

# Prof. SİBEL ÇİMEN

## Personal Information

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## International Researcher IDs

ScholarID: FHBbWoIAAAAJ

ORCID: 0000-0002-6809-1119

Publons / Web Of Science ResearcherID: F-6332-2018

ScopusID: 58540988300

Yoksis Researcher ID: 152322

## Education Information

Doctorate, Kocaeli University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 2005 - 2009

Postgraduate, Kocaeli University, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 2002 - 2005

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1998 - 2002

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Elektromanyetik filtre ve dalgakılavuzu uygulamaları için metamateryal katmanların benzetimi ve tasarımı, Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2009

Postgraduate, Geniş bantlı mikroşerit filtre tasarımı, Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2005

## Research Areas

Electromagnetic, Electromagnetic Waves, Antennas and Propagation, Passive Microwave Circuits

## Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2024 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2015 - 2024

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2010 - 2015

Research Assistant, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2004 - 2010

## Academic and Administrative Experience

BAP Scientific Commissioner, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2025 - Continues

Member of Department Quality Commission, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2019 - Continues

## Courses

ANALYSIS OF MICROWAVE CIRCUITS, Postgraduate, 2024 - 2025, 2023 - 2024

MICROWAVE CIRCUIT DESIGN , Undergraduate, 2024 - 2025, 2023 - 2024

ELEKTROMANYETİK DALGA TEORİSİ, Undergraduate, 2019 - 2020

ELEKTROMANYETİK ALAN TEORİSİ, Undergraduate, 2018 - 2019

ELEKTROMANYETİK ALAN TEORİSİ, Undergraduate, 2018 - 2019

## Supervised Theses

Ünaldı S., Çimen S., X ve Ka bant uygulamaları için yüksek kazanç bant genişliğine sahip iletici dizi anten tasarımları, Postgraduate, M.MALKOÇ(Student), 2024

Çimen S., Elektromanyetik görünmezlik sağlayan silindirik yüzey tasarımı, Doctorate, H.BODUR(Student), 2024

Çimen S., Ultra geniş bant uygulamaları için çentik karakteristikli yüksek izolasyonlu mimo anten tasarımları, Postgraduate, C.ÖZTÜRK(Student), 2024

Çimen S., Hibrit yöntemler kullanılarak ultra geniş bant anten kazanç artırımı, Postgraduate, K.EREN(Student), 2019

Çimen S., Dizi antenlerde yan kulakçık seviyesinin azaltılması, Postgraduate, İ.AY(Student), 2019

Çimen S., Teşneli N. B., FARKLI BANT GENİŞLİĞİNDEKİ ANTENLERDE ÖZGÜN BİRİM HÜCRELİ PERİYODİK YAPILAR İLE RADAR KESİT ALANI AZALTIMI, Doctorate, S.ÜNALDI(Student), 2019

Çimen S., Mikroşerit yansıtıcı dizi anten tasarımı ve uygulamaları, Postgraduate, H.BODUR(Student), 2017

## Jury Memberships

Post Graduate, Post Graduate, Kocaeli Üniversitesi, February, 2020

Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, September, 2019

Post Graduate, Post Graduate, Kocaeli Üniversitesi, July, 2019

Doctorate, Doctorate, Sakarya Uygulamalı Bilimler Üniversitesi, January, 2019

Doctorate, Doctorate, Kocaeli Üniversitesi, June, 2018

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

- I. **Scattering suppression with dual-band single-layer mantle cloak for cylindrical metasurface**  
Bodur H., Çimen S.  
AEU - International Journal of Electronics and Communications, vol.168, 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. **Reflectarray antenna design with double cutted ring element for X-band applications**  
BODUR H., ÇİMEN S.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.62, no.10, pp.3248-3254, 2020 (SCI-Expanded)
- IV. **RCS reduction of reflectarray using new variable size FSS method**  
Unaldi S., Bodur H., Çimen S., Çakır G.

- AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.117, 2020 (SCI-Expanded)
- V. **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)
- VI. **Polarization and angle independent ultra wideband frequency selective surface design**  
KOCAKAYA A., ÇAKIR G., ÇİMEN S.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.1, pp.287-295, 2020 (SCI-Expanded)
- VII. **Novel Angular and Polarization Independent Band-Stop Frequency Selective Surface for Ultra-Wide Band Applications**  
KOCAKAYA A., ÇİMEN S., ÇAKIR G.  
RADIOENGINEERING, vol.28, no.1, pp.147-153, 2019 (SCI-Expanded)
- VIII. **Single layer reflectarray antenna design with variable size patches for X-band applications**  
BODUR H., ÇİMEN S.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.4, pp.1861-1869, 2019 (SCI-Expanded)
- IX. **A Novel Miniaturized Polarization Independent Frequency Selective Surface with UWB Response**  
Unaldi S., Tesneli N. B., ÇİMEN S.  
RADIOENGINEERING, vol.27, no.4, pp.1012-1017, 2018 (SCI-Expanded)
- X. **Broadband single-layer reflectarray antenna for X-band applications**  
BODUR H., Unaldi S., ÇİMEN S., ÇAKIR G.  
IET MICROWAVES ANTENNAS & PROPAGATION, vol.12, no.10, pp.1609-1612, 2018 (SCI-Expanded)
- XI. **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)
- XII. **A Novel Dual-Band Ultrathin FSS With Closely Settled Frequency Response**  
Unaldi S., ÇİMEN S., ÇAKIR G., AYTEN U. E.  
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, vol.16, pp.1381-1384, 2017 (SCI-Expanded)
- XIII. **Design of double-sided axe-shaped ultra-wideband antenna with reduced radar cross-section**  
DİKMEN C. M., ÇİMEN S., ÇAKIR G.  
IET MICROWAVES ANTENNAS & PROPAGATION, vol.8, no.8, pp.571-579, 2014 (SCI-Expanded)
- XIV. **Planar Octagonal-Shaped UWB Antenna With Reduced Radar Cross Section**  
DİKMEN C. M., ÇİMEN S., ÇAKIR G.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.62, no.6, pp.2946-2953, 2014 (SCI-Expanded)
- XV. **Novel closely spaced planar dual-band frequency-selective surface**  
Cimen S.  
IET MICROWAVES ANTENNAS & PROPAGATION, vol.7, no.11, pp.894-899, 2013 (SCI-Expanded)
- XVI. **A novel ultrawideband antenna with switchable notch band**  
DİKMEN C. M., ÇİMEN S., ÇAKIR G.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.55, no.7, pp.1461-1466, 2013 (SCI-Expanded)
- XVII. **FILTER DESIGN AND MODE SUPPRESSION INSIDE METAMATERIAL-FILLED RECTANGULAR WAVEGUIDES**  
ÇİMEN S., ÇAKIR G., Sevgi L.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.52, no.7, pp.1659-1663, 2010 (SCI-Expanded)
- XVIII. **METAMATERIAL SLABS AND REALIZATION OF ALL-TYPE FILTER CHARACTERISTICS: NUMERICAL AND ANALYTICAL INVESTIGATIONS**  
ÇİMEN S., ÇAKIR G., Sevgi L.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.51, no.4, pp.894-899, 2009 (SCI-Expanded)
- XIX. **Generic microstrip structure for the realization of all-type broadband filters**  
Gunduz S., Cakir G., Sevgi L.

## Articles Published in Other Journals

- I. **Compact Ultra-Wideband Microstrip MIMO Antenna with Triple Notch-Based Characteristic**  
Öztürk C., Çimen S.  
Engineering Research Express, vol.1, no.1, pp.1-20, 2025 (Scopus)
- 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)

## Refereed Congress / Symposium Publications in Proceedings

- I. **LOW PROFILE MM-WAVE TRANSMITARRAY DESIGN FOR 5G APPLICATIONS**  
Malkoç M., Ünalı S., Çimen S.  
5th. International Congress on Contemporary Scientific Research, Kayseri, Türkiye, 21 - 22 Nisan 2024, Kayseri, Turkey, 21 - 22 April 2024, pp.846-856
- II. **New SIL Calculation Software as per CISPR 16-1-5**  
Çakır S., Şen O., Tektaş B., Büyük S., ÇİMEN S.  
2024 International Symposium on Electromagnetic Compatibility, EMC Europe 2024, Bruges, Belgium, 2 - 05 September 2024, pp.479-482
- III. **Microstrip Patch Filtering Antenna**  
Yeşilirmak B., Çimen S.  
INTERNATIONAL MARMARA SCIENCES CONGRESS IMASCON 2023 AUTUMN 15-16 DECEMBER , Kocaeli, Turkey, 15 - 16 December 2023, pp.1-7
- IV. **5G MIMO (MULTIPLE-INPUT-MULTIPLE-OUTPUT) ANTENNA DESIGN WITH REDUCED MUTUAL COUPLING**  
Aydın E., Çimen S., Çakır G.  
11. ULUSLARARASI MARMARA FEN BİLİMLERİ KONGRESİ , Kocaeli, Turkey, 15 - 16 December 2023, pp.1-7
- V. **Silindirik Nesnelere Elektromanyetik Saçılmanın Azaltılması için Tek Katmanlı Yüzey Tasarımı**  
Bodur H., Çimen S.  
XI. URSI-TR 2023 BİLİMSEL KONGRESİ ULUSAL GENEL KURUL TOPLANTISI, İstanbul, Turkey, 31 August - 02 September 2023, pp.1-3
- VI. **Üç Bant Çentikli Yüksek İzolasyonlu UWB-MIMO Anten**  
Öztürk C., Çimen S.  
URSI Türkiye 2023, XI. Bilimsel Kongresi, İstanbul, Turkey, 31 August - 02 September 2023, pp.1-7
- VII. **Mantle Cloak Desing of a Dielectric Cylinder for Scattering Cancellation**  
BODUR H., ÇİMEN S.  
30th Telecommunications forum TELFOR 2022, Belgrade, Serbia, 15 November 2022, pp.1-3
- VIII. **UYUMLU MESH-GRİD ŞEKLİ FREKANS SEÇİCİ YÜZEY (FSY) KULLANILARAK SİLİNDİRİK NESNELER İÇİN MANTO PELERİNİN ANALİZİ VE GERÇEKLEŞTİRİLMESİ**  
Al Hasan A., BODUR H., ÇİMEN S.  
International Marmara Sciences Congress (Imascon 2022 Spring), Turkey, 13 May 2022
- IX. **Broadband Calculable Dipole Antennas for SIL Measurements of CALTS**  
ŞEN O., ÇİMEN S.  
2021 IEEE Indian Conference on Antennas and Propagation (InCAP), India, 13 December 2021
- X. **Frekans Seçici Yüzey İle Dizi Antende Yan Lob Seviyesi Azaltma**  
Ay İ., ÇİMEN S.  
INTERNATIONAL MARMARA SCIENCES CONGRESS IMASCON 2019 SPRING, 26 - 28 April 2019

- XI. **X-Bant Uygulamalar İçin Tek Katmanlı Geniş Bant Yansıtıcı Dizi Anten Tasarımı**  
Bodur H., Ünalı S., Çimen S., Çakır G.  
IMCOFE 2018 V. International multidisciplinary conference of eurasia , Barcelona, Spain, 23 July 2018, pp.101
- XII. **Double Layer FSS Design for UWB Application**  
Bodur H., Çimen S.  
Imcofe V. International multidisciplinary conference of eurasia (imcofe) , Barcelona, Spain, 23 July 2018, pp.189-196
- XIII. **Double Layer FSS Design for UWB Application**  
Bodur H., Çimen S.  
Imcofe V. International multidisciplinary conference of eurasia (imcofe) , Barcelona, Spain, 23 July 2018, pp.189-196
- XIV. **X-Bant Uygulamalar İçin Tek Katmanlı Geniş Bant Yansıtıcı Dizi Anten Tasarımı**  
Bodur H., Ünalı S., Çimen S., Çakır G.  
IMCOFE 2018 V. International multidisciplinary conference of eurasia , Barcelona, Spain, 23 July 2018, pp.101
- XV. **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
- XVI. **A Closely Located Dual-Band FSS Design for XBand Applications**  
ÜNALDI S., BODUR H., ÇİMEN S., ÇAKIR G.  
AIS 2017 • 12th International Symposium on Applied Informatics and Related Areas • November 9, 2017, 09 November 2017, pp.75-78
- XVII. **A NEW BROADBAND REFLECTARRAY ANTENNA WITH MODIFIED CIRCULAR PATCH**  
BODUR H., ÜNALDI S., ÇİMEN S., ÇAKIR G.  
5th International Conference on Advanced Technology Sciences (ICAT'xx17), İstanbul, Turkey, 9 - 12 May 2017, pp.517-519
- XVIII. **Design of X Band Single-Layer Reflectarray with Novel Element**  
ÜNALDI S., BODUR H., ÇİMEN S., ÇAKIR G.  
5th International Conference on Advanced Technology Sciences (ICAT'xx17), İstanbul, Turkey, 9 - 12 May 2017, pp.588-590
- XIX. **Partial Gain Increase at Desired Frequency Range for UWB Microstrip Antennas Using Band-Stop FSS**  
Komron H., DİKMEN C. M., ÇAKIR G., KOCAKAYA A., ÇİMEN S.  
5th International Conference on Advanced Technology Sciences (ICAT'xx17), İstanbul, Turkey, 9 - 12 May 2017
- XX. **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
- XXI. **A Novel Reflectarray Antenna Backed With Double Layer FSS for RCS Reduction**  
BODUR H., ÇİMEN S., ÇAKIR G., Unaldi S.  
International Applied-Computational-Electromagnetics-Society Symposium - Italy (ACES), Firenze, Italy, 26 - 30 March 2017
- XXII. **Ultra Wide Band Crescent Antenna with Enhanced Maximum Gain**  
DİKMEN C. M., ÇAKIR G., ÇİMEN S.  
20th International Symposium on Wireless Personal Multimedia Communications (WPMC), Yocyakarta, Indonesia, 17 - 20 December 2017, pp.276-279
- XXIII. **A Novel Reflectarray Antenna Combined with Double Layer FSS for RCS Reduction**  
BODUR H., Unaldi S., ÇİMEN S., ÇAKIR G.  
25th Telecommunication Forum (TELFOR), Belgrade, Serbia And Montenegro, 21 - 22 November 2017, pp.456-458
- XXIV. **Ultra Wide Band Butterfly Antenna With Enhanced Gain**  
DİKMEN C. M., ÇAKIR G., ÇİMEN S.

- Int. Conf. On Electrical Engineering and Computer Sciences (EECS 2016), Hong Kong, 14 - 16 December 2016
- XXV. **X Bant Uygulamalar için Tek Katmanlı Geniş Bant Yansıtıcı Dizi Anten Tasarımı**  
BODUR H., ÜNALDI S., ÇİMEN S., ÇAKIR G.  
URSI- Türkiye'2016 VIII. Bilimsel Kongresi, Ankara, Turkey, 1 - 03 September 2016
- XXVI. **A Novel Broadband Single Layer Reflectarray Antenna Design For X Band Applications**  
BODUR H., ÜNALDI S., ÇİMEN S., ÇAKIR G.  
ICENS 2016, 2nd International Conference on Engineering and Natural Sciences, Bosnahersek, 24 - 28 May 2016
- XXVII. **A reduced RCS ultra wide band antenna with eye geometry**  
DİKMEN C. M., ÇİMEN S., ÇAKIR G.  
2013 18th International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory, DIPED 2013, Lviv, Ukraine, 23 - 26 September 2013, pp.104-110
- XXVIII. **An octagonal shaped ultra wide band antenna with reduced RCS**  
DİKMEN C. M., ÇİMEN S., ÇAKIR G.  
2013 2nd International Japan-Egypt Conference on Electronics, Communications and Computers, JEC-ECC 2013, Cairo, Egypt, 17 - 19 December 2013, pp.121-124
- XXIX. **An Arrow Shaped Ultra Wide Band Antenna With Reduced RCS**  
DİKMEN C. M., ÇİMEN S., ÇAKIR G.  
IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), Amman, Jordan, 3 - 05 December 2013
- XXX. **Analytical & numerical calculations of S-parameters in multilayer DPS-DNG junctions**  
ÇİMEN S., ÇAKIR G., Sevgi L.  
20th International Zurich Symposium on Electromagnetic Compatibility, EMC Zurich 2009, Zürich, Switzerland, 12 - 16 January 2009, pp.113-116
- XXXI. **Metamaterials and FDTD based Numerical Modeling Studies**  
ÇİMEN S., ÇAKIR M., ÇAKIR G., SEVGİ L.  
ELECO 2007, Bursa, Turkey, 5 - 09 December 2007
- XXXII. **A Matlab-based Filter Design Tool Using the Analogy between Wave and Circuit Theories**  
Çakır G., Çimen S., Sevgi L.  
International Symposium on Complex Computing-Networks Location: Dogus Univ Istanbul, Istanbul, TURKEY Date: JUN 13-14, 2005, İstanbul, Turkey, 13 - 14 June 2005, pp.141-142

## Supported Projects

ÇAKIR G., ÇİMEN S., BODUR H., Project Supported by Higher Education Institutions, Mikrodalga ve Anten Laboratuvarı, 2019 - 2020

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

ÇAKIR G., ÇİMEN S., TUBITAK Project, Frekans Seçici Yüzey Fsy Arka Yüzlü Düşük Radar Kesit Alanlı Geniş Bant Mikroşerit Yansıtıcı Dizi Anten Yda Tasarımı, 2015 - 2017

Çimen S., Çakır M., Çakır G., TUBITAK Project, Ultra Geniş Bantlı UGB Radar Kesit Alanı Azaltılmış Mikroşerit Anten Tasarımı, 2011 - 2014

ÇİMEN S., Project Supported by Higher Education Institutions, Çok katmanlı kompozit radar yutucu tabaka (RYT) tasarımı ve gerçekleştirilmesi, 2010 - 2013

## Metrics

Publication: 56

Citation (WoS): 278

Citation (Scopus): 384

H-Index (WoS): 9

H-Index (Scopus): 9

### **Non Academic Experience**

CEM-Bialetti Ticaret A.Ş., Mühendis