May 2018
- XII. **The rehabilitation of congenitally missing teeth with young patients**  
GÜÇLÜ Z. A., KÜREM B.  
International Congress on Preventive Dentistry, Erzurum, Turkey, 5 - 08 March 2018
- XIII. **5 aylık bir bebekte pyojenik granülom: bir olgu sunumu**  
GÜÇLÜ Z. A., IŞIK Z., DEMİRBAŞ A. E.  
24. Türk Pedodonti Derneği Bilimsel Kongresi, Antalya, Turkey, 19 - 22 October 2017
- XIV. **Amelogenesis imperfecta iki hastanın dental rehabilitasyonu: olgu sunumu**  
GÜÇLÜ Z. A., HİDAYET Z., ÇALIŞKAN S.  
24. Türk pedodonti derneği bilimsel kongresi, Turkey, 19 - 22 October 2017
- XV. **Pediatric oral patolojik lezyonların retrospektif değerlendirilmesi**  
IŞIK Z., GÜÇLÜ Z. A.

24. Türk Pedodonti Derneği Bilimsel Kongresi, Turkey, 19 - 22 October 2017
- XVI. **In Vitro Bioactivity and Setting Times of White Portland Cement Combined with Different Radio Pacifying Agents**  
COLEMAN N. J., HANARASINGHE R., Guclu Z. A., BOOTH S. E.  
2nd International Conference on Materials Science and Nanotechnology (ICMSNT) / 2nd International Symposium on Material Science and Technology (ISMST), Auckland, New Zealand, 19 - 22 April 2017, vol.109
- XVII. **Impact of Er YAG laser ablation on the interfacial properties of a hydrophilic fissure sealant**  
GÜÇLÜ Z. A., COLEMAN N. J., HURT A.  
10th World Biomaterial Congress, 17 - 22 May 2016, vol.4
- XVIII. **Oligodontia with systemic disease**  
GÜÇLÜ Z. A., ALAÇAM A.  
25.th International Association of pediatric dentistry, 4 - 07 June 2015
- XIX. **The antibacterial activity and release of quaternary ammonium compounds in orthodontic adhesive**  
ÖZEL M. B., TÜZÜNER T., GÜÇLÜ Z. A., COLEMAN N. J., HURT A., BURUK C. K.  
8th International Congress of Mediterranean Societies of Pediatric Dentistry 21st Congress of Turkish Society of Pediatric Dentistry., Turkey, 13 - 15 November 2014
- XX. **Antibacterial activity of resin modified and high viscosity glass ionomer cements containing chlorhexidine diacetate/cetrimide mixtures against streptococcus mutans**  
GÜÇLÜ Z. A., TÜZÜNER T., ÖZNURHAN F., BAYGIN Ö., ALTINTEPE İ., BURUK C. K.  
8th International Congress of Mediterranean Societies of Pediatric Dentistry 21st Congress of Turkish Society of Pediatric Dentistry., İstanbul, Turkey, 13 - 15 November 2014, pp.51
- XXI. **Regenerative endodontic treatment for necrotic immature permanent teeth: report of 8 cases**  
GÜÇLÜ Z. A., SARI M. Y.  
International Association of Paediatric Dentistry Regional Meeting 25th Congress of Turkish Society of Paediatric Dentistry, 12 - 14 October 2018
- XXII. **Microleakage of hydrophilic sealant after different enamel etching techniques**  
GÜÇLÜ Z. A., DÖNMEZ N., TÜZÜNER T., ODABAŞ M. E.  
12 th European Academy of Pediatric Dentistry Congress, 5 - 08 June 2014
- XXIII. **The effect of Er-Yag laser treatment on microtensile bond strength of caries affected dentin in vitro: preliminary study**  
GÜÇLÜ Z. A., DÖNMEZ N., TÜZÜNER T., KARABULUT B.  
19th BaSS Congress, 24 - 27 April 2014
- XXIV. **The effect of different remineralisation agents**  
GÜÇLÜ Z. A.  
Makedonya Pediatrik Diş hekimliği Kongresi, Scopje-Üsküp, Macedonia, 17 - 20 October 2013
- XXV. **Microleakage of self adhering material in primary teeth after ART**  
GÜÇLÜ Z. A., DÖNMEZ N., TÜZÜNER T., ÖZALP Ş.  
FDI World Dental Congress, 28 - 31 August 2013, vol.63, pp.56
- XXVI. **Molar insizör hipomineralizasyonu olgu sunumu: çocuk hastada klinik yaklaşım**  
GÜÇLÜ Z. A., ALAÇAM A.  
19. TÜRK PEDODONTİ DERNEĞİ BİLİMSEL KONGRESİ, Turkey, 4 October - 07 June 2012
- XXVII. **The effectiveness of CPP ACP in the treatment of white spot lesions**  
GÜÇLÜ Z. A., ALAÇAM A.  
7th European Academy of Paediatric Dentistry Interim Seminar and Workshop and 18. Turkish Society of Pediatric Dentistry Congress, 31 March - 02 April 2011
- XXVIII. **Ketone utilization disorder and hypodontia**  
GÜÇLÜ Z. A., ALAÇAM A., HASANOĞLU A.  
22nd Congress of the International Association of Paediatric Dentistry, 17 - 20 June 2009

## Supported Projects

ÖZKAYA Z. A., GÜNDEŞ N. S., Project Supported by Higher Education Institutions, Klinik Şartlarda Fotoredüksiyon ile İn Situ, Hızlı ve Stabil Gümüş Nanopartikül Sentezi ve Dış Hekimliği Uygulamaları, 2022 - Continues

ÖZKAYA Z. A., YILDIRIM B., Project Supported by Higher Education Institutions, İrrigasyon Solüsyonlarının ve Gümüş Nanopartiküllerinin (Ag NP) Dış Çürüğündeki Katepsin B Enzimine Etkisi, 2022 - Continues

Özkaya Z. A., Coleman N. J., Universities of Other Countries Supported Project, The role of fluoride ions in the microbiological properties of glass-ionomer cements, 2024 - 2025

Özkaya Z. A., Coleman N. J., Universities of Other Countries Supported Project, Novel mechanical testing of conventional glass-ionomer cements, 2023 - 2024

Yıldırım B., Özkaya Z. A., TUBITAK Project, Katepsin B Enziminin Çürük Tespitinde Biyosensör Olarak Kullanımının ve Klorheksidin Diglukonat Sentezlenen Ag Np ile İnhibisyonunun İncelenmesi, 2023 - 2024

ÖZKAYA Z. A., MAHYADDINOVA T., Project Supported by Higher Education Institutions, Farklı termal döngü uygulamaları ile hızlandırılmış yaşlandırma tekniğinin restorasyonların mikrosızıntısı üzerine ekisinin değerlendirilmesi, 2021 - 2022

ÖZKAYA Z. A., HİDAYET Z., Project Supported by Higher Education Institutions, Süt dişlerinde farklı yapıştırma materyalleriyle uygulanan zirkonyum oksit kronların bağlanma dayanımının in vitro incelenmesi, 2018 - 2019

ÖZKAYA Z. A., DOĞAN S., IŞIK Z., ÇALIŞKAN S., Project Supported by Higher Education Institutions, Süt Dişlerinde Prefabrike Estetik Kronların Klinik/Radyolojik Başarı ve Veli Memnuniyeti Değerlendirilmesi, 2017 - 2018

Özkaya Z. A., Coleman N. J., Universities of Other Countries Supported Project, Remineralisation of challenged dental tissues, 2016 - 2016

Özkaya Z. A., Hanarasinghe R., Booth S. E., Coleman N. J., Universities of Other Countries Supported Project, In vitro bioactivity and setting times of white portland cement combined with different radio pacifying agents, 2015 - 2015

Özkaya Z. A., Coleman N. J., Other International Funding Programs, An in vitro comparison of the enamel remineralisation potential of bioactive glass, hydroxyapatite and CPP-ACP, 2013 - 2013

## Activities in Scientific Journals

Dentistry Advanced Research, Committee Member, 2016 - Continues

## Scientific Refereeing

BMC ORAL HEALTH, SCI Journal, December 2023

BMC ORAL HEALTH, SCI Journal, December 2023

PROSTHESIS, SCI Journal, April 2023

BioMed Research International, SCI Journal, August 2016

## Tasks In Event Organizations

Özkaya Z. A., 10th International Conference on Materials and Nanotechnology for Next Generation, Scientific Congress, Kayseri, Turkey, Eylül 2023

Özkaya Z. A., Erciyes Üniversitesi 2. Uluslararası Dış Hekimliği Kongresi, Scientific Congress, Turkey, Şubat 2023

## Metrics

Publication: 53

Citation (WoS): 112

Citation (Scopus): 112

H-Index (WoS): 6

H-Index (Scopus): 7

### **Congress and Symposium Activities**

Biomatsen International, Attendee, İstanbul, Turkey, 2016

10th World Biomaterial Congress, Attendee, Montréal, Canada, 2016

### **Non Academic Experience**

GREENWICH UNIVERSITY

SAGLIK BAKANLIGI