

Res. Asst. CANER MURAT

Personal Information

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Address: Recep Tayyip Erdogan Üni., Mühendislik ve Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği Bölümü, Fener Mh./Merkez /RİZE

Education Information

Doctorate, Izmir Katip Celebi University, Institute Of Science, Elektrik Ve Elektronik Mühendisliği , Turkey 2019 - Continues

Postgraduate, Izmir Katip Celebi University, Institute Of Science, Elektrik Ve Elektronik Mühendisliği , Turkey 2017 - 2019

Undergraduate, Izmir Katip Celebi University, Faculty Of Engineering-Architecture, Elektrik Ve Elektronik Mühendisliği (İng), Turkey 2012 - 2017

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Postgraduate, MİKRODALGA ABLASYON SİSTEM UYGULAMALARI İÇİN MİKROİŞLEMCİ TABANLI SICAKLIK SENSÖRÜ İLE RF PROP TASARIMI, Izmir Katip Celebi University, Fen Bilimleri Enstitüsü, Elektrik - Elektronik Mühendisliği A.B.D., 2019

Research Areas

Electrical and Electronics Engineering, Electronic, Microwave Circuits, Electromagnetic, Electromagnetic in Biology and Medicine, Electric and Magnetic Fields, Electromagnetic Waves, Antennas and Propagation, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2019 - Continues

Courses

Atatürk's Principles and History of Turkish Revolution-I, Undergraduate, 2020 - 2021

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **A Novel 3-D Printed Microwave Probe for ISM Band Ablation Systems of Breast Cancer Treatment Applications**
Palandoken M., Murat C., Kaya A., Zhang B.
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.70, no.3, pp.1943-1953, 2022 (Journal Indexed in SCI)
- II. **A novel ISM band reflector type applicator design for microwave ablation systems**
Murat C., Palandoken M., Kaya I., Kaya A.
Electromagnetic Biology and Medicine, vol.40, pp.286-300, 2021 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Mikrodalga Tumor Ablasyonu : Kanser Aksiyon Mekanizması Ve MCF-7 In Vitro Sonuçlar**
Kaya D., Murat C.
"Çevre ve Halk Sağlığı için" Elektromanyetik Alanlar Etkileri Günleri, 11 - 12 November 2021, pp.35-37
- II. **Üç Boyutlu Elektriksel Eşdeğer Organ Modelinin Mikrodalga Ablasyon Performansının İncelenmesi**
Murat C., Kaya D., Kaya A.
Çevre ve Halk Sağlığı için" Elektromanyetik Alanlar Etkileri Günleri, 11 - 12 November 2021, pp.31-33
- III. **Flexible Antenna Applicator Design for Medical Applications and Low Energy Pulsed Radio Frequency Energy Applications**
GÜRKAN Ç., MURAT C., KAYA A.
2nd International Congress on Engineering and Life Science, Kastamonu, Turkey, 11 - 14 April 2019, pp.410-417
- IV. **Pulsed Electromagnetic Field Application with High-Resolution Wireless Sensor Network**
AYDIN Ö., MURAT C., KAYA A.
2nd International Congress on Engineering and Life Science, Kastamonu, Turkey, 11 - 14 April 2019
- V. **A Helically Shaped With Open Ended Reflector Probe Design For ISM Band Microwave Ablation System**
MURAT C., PALANDÖKEN M., KAYA A., KAYA İ.
The 7th Advanced Electromagnetics Symposium, Lizbon, Portugal, 24 - 26 July 2019
- VI. **A Helically Shaped With Closed Ended Reflector Probe Design For ISM Band Microwave Ablation System**
MURAT C., PALANDÖKEN M., KAYA A., KAYA İ.
The 7th Advanced Electromagnetics Symposium, Lizbon, Portugal, 24 - 26 July 2019
- VII. **Microwave Probe Design for ISM Band Microwave Ablation Systems**
MURAT C., KAYA A., KAYA İ., KAYA E., PALANDÖKEN M.
2018 Medical Technologies National Congress (TIPTEKNO), Magusa, Cyprus (Kktc), 8 - 10 November 2018
- VIII. **Pulsed Electromagnetic Field Therapy Device Prototype Design**
KAYA A., PALANDÖKEN M., MURAT C.
2nd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2017, pp.998-1003
- IX. **Numerical and Analytical Investigation Of Coil Array Based PEMFApplicator for Magnetic Field Homogenization**
PALANDÖKEN M., MURAT C., KAYA A.
2nd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2017, vol.993

Supported Projects

Beyatlı E., TUBITAK Project, 680 nm'de Daralan Kılavuz Yapılı ve 1.6 µm Bölgesinde Yüksek Parlaklığa Sahip Diyotlarla Uyarılan TM:Yag ve TM:Luag Lazerlerinin Geliştirilip Performanslarının İncelenmesi ve Modellenmesi , 2020 - 2023
Kaya A., TUBITAK Project, Akıllı Alaşım (Sma) İle Anten-Aplikatör Tasarımları Ve Çoklu Sensor Takımları Kullanılarak Darbeli Elektromanyetik Alan Cihazı Tasarımı Ve Metastatik Meme Kanserinde Tedavi Ve Ağrı Azaltmaya Yönelik Etkilerin İncelenmesi, 2018 - 2020
MURAT C., TUBITAK Project, Elektronik Kontrollü Çok Fonksiyonlu Tekrar Konfigüre Edilebilir UHF Bandında Metal Yoğun Ortamda Çalışan RFID Antenlerle Çelik Jant Üretim Takip Sistemi, 2016 - 2017

Scholarships

Full-Time Postgraduate Student Grant in 1001 Research Projects, TUBITAK, 2018 - 2020