Assoc. Prof. ÖMER KASAR

Personal Information

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International Researcher IDs
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Publons / Web Of Science ResearcherID: Q-1676-2019

Education Information

Doctorate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Turkey 2016 - 2019
Postgraduate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Turkey 2013 - 2015
Undergraduate, Suleyman Demirel University, Turkey 2006 - 2011

Dissertations

Doctorate, Geniş bantlı enerji hasatlama devrelerinin tasarımı ve gerçeklenmesi, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, 2019
Postgraduate, Dikdörtgen ve dairesel yama antenler üzerinde reel empedans uyumlandırma tekniklerinin nümerik ve deneysel yöntemlerle incelenmesi, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, 2015

Research Areas

Electronic Circuits, Microwave Circuits, Electromagnetic, Electromagnetic Band Spacing Structures, Electromagnetic Environment and Interaction, Electromagnetic Waves, Antennas and Propagation, Passive Microwave Circuits, Electronics, radio and microwave technologies

Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Of Teknoloji Fakültesi, 2024 - Continues
Associate Professor, Artvin Coruh University, 2021 - Continues
Assistant Professor, Artvin Coruh University, 2019 - Continues
Research Assistant, Artvin Coruh University, 2018 - 2019
Research Assistant, Suleyman Demirel University, Fen Bilimleri Enstitüsü, 2014 - 2018
Research Assistant, Artvin Coruh University, 2012 - 2013

Academic and Administrative Experience

Head of Department, Artvin Coruh University, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği Bölümü, 2021 - 2024

Head of Department, Artvin Coruh University, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, 2021 - 2024

Courses

Elektronik Haberleşme Bilgisi, Associate Degree, 2022 - 2023
Elektronik Ölçme ve Enstrümantasyon, Undergraduate, 2021 - 2022
Antenler ve Propagasyon, Undergraduate, 2021 - 2022
Mikrodalga ve Antenler Laboratuvarı, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Design and implementation of a 3D printed RF power transceiver clamp to measure the water level in PVC water pipes**
Kasar Ö., GEÇİN M., GÖZEL M. A.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.31, no.5, 2021 (SCI-Expanded)

II. **3D Printed Microwave Clamp Probe Design to Detect Water Level in PVC Pipes**
Kasar Ö., GÖZEL M. A., GEÇİN M.
INFORMACIJE MIDEM-JOURNAL OF MICROELECTRONICS ELECTRONIC COMPONENTS AND MATERIALS, vol.51, no.3, pp.151-155, 2021 (SCI-Expanded)

III. **A theoretical design of ultra-wideband multisection Wilkinson power divider using Euler polynomials**
Kasar Ö., KAHRİMAN M.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.62, no.12, pp.3869-3875, 2020 (SCI-Expanded)

IV. **A low profile compact three-way Wilkinson power divider with size reduction**
Kasar Ö.
JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTECHNICKY CASOPIS, vol.71, no.6, pp.419-422, 2020 (SCI-Expanded)

V. **Realization of reconfigurable filtering horn antennas using active frequency selective surfaces for GSM and LTE signal filtering**
Kasar Ö., Belen M. A.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.30, no.11, 2020 (SCI-Expanded)

VI. **Analysis of rectifier stage number and load resistance in an RF energy harvesting circuit**
Kasar Ö., GÖZEL M. A., KAHRİMAN M.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.62, no.4, pp.1542-1547, 2020 (SCI-Expanded)

VII. **Design of an efficiency-enhanced Greinacher rectifier operating in the GSM 1800 band by using rat-race coupler for RF energy harvesting applications**
GÖZEL M. A., KAHRİMAN M., Kasar Ö.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.29, no.1, 2019 (SCI-Expanded)

VIII. **Application of ultra wideband RF energy harvesting by using multisection Wilkinson power combiner**
Kasar Ö., KAHRİMAN M., GÖZEL M. A.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.29, no.1, 2019 (SCI-Expanded)

Articles Published in Other Journals

I. **PVC Su Borularının İçindeki Su Seviyesinin Mikro Şerit Dipol Antenler ile Tespit Edilmesi**
KASAR Ö.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.8, no.4, 2020 (Peer-Reviewed Journal)

II. **DESIGN AND IMPLEMENTATION OF COMPACT FOUR WAY WILKINSON POWER DIVIDER FOR UHF APPLICATIONS**
Kasar Ö.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.4, pp.2193-2203, 2020 (ESCI)

III. **868 MHz UHF bandında H-şeklinde katlanmış implant mikroşerit dipol anten tasarımı**
GÖZEL M. A., KASAR Ö., KAHRİMAN M.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.10, no.3, pp.797-806, 2019 (Peer-Reviewed Journal)

IV. **Wilkinson Güç Birleştirici Kullanarak İki Girişli RF Enerji Hasatlama Devresi ve DC Yük Analizi**
KASAR Ö., KAHRİMAN M., GÖZEL M. A.
JOURNAL OF GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES OF MEHMET AKIF ERSOY UNIVERSITY, vol.10, no.1, pp.68-72, 2019 (Peer-Reviewed Journal)

V. **Investigation of the Effect of RF-DC Power Conversion Efficiency Single/Double Layered Dickson Rectifier Circuit Using HSMS285c Diode in 545 MHz to 5800 MHz GSM and ISM Bands**
GÖZEL M. A., KASAR Ö., KAHRİMAN M.
El-Cezeri Journal of Science and Engineering, vol.6, no.1, pp.24-30, 2019 (Scopus)

VI. **Broadband Wilkinson power divider based on chebyshev impedance transform method**
KASAR Ö., GÖZEL M. A., KAHRİMAN M.
International Advanced Researches and Engineering Journal, vol.2, no.3, pp.299-303, 2018 (Peer-Reviewed Journal)

VII. **Açısal Olarak Değiştirilebilir Dikdörtgen Yamalı Frekans Seçici Yüzeylerle, Ayarlanabilir Bant Geçiren Filtre Tasarımı**
KASAR Ö., GEÇİN M., GÖZEL M. A.
El-Cezeri Journal of Science and Engineering, vol.5, no.3, pp.756-762, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **3 BOYUTLU BASILMIŞ LİNEER POLARİZELİ KONİ ANTENLERİN GNSS UYGULAMALARI VE ANTARKTİKA KUTUP ÇALIŞMALARINDA KULLANILABİLİRLİĞİNİN DEĞERLENDİRİLMESİ**
KASAR Ö., DURDAĞ U. M.
6. ULUSAL KUTUP BİLİMLERİ ÇALIŞTAYI, Trabzon, Turkey, 30 November - 01 December 2022, pp.142-143

II. **A 50 GHz Frequency Selective Surface Design on Double Layer Structure for U Band Applications**
KASAR Ö.
International Conference onEngineering Technologies (ICENTE'20), 19 - 21 November 2020

III. **Eşit Olmayan Kollu Wilkinson Güç Bölücüler için Yeni Bir Tasarım: Euler Metodu Yaklaşımı**
KASAR Ö.
ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI (ELECO 2020), Bursa, Turkey, 26 - 28 November 2020

IV. **A New Design for Unequal Way Wilkinson Power Dividers: Euler Method Approach**
Kasar Ö.
12th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2020, pp.68-70

V. **Geniş Bantlı Wilkinson Güç Birleştiricilerle DVB-T, GSM-900, GSM-1800 ve ISM Bantlarında RF Enerji Hasatlama Uygulaması**
KASAR Ö., GÖZEL M. A., KAHRİMAN M.
URSI-TÜRKİYE'2018 IX. Bilimsel Kongresi, Konya, Turkey, 6 - 08 September 2018, pp.313-315

VI. **Broadband Impedance Matching Techniques in Multi Stepped Wilkinson Power Dividers**
KASAR Ö., GÖZEL M. A., KAHRİMAN M.
1. International Technological Sciences and Design Symposium, Giresun, Turkey, 27 - 29 June 2018, pp.362

VII. **Investigation of RF-DC Conversion Efficiency Based On Stage of the Number Of Rectifier Layers in RF Energy Harvesting System**
GÖZEL M. A., KASAR Ö., KAHRİMAN M.
1. International Technological Sciences and Design Symposium, Giresun, Turkey, 27 September 2018, pp.337

VIII. **Angularly Tunable U Shaped Frequency Selective Surfaces For Filtering RF Communication Signals**
KASAR Ö., GEÇİN M., GÖZEL M. A.
1. International Technological Sciences and Design Symposium, Giresun, Turkey, 27 - 29 June 2018, pp.347

IX. **Microstrip Dipole Antenna Design for Tissue Application in The UHF Band**
GÖZEL M. A., KAHRİMAN M., KASAR Ö.
1. International Technological Sciences and Design Symposium, Giresun, Turkey, 27 - 29 June 2018, pp.360

X. **Farklı Dielektrik ve Fiziksel Özelliklere Sahip Alttaş Malzemelerin Kullanıldığı Baskı devre kartlarının RF Doğrultma Devrelerinde Güç Doğrultma Verimine Etkisi**
GÖZEL M. A., KASAR Ö., KAHRİMAN M.
III. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Gaziantep, Turkey, 21 - 22 June 2018, pp.867-871

XI. **Comparison of Diode Models in RF Energy Harvesting Using Greinacher Voltage Multiplier Rectifier Circuit**
GÖZEL M. A., KASAR Ö., KAHRİMAN M.
III. Uluslararasr Mesleki ve Teknik Bilimler Kongrei (UMTEB III), Gaziantep, Turkey, 21 - 22 June 2018, pp.861-866

XII. **Chebyshev Empedans Uyumlandırma Metoduyla Geniş Bant Wilkinson Güç Bölücü Devresi Tasarımı**
KASAR Ö., KAHRİMAN M.
International Advanced Researches Engineering Congress-2017, Osmaniye, Turkey, 16 - 18 November 2017, pp.1081-1085

XIII. **New Multi Stepped Real Impedance Matching Method with Euler Polynomials and Its Application on Transmission Line**
KASAR Ö., KAHRİMAN M., GÖZEL M. A.
International Workshop on Mathematical Methods in Engineering, Ankara, Turkey, 27 - 29 April 2017, pp.87

XIV. **A 5.8 Ghz Ism Bant Microstrip Patch Antenna Design and Its Impedance Matching with Euler Method**
KASAR Ö., KAHRİMAN M., GÖZEL M. A.
International Workshop on Mathematical Methods in Engineering, Ankara, Turkey, 27 - 29 April 2017, pp.87-88

XV. **Using Nanofibers In Frequency Selective Surfaces As Dielectric Substrate**
KASAR Ö., CENGİZ Y., ÇAKMAK E.
3th International Conference on Advanced Technology Sciences (ICAT'16), Konya, Turkey, 1 - 03 September 2016, pp.1464-1465

XVI. **Nanolif Tabanlı Frekans Seçici Yüzey ile Bant Geçiren Filtre Tasarımı**
KASAR Ö., CENGİZ Y., ÇAKMAK E.
URSI-TÜRKİYE' 2016 VIII. Bilimsel Kongresi, Ankara, Turkey, 1 - 03 September 2016

XVII. **Nanolif Tabanlı Metamateryal Yüzey ve Anten Tasarımı**
URUL B., ÇAKMAK E., KASAR Ö., CENGİZ Y.
VIII. Uluslararası Ar-Ge Proje Pazarı Zirvesi, Bursa, Turkey, 12 - 13 May 2016

XVIII. **Nanoliflerin Mikrodalga Frekanslarında Band Geçiren Yüzey Olarak Kullanılması**
KASAR Ö., ÇAKMAK E., URUL B., CENGİZ Y.
VIII. Uluslararası Ar-Ge Proje Pazarı Zirvesi, Bursa, Turkey, 12 - 13 May 2016

XIX. **X Bant Uygulamalar için Ay Yıldız Şekilli Çift Bant Mikroşerit Yama Anten Tasarımı**
KASAR Ö., Dursun Y.
Çankaya Üniversitesi 8. Mühendislik ve Teknoloji Sempozyumu, Turkey, 14 - 15 May 2015

Metrics

Publication: 34
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Citation (Scopus): 58
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H-Index (Scopus): 5