

## Lect. Osman KOÇ

### Personal Information

**Office Phone:** [+90 212 383 2994](tel:+902123832994)

**Email:** [osmankoc@yildiz.edu.tr](mailto:osmankoc@yildiz.edu.tr)

**Web:** <https://avesis.yildiz.edu.tr/osmankoc>

**Address:** Yildiz Technical University Mechanical Engineering Department, Mechanical Faculty Office: A Bloc, 411 Barbaros Boulevard, 34349, Yildiz / İstanbul

### International Researcher IDs

ScholarID: 0xmDzcsAAAAJ

ORCID: 0000-0002-2682-8282

Yoksis Researcher ID: 147490

### Research Areas

Biomedical Engineering, Computer Aided Design and Manufacturing, Finite Element Methods, Biomechanics, Engineering and Technology

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

- I. **Effects of different expansion appliances and surgical incisions on maxillary expansion: A finite element analysis**  
Ateş E. M., Pamukçu H., KOÇ O., Altıparmak N.  
Journal of Stomatology, Oral and Maxillofacial Surgery, vol.125, no.5, 2024 (SCI-Expanded)
- II. **Effects of different distractor positions on the formation of expansion, stress and displacement patterns in surgically assisted rapid maxillary expansion without pterygomaxillary disjunction: a finite element analysis study**  
Koç O., Bolat Gümüş E.  
Computer Methods in Biomechanics and Biomedical Engineering, vol.27, no.1, pp.56-66, 2024 (SCI-Expanded)
- III. **Comparison of 3 different bone-borne type expansion appliances used in surgically-assisted rapid palatal expansion: A finite element analysis**  
Koç O., Pamukçu H., Atakan Kocabalkan A.  
AMERICAN JOURNAL OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, vol.1, pp.1-15, 2022 (SCI-Expanded)
- IV. **Surgically assisted rapid palatal expansion: is the pterygomaxillary disjunction necessary? A finite element study**  
Koç O., Jacob H. B.  
Seminars in Orthodontics, vol.28, no.3, pp.227-242, 2022 (SCI-Expanded)
- V. **Influence of fiber insertion and different material type on stress distribution in endocrown restorations: a 3D-FEA study**  
Yildirim G., Demir C., Guven M. C., Koç O., Dalkılıç E.  
COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING, vol.25, no.13, pp.1509-1519, 2022 (SCI-Expanded)

### Articles Published in Other Journals

## ARTICLES PUBLISHED IN OTHER JOURNALS

- I. **Effect of different palatal expanders with miniscrews in surgically assisted rapid palatal expansion: A non-linear finite element analysis**  
Koç O., Koç N., Jacob H. B.  
Dental Press Journal of Orthodontics, vol.29, no.1, 2024 (Scopus)
- II. **Fren Balata Sisteminde Sürtünme Sonucu Oluşan Isı Transferi Ve Termal Gerilme Analizi**  
Koç O., Taşgetiren S., Mutlu İ.  
Teknolojik Araştırmalar Dergisi, vol.1, no.2, pp.9-20, 2009 (Peer-Reviewed Journal)

## Supported Projects

KOÇ O., Endüstride Kullanılan Yüksek Güçlü Elektrik Motorlarının Arızalarını Önlemeye Yönelik Yenilikçi Bir Soğutma Sistemi Tasarımı, 2012 - 2013

KOÇ O., TUBITAK Project, Bor minareleri katkılı otomotiv fren balatası üretimi ve frenleme karakteristiğinin incelenmesi, 2007 - 2008

## Metrics

Publication: 7

Citation (WoS): 1

Citation (Scopus): 6

H-Index (WoS): 1

H-Index (Scopus): 2

## Non Academic Experience

Trakya Üniversitesi