

## Doç. Dr. SEMA MURAT

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAS-2104-2020

Yoksis Araştırmacı ID: 32737

### Eğitim Bilgileri

Doktora, Ankara Üniversitesi, Sağlık Bilimleri Enstitüsü, Protetik Diş Tedavisi (Dr), Türkiye 2006 - 2012

Lisans, Ankara Üniversitesi, Diş Hekimliği Fakültesi, Türkiye 1999 - 2005

### Yaptığı Tezler

Doktora, Hipoalerjenik protez kaide materyallerinin yüzey özelliklerinin ve bakteri tutunumlarının in-vitro değerlendirilmesi, Ankara Üniversitesi, Sağlık Bilimleri Enstitüsü, Protetik Diş Tedavisi (Dr), 2012

### Araştırma Alanları

Sağlık Bilimleri

### Akademik Unvanlar / Görevler

Doç. Dr., Ankara Üniversitesi, Diş Hekimliği Fakültesi, Klinik Bilimler Bölümü, 2019 - Devam Ediyor

Araştırma Görevlisi, Ankara Üniversitesi, Diş Hekimliği Fakültesi, Klinik Bilimler Bölümü, 2017 - 2022

Araştırma Görevlisi, Ankara Üniversitesi, Diş Hekimliği Fakültesi, Klinik Bilimler Bölümü, 2006 - 2012

### Verdiği Dersler

Tam protezlerde muayene ve ağız hazırlığı, Lisans, 2021 - 2022

INTRODUCTION TO REMOVABLE PROSTHODONTICS , Lisans, 2021 - 2022

Tam immediat protezler, Lisans, 2021 - 2022

INTRODUCTION TO DENTAL OCCLUSION, Lisans, 2021 - 2022

Çene Yüz Protezi , Lisans, 2021 - 2022

PROTEZ, Ön Lisans, 2021 - 2022

Laboratuvar Bilgisi, Ön Lisans, 2018 - 2019

Protetik Diş Tedavisinde Klinik Yardımcılığı-I, Ön Lisans, 2018 - 2019

Protetik Diş Tedavisinde Klinik Yardımcılığı I, Ön Lisans, 2018 - 2019

ORAL SİMÜLASYON T, Lisans, 2015 - 2016

ORAL SİMÜLASTON-II-2P, Lisans, 2015 - 2016  
ORAL SİMÜLASYON-II-2T, Lisans, 2015 - 2016, 2014 - 2015  
ORAL SİMÜLASYON-P, Lisans, 2015 - 2016, 2014 - 2015  
ORAL SİMÜLASYON-T, Lisans, 2014 - 2015  
ORAL SİMÜLASYON-II-2P, Lisans, 2014 - 2015  
HAREKETLİ PROTEZLER- III, Ön Lisans, 2013 - 2014  
MADDE VE ARAÇ BİLGİSİ-II, Ön Lisans, 2012 - 2013  
SABİT PROTEZLER-II, Ön Lisans, 2012 - 2013  
PROTETİK DIŞ TEDAVİSİNDE DIŞ HEKİMİ KLİNİK YARDIMCILIĞI, Ön Lisans, 2012 - 2013

## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. **The Accuracy of Intraoral Scanners in Maxillary Defects with Different Model Variations †**  
MURAT S., BATAK B., Aydoğ Ö., Öztürk C.  
Diagnostics, cilt.14, sa.21, 2024 (SCI-Expanded)
- II. **Effects of 16% Carbamide Peroxide on Optical Properties of Thermally Aged Monolithic CAD-CAM Glass Ceramics with Different Surface Treatments**  
MURAT S., BATAK B., Yılmaz D., Öztürk C.  
Operative dentistry, cilt.48, sa.2, ss.176-185, 2023 (SCI-Expanded)
- III. **Effects of magnetic resonance imaging on the microleakage of five restorative materials: An in vitro study**  
YILMAZ F., MURAT S., BALTAÇIOĞLU İ. H., Ayyıldız S., KAMBUROĞLU K.  
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY, cilt.132, sa.2, ss.239-246, 2021 (SCI-Expanded)
- IV. **Fabrication of a 3-dimensionally printed definitive cast for an obturator prosthesis by merging intraoral scan image with cone beam computed tomography data: A clinical report**  
MURAT S., BATAK B.  
JOURNAL OF PROSTHETIC DENTISTRY, cilt.126, sa.2, 2021 (SCI-Expanded)
- V. **Measurement of activity concentrations of U-238, Ra-226, Th-232 and K-40 in different dental ceramic materials and assessment of dose given to oral mucosa**  
DURKAN R., GÜRBÜZ A., MURAT S., YÜCEL H.  
RADIATION PHYSICS AND CHEMISTRY, cilt.168, 2020 (SCI-Expanded)
- VI. **In Vitro Evaluation of Adhesion of Candida albicans on CAD/CAM PMMA-Based Polymers**  
MURAT S., Alp G., Alatalı C., UZUN M.  
JOURNAL OF PROSTHODONTICS-IMPLANT ESTHETIC AND RECONSTRUCTIVE DENTISTRY, cilt.28, sa.2, 2019 (SCI-Expanded)
- VII. **Comparison of Flexural Strength of Different CAD/CAM PMMA-Based Polymers**  
Alp G., MURAT S., Yılmaz B.  
JOURNAL OF PROSTHODONTICS-IMPLANT ESTHETIC AND RECONSTRUCTIVE DENTISTRY, cilt.28, sa.2, 2019 (SCI-Expanded)
- VIII. **Evaluation of flexural strength and surface properties of prepolymerized CAD/CAM PMMA-based polymers used for digital 3D complete dentures**  
Arslan M., MURAT S., Alp G., Zaimoglu A.  
INTERNATIONAL JOURNAL OF COMPUTERIZED DENTISTRY, cilt.21, sa.1, ss.31-40, 2018 (SCI-Expanded)
- IX. **Fabrication of obturator prosthesis by fusing CBCT and digital impression data A case report**  
MURAT S., Gurbuz A., Kamburoglu K.  
INTERNATIONAL JOURNAL OF COMPUTERIZED DENTISTRY, cilt.21, sa.4, ss.335-344, 2018 (SCI-Expanded)
- X. **Fabrication of obturator prosthesis by fusing CBCT and digital impression data Fertigung einer Obturatorprothese anhand kombinierter DVT- und digitaler Abformdaten**  
MURAT S., GÜRBÜZ A., KAMBUROĞLU K.

International Journal of Computerized Dentistry, cilt.21, sa.4, ss.335-344, 2018 (SCI-Expanded)

- XI. **Nerve Damage Assessment Following Implant Placement in Human Cadaver Jaws: An Ex Vivo Comparative Study**  
MURAT S., KAMBUROĞLU K., Kilic C., Ozen T., GÜRBÜZ A.  
JOURNAL OF ORAL IMPLANTOLOGY, cilt.40, sa.1, ss.77-84, 2014 (SCI-Expanded)
- XII. **Radiofrequency heating and magnetic field interactions of fixed partial dentures during 3-tesla magnetic resonance imaging**  
Ayyildiz S., KAMBUROĞLU K., Sipahi C., MURAT S., Gorgulu S., Piskin B.  
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY, cilt.116, sa.5, ss.640-647, 2013 (SCI-Expanded)
- XIII. **Rehabilitation of a Patient With Mandibular Resection Using Osteointegrated Implants: A Case Report**  
MURAT S., GÜRBÜZ A., KAMBUROĞLU K.  
JOURNAL OF ORAL IMPLANTOLOGY, cilt.39, sa.5, ss.609-614, 2013 (SCI-Expanded)
- XIV. **Radiographic detection of artificially created horizontal root fracture using different cone beam CT units with small fields of view**  
Kamburoglu K., Onder B., MURAT S., Avsever H., Yuksel S., Paksoy C. S.  
DENTOMAXILLOFACIAL RADIOLOGY, cilt.42, sa.4, 2013 (SCI-Expanded)
- XV. **Visibility of Artificial Buccal Recurrent Caries Under Restorations Using Different Radiographic Techniques**  
MURAT S., Kamburoglu K., Isayev A., Kursun S., Yuksel S.  
OPERATIVE DENTISTRY, cilt.38, sa.2, ss.197-207, 2013 (SCI-Expanded)
- XVI. **Accuracy of a Newly Developed Cone-Beam Computerized Tomography-Aided Surgical Guidance System for Dental Implant Placement: An Ex Vivo Study**  
MURAT S., KAMBUROĞLU K., Ozen T.  
JOURNAL OF ORAL IMPLANTOLOGY, cilt.38, sa.6, ss.706-712, 2012 (SCI-Expanded)
- XVII. **Proximal caries detection accuracy using intraoral bitewing radiography, extraoral bitewing radiography and panoramic radiography**  
Kamburoglu K., Kolsuz E., MURAT S., Yuksel S., Ozen T.  
DENTOMAXILLOFACIAL RADIOLOGY, cilt.41, sa.6, ss.450-459, 2012 (SCI-Expanded)
- XVIII. **Prosthetic Rehabilitation of a Patient With Bilateral Cleft Lip and Palate Using Osseointegrated Implants and Extracoronary Resilient Attachments: A Case Report**  
MURAT S., GÜRBÜZ A., Genc F.  
CLEFT PALATE-CRANIOFACIAL JOURNAL, cilt.48, sa.3, ss.342-347, 2011 (SCI-Expanded)
- XIX. **Occlusal caries detection by using a cone-beam CT with different voxel resolutions and a digital intraoral sensor**  
KAMBUROĞLU K., MURAT S., Yuksel S. P., Cebeci A. R. I., PAKSOY C. S.  
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY AND ENDODONTOLOGY, cilt.109, sa.5, 2010 (SCI-Expanded)
- XX. **The effects of digital image enhancement on the detection of vertical root fracture**  
KAMBUROĞLU K., MURAT S., Pehlivan S. Y.  
DENTAL TRAUMATOLOGY, cilt.26, sa.1, ss.47-51, 2010 (SCI-Expanded)
- XXI. **Detection of vertical root fracture using cone-beam computerized tomography: an in vitro assessment**  
KAMBUROĞLU K., MURAT S., Yuksel S. P., Cebeci A. R. I., Horasan S.  
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY AND ENDODONTOLOGY, cilt.109, sa.2, 2010 (SCI-Expanded)

## Diğer Dergilerde Yayınlanan Makaleler

- I. **Üç boyutlu yazıcıların protetik uygulamalarda kullanımı. Gülşahı A, editör. Dentomaksillofasiyal Radyolojide Üç Boyutlu Görüntülemeye Üç Boyutlu Yazıcılara.**  
Murat S.  
Türkiye Klinikleri Diş Hekimliği Bilimleri Dergisi, cilt.1, ss.36-45, 2022 (Hakemli Dergi)
- II. **Evaluation of peel bond strength of a soft silicone liner to pre-polymerized CAD-CAM polymers used for digital complete dentures**  
BATAK B., MURAT S.  
Clinical Dentistry and Research, cilt.44, sa.1, ss.21-29, 2020 (Hakemli Dergi)
- III. **Assessment of the Accuracy of Obturator Bulbs that are Produced by Using Cone Beam Computed Tomography and Stereolithography in Maxilloctemy Defects: An Ex Vivo Study**  
MURAT S.  
JOURNAL OF ACADEMIC RESEARCH IN MEDICINE-JAREM, cilt.8, sa.3, ss.186-190, 2018 (ESCI)
- IV. **Gümüş zeolit ilave edilen akrilik rezinlerin eğilme dayanımlarının in-vitro değerlendirilmesi**  
MURAT S.  
Atatürk Üniversitesi Diş Hekimliği Fakültesi Dergisi, cilt.28, sa.4, ss.539-544, 2018 (Hakemli Dergi)
- V. **Enhanced retention of a maxillofacial prosthetic obturator using precision attachments: Two case reports**  
MURAT S., GÜRBÜZ A., Isayev A., Dokmez B., Cetin U.  
European Journal of Dentistry, cilt.6, sa.2, ss.212-217, 2012 (Scopus)
- VI. **Maksillofasiyal protezlerde estetik yaklaşımlar**  
Murat S., Gürbüz A., Günay Y., Oruç A. S.  
Türkiye Klinikleri Diş Hekimliği Bilimleri Dergisi, cilt.2, sa.1, ss.97-114, 2011 (Hakemli Dergi)
- VII. **Maksillofasiyal protezlerde implantların yeri**  
Gürbüz A., Murat S.  
Türkiye Klinikleri Diş Hekimliği Bilimleri Dergisi, cilt.1, sa.1, ss.113-122, 2010 (Hakemli Dergi)

## Kitap & Kitap Bölümleri

- I. **Üç Boyutlu Yazıcıların Protetik Uygulamalarda Kullanımı**  
MURAT S., BATAK B.  
DENTOMAKSİLLOFASİYAL RADYOLOJİDE ÜÇ BOYUTLU GÖRÜNTÜLEMEDEN ÜÇ BOYUTLU YAZICILARA, Prof. Dr. Ayşe Gülşahi, Editör, Türkiye Klinikleri, Ankara, ss.37-45, 2022
- II. **Üç Boyutlu Yazıcıların Protetik Uygulamalarda Kullanımı**  
MURAT S., BATAK B.  
Dentomaksillofasiyal Radyolojide Üç Boyutlu Görüntülemeye Üç Boyutlu Yazıcılara, Gülşahı A, Editör, Türkiye Klinikleri (Ortadoğu Reklam Tanıtım Yayıncılık Turizm Eğitim İnşaat Sanayi ve Ticaret A.Ş.), Ankara, ss.37-45, 2022

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Trueness of intraoral scanners in different model variations with maxillary defects**  
MURAT S., BATAK B.  
99th General Session&Exhibition of IADR, Amerika Birleşik Devletleri, 21 - 24 Temmuz 2021
- II. **Termal Siklusun Konvansiyonel ve CAD/CAM Geçici Restoratif Materyallerin Renklenmesi Üzerine Etkisi-Effect of thermal cycling on color stability of conventional and CAD/CAM provisional restorative materials.**  
BATAK B., MURAT S., ÇAKMAK G.  
24. Uluslararası Türk Prostodonti ve İmplantoloji Derneği Bilimsel Kongresi, Dalaman, Muğla., Türkiye, 31 Ekim - 03 Kasım 2019
- III. **EFFECT OF HOME BLEACHING ON THE SURFACE ROUGHNESS OF CAD-CAM MATERIALS WITH**

## **DIFFERENT SURFACE TREATMENTS**

YILMAZ D., BATAK B., MURAT S.

36th Year 18th Biennial Meeting of the International College of Prosthodontists Joint Meeting with 43rd Annual Meeting of the European Prosthodontic Association, Amsterdam, Hollanda, 4 - 07 Eylül 2019

- IV. **Fabrication of Obturator Prosthesis by using Digital Technology (poster).**  
Murat S., Kamburoğlu K., Gürbüz A.  
36 th Year 18th Biennial Meeting of International College of Prosthodontics ve 43th Annual Meeting of European Prosthodontic Association, Amsterdam, Hollanda., Amsterdam, Hollanda, 04 Eylül 2019
- V. **Effect of Home Bleaching Treatment on the Translucency of Novel CAD-CAM Ceramic Materials**  
BATAK B., MURAT S., YILMAZ D.  
36th Year 18th Biennial Meeting of the International College of Prosthodontists Joint Meeting with 43rd Annual Meeting of the European Prosthodontic Association, Amsterdam, Hollanda, 4 - 07 Eylül 2019
- VI. **Hipoalerjenik Protez Kaide Materyallerinin Yüzeý Özelliðlerinin ve Bakteri Tutunumlarının İn-vitro Deðerlendirilmesi**  
Murat S., Gürbüz A.  
1. Uluslararası Dental ve Oral Enfeksiyonlar Kongresi, Sakarya, Türkiye, 7 - 09 Eylül 2018, sa.143, ss.147-148
- VII. **Effect of Sealant Agents on Surface Properties of Blank Materials**  
MURAT S.  
TDB 24. Uluslararası Dişhekimliği Kongresi, 27 - 30 Eylül 2018
- VIII. **Obturator Fabrication by Fusion of Cone Beam Computed Tomography and Digital Impression.**  
Murat S., Kamburoğlu K., Gürbüz A.  
12th Asian Congress of Oral and Maxillofacial Radiology and 5th Green Health Conference, Mumbai, Mumbai, Hindistan, 6 - 09 Eylül 2018
- IX. **The Evaluation of the Adhesion of Candida albicans on CAD/CAM PMMA-based Polymers**  
MURAT S., ALP G., ALATALI C., UZUN M.  
The Scientific Congress of Turkish Prosthodontics and Implantology Association, 9 - 12 Kasım 2017
- X. **In-vitro Assessment of Mechanical Properties of Prepolymerized PMMA CAD/CAM Base Materials.**  
ARSLAN M. O., MURAT S., ALP G., ZAİMOĞLU A.  
41st Annual Conference of the European Prosthodontic Association, Bucharest, Romanya, 28 - 30 Eylül 2017
- XI. **Assessment of buccal marginal alveolar peri implant and periodontal defects using a cone beam CT system with and without the application of metal artefact reduction mode**  
KAMBUROĞLU K., KOLSUZ M. E., MURAT S., EREN H., YÜKSEL S., PAKSOY C. S.  
The 10th Asian Congress of Oral and Maxillofacial Radiology, Balvi, Letonya, 20 - 22 Kasım 2014
- XII. **Custom titanium implant integrated with titanium mesh and implant abutment for the rehabilitation of a patient with bisphosphonate related osteonecrosis a case report**  
ŞENER YAMANER I. D., MURAT S., PARLAR M.  
EAO 23rd Annual Scientific Meeting, ROMA, İtalya, 25 - 27 Eylül 2014, cilt.25
- XIII. **Accuracy of Virtual Models in the Assessment of Maxillary Defects Effects of Scan Parameters**  
KAMBUROĞLU K., MURAT S., ÖZEN T., KILIÇ C.  
FDI Annual World Dental Congress, New Delhi, Hindistan, 11 - 13 Eylül 2014
- XIV. **In Vitro Assessment of Surface Characteristics and Bacterial Adhesion of Hypoallergenic Prosthesis Base Materials**  
Murat S., Durmaz S., Gürbüz A.  
FDI Annual World Dental Congress, İstanbul, Türkiye, 28 - 30 Ağustos 2013
- XV. **Radiofrequency heating and magnetic field interactions of fixed partial dentures during 3 Tesla magnetic resonance imaging**  
SİMEL A., KAMBUROĞLU K., SİPAHİ O. C., MURAT S., SERDAR G., PİŞKİN B.  
FDI Annual World Dental Congress, İstanbul, Türkiye, 28 - 30 Ağustos 2013
- XVI. **Characterization of Primary and Adult Teeth Using Terahertz Spectroscopy Preliminary Findings**  
KAMBUROĞLU K., ÖZER Z., MURAT S., ALTAN H.  
The 19th International Congress of Dento-Maxillo-Facial Radiology, Bergen, Norveç, 22 - 27 Haziran 2013

- XVII. Accuracy and Reliability of Radiographic Techniques in the Assessment of Buccal Marginal Alveolar Peri implant Defects**  
KAMBUROĞLU K., MURAT S., KILIÇ C., AVSEVER H., ÖZEN T., FARMAN A., WC S.  
The 19th International Congress of Dento-Maxillo-Facial Radiology, Bergen, Norveç, 22 - 27 Haziran 2013
- XVIII. Radiographic measurements of the nasopalatal canal and surrounding bone a comparative pilot study**  
MURAT S., KAMBUROĞLU K.  
Computer Assisted Radiology and Surgery, 26th International Congress and Exhibition Congress Palace, PISA, İtalya, 27 - 30 Haziran 2012
- XIX. Nerve damage assessment following implant placement in human cadaver jaws an ex vivo study**  
Kamburoğlu K., Murat S., Kılıç C., Özen T., Gürbüz A.  
13th European Congress of Dentomaxillofacial Radiology, Leipzig, Almanya, 13 - 16 Haziran 2012
- XX. Visibility of buccal caries with different imaging techniques a pilot study**  
KAMBUROĞLU K., MURAT S., ABULFAZ İ., KURŞUN E. Ş.  
18th International Conference of Dento-Maxillo-Facial Radiology, Hiroshima, Japonya, Hiroshima, Japonya, 25 - 29 Mayıs 2011
- XXI. Assessment of extra oral bitewing radiography in the diagnosis of proximal caries**  
KAMBUROĞLU K., KOLSUZ M. E., MURAT S., YÜKSEL S., ÖZEN T.  
62nd American Academy of Oral and Maxillofacial Radiology Annual Meeting, Chicago, IL, ABD, CHICAGO, Amerika Birleşik Devletleri, 7 - 10 Aralık 2010
- XXII. Prosthetic management of a patient with postoperative radiotherapy after laryngectomy**  
MURAT S., HATİCE A.  
15th Congress of the Balkan Stomatological Society, SELANİK, Yunanistan, 22 - 25 Ekim 2010
- XXIII. Patient satisfaction with mandibular implant supported overdentures**  
MURAT S., TÜRKOĞLU K., GİZEM Ç., ÜÇTAŞLI S.  
1st HongKong International Dental Expo and Symposium, Hong-Kong, China, HONGKONG, 18 - 20 Haziran 2010
- XXIV. Accuracy of a newly developed CBCT aided surgical guide system in dental implant placement an ex vivo study**  
KAMBUROĞLU K., MURAT S., ÖZEN T., ÖZEN T.  
12th European Congress of Dento-maxillo Facial Radiology, İstanbul, Türkiye, 2 - 05 Haziran 2010
- XXV. Evaluation of fracture strength and surface hardening properties of resin cement with different light sources**  
Gürbüz A., Bahadır D., Murat S.  
33rd Annual Congress European Prosthodontic Association, Innsbruck, Avusturya, 1 - 03 Ekim 2009, sa.81, ss.113
- XXVI. Detection of vertical root fracture effect of different filters**  
KAMBUROĞLU K., MURAT S.  
14th Congress of Balkan Stomatological Society - 9th Scientific Congress of Bulgarian Dental Association, Varna, Bulgaria, Varna, Bulgaristan, 6 - 09 Mayıs 2009
- XXVII. The use of precision to enhance retention of a maxillofacial prosthetic obturator a case reports**  
Murat S., Gürbüz A., Dökmez B.  
14th Congress of Balkan Stomatological Society - 9th Scientific Congress of Bulgarian Dental Association, Varna, Varna, Bulgaristan, 6 - 09 Mayıs 2009
- XXVIII. Comparison of flexural strength of zirconium oxide and IPS Empress II ceramics and the techniques**  
Günay Y., Gürbüz A., Öztaş D. D., Murat S.  
12th Congress of the Balkan Stomatology Society, İstanbul, Türkiye, 12 - 14 Nisan 2007, sa.101, ss.54
- XXIX. The effect of surface treatment methods to two different full ceramics**  
Günay Y., Öztaş D. D., Gürbüz A., Murat S.  
12th Congress of the Balkan Stomatology Society, İstanbul, Türkiye, 12 - 14 Nisan 2007, sa.102, ss.54
- XXX. The effect of etching systems by using a resin cement to the different full ceramics**  
Günay Y., Murat S., Gürbüz A., Öztaş D. D.  
12th Congress of the Balkan Stomatology Society, İstanbul, Türkiye, 12 - 14 Ekim 2007, sa.103, ss.54

## **Desteklenen Projeler**

Murat S., Grbz A., Kamburođlu K., Batak B., TBTAK Projesi, TBTAK 219S255 numaralı proje: İmplant uygulanan maksiller rezeksiyon vakalarında dijital ölçlerin hassasiyetinin deęerlendirilmesi, 2019 - 2021  
MURAT S., TBTAK Projesi, ACCURACY OF VIRTUAL MODELS IN THE ASSESSMENT OF MAXILLARY DEFECTS EFFECTS OF SCAN PARAMETERS, 2011 - 2012

## **Metrikler**

Yayın: 60  
Atf (WoS): 419  
Atf (Scopus): 477  
H-İndeks (WoS): 11  
H-İndeks (Scopus): 11

## **Burslar**

TBTAK-2219 YURT DIŐI DOKTORA SONRASI ARAŐTIRMA BURS PROGRAMI , TBTAK, 2022 - 2023