

## Asst. Prof. ÖZNUR KÜÇÜKSARI

### Personal Information

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### International Researcher IDs

ScholarID: h92-whgAAAAJ

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Publons / Web Of Science ResearcherID: F-5645-2018

Yoksis Researcher ID: 187157

### Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2005 - 2014

Postgraduate, Yildiz Technical University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Pr., Turkey 2002 - 2005

Undergraduate, Yildiz Technical University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Pr., Turkey 1997 - 2001

### Dissertations

Doctorate, Novel multi-band metamaterials in microwave region with applications in antennas, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 2014

Postgraduate, Optik dalga kılavuzlarında propagasyon özelliklerinin incelenmesi ve optik kuplör ile optik sensör analizi, Yıldız Teknik Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Pr., 2005

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2023 - Continues

Research Assistant PhD, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2014 - 2023

Research Assistant, Middle East Technical University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2005 - 2014

Expert, University of Arizona, College Of Engineering, Department Of Electrical And Computer Engineering, 2012 - 2013

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

- I. **Multi-functional metamaterial polarization convertor in S/C/X bands**  
Turkmen-Kucuksari Ö.

- Optik, vol.282, 2023 (SCI-Expanded)
- II. **Gain enhancement of co-planar waveguide fed ultra-wide bandwidth monopole antenna with enlarged ground plane and metal reflectors**  
Turkmen-Kucuksari Ö., Kocakaya A., Çakır G., Çimen S.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.126, 2020 (SCI-Expanded)
  - III. **High constant gain modified antipodal Vivaldi antenna incorporated with a phase compensation lens and a frequency selective surface**  
Turkmen-Kucuksari Ö., Kocakaya A., Çimen S., Çakır G.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.113, 2020 (SCI-Expanded)
  - IV. **Constant gain modified antipodal vivaldi antenna with rake-like wires operating over 3.1-10.6 GHz**  
KÜÇÜKSARI Ö., ÇİMEN S., ÇAKIR G.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.60, no.5, pp.1205-1211, 2018 (SCI-Expanded)
  - V. **Metamaterial absorber-based sensor embedded into X-band waveguide**  
Sabah C., Turkmen-Kucuksari Ö., Turhan-Sayan G.  
ELECTRONICS LETTERS, vol.50, no.15, pp.1075-1076, 2014 (SCI-Expanded)
  - VI. **SINGLE-, DUAL-, AND TRIPLE-BAND METAMATERIAL-INSPIRED ELECTRICALLY SMALL PLANAR MAGNETIC DIPOLE ANTENNAS**  
Turkmen Ö., SAYAN G., Ziolkowski R. W.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.56, no.1, pp.83-87, 2014 (SCI-Expanded)
  - VII. **Effects of using different boundary conditions and computational domain dimensions on modeling and simulations of periodic metamaterial arrays in microwave frequencies**  
Turkmen Ö., EKMEKÇİ E., Turhan-Sayan G.  
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.23, no.4, pp.459-465, 2013 (SCI-Expanded)
  - VIII. **Nested U-ring resonators: a novel multi-band metamaterial design in microwave region**  
Turkmen Ö., Ekmekci E., Turhan-Sayan G.  
IET MICROWAVES ANTENNAS & PROPAGATION, vol.6, no.10, pp.1102-1108, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Multi-Band and Multi-Functional Metasurface Polarization Converter Improving Linear to Circular Polarization Conversion Band**  
Küçüksarı Ö.  
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.11, no.1, pp.161-173, 2024 (Peer-Reviewed Journal)
- II. **Improving an UWB Antenna Gain by Using Metallic Plates**  
EREN K., ÇİMEN S., KÜÇÜKSARI Ö., ÇAKIR G.  
Journal of Current Researches on Engineering, Science and Technology, vol.3, no.2, 2017 (Peer-Reviewed Journal)

## Papers Published in Refereed Scientific Meetings

- I. **Multi Functional Terahertz Polarization Converter Having a Wideband Almost Perfect Linear to Circular Polarization Conversion**  
Küçüksarı Ö.  
14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Bursa, Turkey, 30 November - 02 December 2023, no.126, pp.1-4
- II. **PID Kontrolör Kullanılarak Top & Plaka Kontrolü**  
KÜÇÜKSARI Ö.  
TOK 2021 Otomatik Kontrol Ulusal Kongresi, Van, Turkey, 02 September 2021, pp.142-147
- III. **Metamalzeme Lensin Enine ve Boyuna Işıma Yapan Antenlerin Kazancı Üzerindeki Etkisinin**

## **Karşılaştırılması**

KÜÇÜKSARI Ö.

Uluslararası Akademik Araştırmalar Kongresi (International Congress Of Academic Research), 16 - 18 September 2019

- IV. **UWB Gain Improvement of End-Fire Antenna Using Metamaterial Lens**  
KÜÇÜKSARI Ö.  
VI. Uluslararası Fen, Mühendislik ve Mimarlık Bilimlerinde Akademik Çalışmalar Sempozyumu, 13 - 15 June 2019
- V. **Effect of the Different End Shapes on the Gain Flatness of the Antipodal Vivaldi Antenna**  
KÜÇÜKSARI Ö., ÇİMEN S., ÇAKIR G.  
ELECO 2017 10th International Conference on Electrical and Electronics Engineering November 30-December 2, 2017, Bursa, Turkey, 30 November - 02 December 2017
- VI. **Effect of the Different End Shapes on the Gain Flatness of the Antipodal Vivaldi Antenna**  
Turkmen-Kucuksari Ö., ÇİMEN S., ÇAKIR G.  
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.1027-1029
- VII. **İç İçe Geçmiş Çok Halkalı Çok Bantlı Metamalzeme Rezonatörleri**  
KÜÇÜKSARI Ö., SAYAN G.  
VII. URSI-Türkiye'2014 Bilimsel Kongresi, Elazığ, Turkey, 28 August 2014
- VIII. **Metamaterial inspired, electrically small, GSM antenna with steerable radiation patterns and high radiation efficiency**  
KÜÇÜKSARI Ö., SAYAN G., Ziolkowski R. W.  
IEEE AP-S International Symposium, Orlando, United States Of America, 7 - 13 July 2013, pp.770-771
- IX. **Effects of Using Different Boundary Conditions and Computational Domain Dimensions on Modelling and Simulations of Metamaterial Arrays in Microwave Frequencies**  
KÜÇÜKSARI Ö., EKMEKÇİ E., SAYAN G.  
12th Mediterranean Microwave Symposium (MMS 2012), 2 - 05 September 2012
- X. **Effects of Having Dense Metamaterial Arrays on the Retrieved Parameter Results for Permittivity and Permeability**  
SAYAN G., KÜÇÜKSARI Ö.  
" IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, 8 - 14 July 2012
- XI. **Miniaturization of U-shaped multi-band metamaterial structures**  
KÜÇÜKSARI Ö., EKMEKÇİ E., SAYAN G.  
2011 XXXth URSI General Assembly and Scientific Symposium, 13 - 20 August 2011
- XII. **Parametric investigation of a new multi-band metamaterial design: U-shaped multiple ring magnetic resonators**  
KÜÇÜKSARI Ö., EKMEKÇİ E., SAYAN G.  
2011 IEEE INTERNATIONAL SYMPOSIUM ON ANTENNAS AND PROPAGATION (APSURSI), Spokane, United States Of America, 3 - 08 July 2011, pp.1516-1518
- XIII. **A New Multi-ring SRR Type Metamaterial Design with Multiple Magnetic Resonances**  
KÜÇÜKSARI Ö., EKMEKÇİ E., SAYAN G.  
PIERS 2011 MARRAKESH: PROGRESS IN ELECTROMAGNETICS RESEARCH SYMPOSIUM, Marrakush, Morocco, 20 - 23 March 2011, pp.315-319
- XIV. **Optik Fiber İnterferometrik Sensörlerin Analizi**  
ÜNVERDİ N. Ö., KÜÇÜKSARI Ö.  
8. Ulusal Fotonik Çalıştayı, İstanbul, Turkey, 15 September 2006
- XV. **Optik Fiber İnterferometrik Sensörlerde Propagasyon Analizi**  
ÜNVERDİ N. Ö., ÜNVERDİ N. A., KÜÇÜKSARI Ö.  
SİU 2006 IEEE 14. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Antalya, Turkey, 17 April 2006
- XVI. **Optik Fiber İnterferometrik Sensörle Basınç ve Sıcaklık Ölçümünün Analizi**  
ÜNVERDİ N. Ö., KÜÇÜKSARI Ö.

II. İletişim Teknolojileri Ulusal Sempozyumu (İTUSEM 2005), Adana, Turkey, 17 November 2005

## **Supported Projects**

Çakır G., Çimen S., Küçüksarı Ö., TUBITAK Project, Ultra Geniş Bantlı Radar Sistemleri İçin Hibrit Yöntemler Kullanarak Yüksek Kazançlı Anten Tasarımı, 2016 - 2019

## **Metrics**

Publication: 26

Citation (WoS): 95

Citation (Scopus): 121

H-Index (WoS): 5

H-Index (Scopus): 5

## **Non Academic Experience**

The University of Arizona, Tucson, Arizona, Amerika, Ziyaretçi Araştırmacı