

Lect. Osman KOÇ

Personal Information

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

Email: 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

Publons / Web Of Science ResearcherID: AAZ-8998-2020

ScopusID: 57393142100

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. **Comparison of the biomechanical effect of distal implants placed at different angles in the all-on-four technique: A nonlinear finite element analysis.**
Unuvar Y., Calis A., Koc O.
Journal of stomatology, oral and maxillofacial surgery, pp.102157, 2024 (SCI-Expanded)
- II. **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)
- III. **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)
- IV. **Comparison of 3 different bone-borne type expansion appliances used in surgically-assisted rapid palatal expansion: A finite element analysis**
Koç O., Pamukçu H., Kocabalkan A. A.
AMERICAN JOURNAL OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, vol.1, pp.1-15, 2022 (SCI-Expanded)
- V. **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)
- VI. **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

- 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)

Papers Published in Refereed Scientific Meetings

- I. **EVALUATION OF THE EFFECTS OF 2 DIFFERENT MINI-SCREW-ASSISTED MAXILLARY EXPANSION APPLIANCES IN UNILATERAL CROSSBITE CASES BY FINITE ELEMENT ANALYSIS**
Baştaş M., Koç O., Aras A.
XIX. Uluslararası Türk Ortodonti Derneği Kongresi, Antalya, Turkey, 2 - 06 November 2024, pp.383-384
- II. **Comparison of Stress Distribution Around Sloped İmplant With Finite Element Analysis**
Ünüvar Y., Çalış A., Koç O.
Türk Oral ve Maksillofasiyal Cerrahi Derneği (TAOMS'23) 30. ULUSLARARASI BİLİMSEL KONGRESİ, Antalya, Turkey, 17 - 21 November 2023, pp.64

Supported Projects

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

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

Peer Reviews in Scientific Publications

PROGRESS IN ORTHODONTICS, National Scientific Refreed Journal, February 2024

Sinusitis, National Scientific Refreed Journal, February 2024

ORTHODONTICS AND CRANIOFACIAL RESEARCH, National Scientific Refreed Journal, February 2024

BMC ORAL HEALTH, National Scientific Refreed Journal, February 2024

AMERICAN JOURNAL OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, National Scientific Refreed Journal, February 2024

PEERJ, National Scientific Refreed Journal, February 2024

JOURNAL OF COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING: IMAGING AND VISUALIZATION, National Scientific Refreed Journal, February 2024

Metrics

Publication: 10

Citation (WoS): 1

Citation (Scopus): 23

H-Index (WoS): 1

H-Index (Scopus): 3

Non Academic Experience

Trakya Üniversitesi, Öğretim görevlisi