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Education

Doctorate, Marmara University, Sağlık Bilimleri Enstitüsü, Diş Hastalıkları Ve Tedavisi (Bütünleşik Dr), Turkey 2006 - 2011

Undergraduate, Marmara University, Diş Hekimliği Fakültesi, Diş Hekimliği Pr. (İngilizce), Turkey 1999 - 2005

Research Areas

Health Sciences, Engineering and Technology

Academic Positions

Associate Professor, Istanbul Medipol University, Diş Hekimliği Fakültesi, Klinik Bilimler Bölümü, 2012 - Continues

Courses

Undergraduate

Endodonti, Undergraduate, 2017 - 2018, 2014 - 2015, 2013 - 2014

Associate Degree

Ağız ve Diş Sağlığı Klinik Uygulama, Associate Degree, 2016 - 2017

Ağız ve Diş Sağlığı Uygulama (i.Ö), Associate Degree, 2016 - 2017

Journal articles indexed in SCI, SSCI, and AHCI

- Comparison of electronic apex locator and simultaneous working length detection methods with radiological method in terms of postoperative pain**
Guzel E., Uyan M., Erşahan Eroğlu Ş., Gündoğar M., Ozelik F.
BMC ORAL HEALTH, vol.24, no.1, 2024 (SCI-Expanded)
- Influence of endodontic access cavity design on mechanical properties of a first mandibular premolar tooth: a finite element analysis study**
Özyürek T., Uslu G., Arıcan B., GÜNDOĞAR M., Nekoofar M. H., Dummer P. M. H.

Clinical Oral Investigations, vol.28, no.8, 2024 (SCI-Expanded)

- III. **Is SWEEPS better than PUI in reducing intracanal bacteria and inflammation in cases of apical periodontitis?**
Hepsenoglu Y., Ersahan Ş., Erkan E., Gündoğar M., Ozcelik F.
LASERS IN MEDICAL SCIENCE, vol.39, no.1, pp.182, 2024 (SCI-Expanded)
- IV. **Comparison of the removal of intracanal medicaments used in regenerative endodontics from root canal system using needle, ultrasonic, sonic, and laser-activated irrigation systems**
Usta S., Erdem B., Gündoğar M.
LASERS IN MEDICAL SCIENCE, vol.39, no.1, 2024 (SCI-Expanded)
- V. **Assessment of apical extrusion in regenerative endodontics: a comparative study of different irrigation methods using three-dimensional immature tooth models**
Abat V. H., Bayrak G. D., GÜNDOĞAR M.
Odontology, 2024 (SCI-Expanded)
- VI. **Regulatory issues related to the use of sodium hypochlorite solutions in endodontics**
Peters O. A., Ballal N. V., Abe S., De-Deus G., GÜNDOĞAR M., Camilleri J., Chen Z., Zehnder M.
International Endodontic Journal, 2024 (SCI-Expanded)
- VII. **Investigation of the effectiveness of sonic, ultrasonic and new laser-assisted irrigation activation methods on smear removal and tubular penetration**
Uslu G., GÜNDOĞAR M., ÜNGÖR M., Özyürek T., ERKAN E., KESKİN N. B.
Lasers in Medical Science, vol.38, no.1, 2023 (SCI-Expanded)
- VIII. **Evaluation of shaping ability of different glide path instruments: a micro-computed tomography study**
Yeniçeri Özata M., Falakaloğlu S., Keleş A., Adıgüzel Ö., GÜNDOĞAR M.
BMC Oral Health, vol.23, no.1, 2023 (SCI-Expanded)
- IX. **Efficacy of different irrigant activation devices in removing dentin debris from an artificial isthmus connecting curved canals**
Plotino G., Özyürek T., GÜNDOĞAR M., Uslu G., Pedullà E., Careddu R., Franco V.
Australian Endodontic Journal, vol.49, no.S1, pp.353-358, 2023 (SCI-Expanded)
- X. **Shaping ability of different NiTi rotary systems during the preparation of printed mandibular molars**
Falakaloğlu S., Silva E. J. N. L., Yeniçeri Özata M., GÜNDOĞAR M.
Australian Endodontic Journal, vol.49, no.2, pp.256-261, 2023 (SCI-Expanded)
- XI. **Shaping ability of novel nickel-titanium systems in printed primary molars**
Gucyetmez Topal B., Falakaloglu S., Silva E., GÜNDOĞAR M., İRİBOZ E.
International Journal of Paediatric Dentistry, vol.33, no.2, pp.168-177, 2023 (SCI-Expanded)
- XII. **Mechanical Properties of the New Generation RACE EVO and R-Motion Nickel-Titanium Instruments**
BAŞTÜRK F. B., Özyürek T., Uslu G., GÜNDOĞAR M.
Materials, vol.15, no.9, 2022 (SCI-Expanded)
- XIII. **Dental enumeration and multiple treatment detection on panoramic X-rays using deep learning**
Yüksel A. E., Gültekin S., Simsar E., Özdemir Ş. D., GÜNDOĞAR M., Tokgöz S. B., Hamamcı İ. E.
Scientific Reports, vol.11, no.1, 2021 (SCI-Expanded)
- XIV. **Comparison of cyclic fatigue resistance and bending properties of two reciprocating nickel-titanium glide path files**
Özyürek T., Uslu G., GÜNDOĞAR M., Yılmaz K., Grande N., Plotino G.
International Endodontic Journal, vol.51, no.9, pp.1047-1052, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **POSTOPERATIVE PAIN FOLLOWING SINGLE VISIT ROOT CANAL TREATMENT WITH RECIPROC BLUE AND HYFLEX EDM INSTRUMENTATION; A PROSPECTIVE RANDOMIZED CLINICAL TRIAL**
GENÇOĞLU N., KARATEKİN A. Ö., GÜNDOĞAR M.

Meandros Medical And Dental Journal, vol.25, no.1, pp.78-84, 2024 (ESCI)

- II. **Efficacy of laser-activated irrigation with the SWEEPS modality in removing calcium hydroxide from simulated internal resorption cavities**
ERKAN E., AYDIN R. N., FALAKALOĞLU S., YENİÇERİ ÖZATA M., GÜNDOĞAR M.
International Dental Research, vol.13, no.2, pp.48-53, 2023 (Peer-Reviewed Journal)
- III. **Influence of access cavity design on calcium hydroxide removal using different cleaning protocols: a confocal laser scanning microscopy study**
Falakaloğlu S., Yeniçeri Özata M., GÜNEŞ B., Silva E. J. N. L., GÜNDOĞAR M., Topal B. G.
Restorative Dentistry and Endodontics, vol.48, no.3, 2023 (Scopus)
- IV. **Is it safe to use YouTube™ to learn about root canal preparation? Analysis of content and quality of videos**
Falakaloğlu S., Özata M. Y., Karaağaç B., GÜNDOĞAR M.
Giornale Italiano di Endodonzia, vol.37, no.1, pp.37-45, 2023 (ESCI)
- V. **Evaluation of Root Canal Configuration of Permanent Maxillary Molar Teeth in a Turkish Subpopulation: A Cone-Beam Computed Tomographic Study**
ERKAN E., OLCAY K., EYÜBOĞLU T. F., ŞENER E., GÜNDOĞAR M.
Online Türk Sağlık Bilimleri Dergisi, vol.8, no.1, pp.98-95, 2023 (Peer-Reviewed Journal)
- VI. **Assessment of the Canal Anatomy of the Mandibular Molars in a Group of Turkish Patients: A Cone-Beam Computed Tomography Study**
ERKAN E., OLCAY K., EYÜBOĞLU T. F., ŞENER E., GÜNDOĞAR M.
Van Sağlık Bilimleri Dergisi, vol.16, no.1, pp.44-52, 2023 (Peer-Reviewed Journal)
- VII. **Impact of COVID-19 Pandemic on Continuing Professional Development of Endodontists: A Comprehensive Survey Study**
USLU G., ÖZYÜREK T., Kayahan M., GÜNDOĞAR M., KESKİN N. B.
Türkiye Klinikleri Diş Hekimliği Bilimleri Dergisi, vol.28, no.3, pp.624-632, 2022 (Peer-Reviewed Journal)
- VIII. **Pull-out Retentive Resistance of Fiber Posts Restored with Different Core Materials**
TOPKARA C., YILMAZ K., GÜNDOĞAR M., USLU G., ÖZYÜREK T.
Meandros Medical And Dental Journal, vol.23, no.2, pp.182-187, 2022 (Peer-Reviewed Journal)
- IX. **Histological Assessment of Debris in Isthmuses after Using Rotary and Reciprocating Single-File Instruments**
GÜNDOĞAR M., ÖZYÜREK T., Plotino G., Gündoğar Ö., BEKTAŞ S., ÖZYÜREK H., USLU G., SEZGİN G. P., ERKAN E.
Journal of Dentistry and Oral Biology, vol.7, no.1, pp.1189, 2022 (Peer-Reviewed Journal)
- X. **Evaluation of the push out of bond strength of different bioceramic root canal sealers with different obturation techniques**
Falakaloğlu S., GÜNDOĞAR M.
Giornale Italiano di Endodonzia, vol.36, no.1, pp.151-157, 2022 (ESCI)
- XI. **Comparison of Torsional Resistance of Reciproc®, WaveOne™ and One Shape® Nickel-Titanium Instruments**
SEZGİN G. P., GÜNDOĞAR M.
Türkiye Klinikleri Diş Hekimliği Bilimleri Dergisi, vol.26, no.1, pp.26-30, 2020 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Diffusion-Based Hierarchical Multi-label Object Detection to Analyze Panoramic Dental X-Rays**
Hamamci I. E., Er S., Simsar E., Sekuboyina A., GÜNDOĞAR M., Stadlinger B., Mehl A., Menze B.
26th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2023, Vancouver, Canada, 8 - 12 October 2023, vol.14225 LNCS, pp.389-399, (Full Text)
- II. **Evaluation of Torsional Resistance of Single-File Nickel-Titanium Instruments**
GÜNDOĞAR M., USLU G., ÖZYÜREK T.
GREATIST 2019 Uluslararası Diş Hekimliği Kongresi, 25 - 27 October 2019, (Summary Text)

- III. **Postoperative Pain in Mandibular Premolar Teeth with Symptomatic Irreversible Pulpitis After Different Irrigation Agitation Techniques:A Randomized Clinical Trial**
GÜNDOĞAR M., SEZGİN G. P., SÖNMEZ KAPLAN S., ÖZYÜREK H., staffoli s., USLU G., ÖZYÜREK T.
The 20th Scientific Congress of Asian Pacific Endodontic Confederation & The 14th International Congress of Turkish Endodontic Society, 24 - 27 April 2019, pp.119, (Summary Text)
- IV. **DENTINAL MICROCRACK FORMATION AFTER USING NEW RECIPROCATING AND ROTARY NICKEL-TITANIUM INSTRUMENTS:A MICRO-COMPUTED TOMOGRAPHIC EVALUATION**
ÖZYÜREK T., GÜNDOĞAR M., Staffoli S., Plotino G.
III SIE INTERNATIONAL CONGRESS 2018 ENDODONTICS:CLINICAL SOLUTIONS, 8 - 10 November 2018, (Summary Text)
- V. **Farklı NiTi Eğeler ve Kinematikler ile Kök Kanal Preparasyonu Sırasında Dentin Kırığı Oluşumu**
ERKAN E., OLCAY K., EYÜBOĞLU T. F., GÜNDOĞAR M.
Türk Dişhekimleri Birliği 24. Uluslararası Dişhekimliği Kongresi, Ankara, Turkey, 27 - 30 September 2018, vol.24, pp.41, (Summary Text)
- VI. **Isıl İşlem Görmüş Farklı Nikel Titanyum Döner Eğelerin Mekanik Özelliklerinin Karşılaştırılması**
GÜNDOĞAR M.
TDB 24. Uluslararası Diş Hekimliği Kongresi, 27 - 30 September 2018, (Summary Text)
- VII. **Dentinal Crack Formation during Root Canal Preparation with Different NiTi Instruments and Kinematics**
ERKAN E., OLCAY K., EYÜBOĞLU T. F., GÜNDOĞAR M.
Türk Diş Hekimleri Birliği 24. Uluslararası Diş Hekimliği Kongresi, Ankara, Turkey, 27 - 30 September 2018, vol.24, pp.41, (Summary Text)
- VIII. **Comparison of Mechanical Properties of Reciproc, Reciproc Blue and T-Endo MUST Nickel-Titanium Reciprocating Instruments**
ÖZYÜREK T., GÜNDOĞAR M.
The 11th IFEA World Endodontic Congress 2018, 4 - 07 September 2018, (Summary Text)
- IX. **Latest Trends in Endodontics:Rotary Instrumentation and Irrigation**
GÜNDOĞAR M.
15th Makkah International Dental Conference, 27 - 29 March 2018, (Summary Text)
- X. **Latest Trends in Endodontics**
GÜNDOĞAR M., ÖZYÜREK T.
22nd UAE INTERNATIONAL DENTAL CONFERENCE, 6 - 08 February 2018, (Summary Text)
- XI. **Latest Trends in Endodontics:Obturation,Irrigation,Instrumentation**
GÜNDOĞAR M.
The 25th Jordanian International Dental Conference, 3 - 05 October 2017, (Summary Text)
- XII. **The effect of endodontic sealers on the bond strength of a fiber post system**
GENÇOĞLU N., GÜNDOĞAR M.
8 th World Endodontic Congress, 6 - 09 October 2011, (Summary Text)
- XIII. **Effect of different root canal sealers on the bond strength of different fiber post system**
GENÇOĞLU N., GÜNDOĞAR M.
15th BIENNIAL CONGRESS OF THE EUROPEAN SOCIETY OF ENDODONTOLOGY, 14 - 17 September 2011, (Summary Text)
- XIV. **Cleaning Effect of Ultrasonic Debridement on isthmus in mandibular molars**
GENÇOĞLU N., GÜNDOĞAR M.
PEF IADR London, 10 - 12 September 2008, (Summary Text)