

## Prof. Dr. BAHATTİN TÜRETKEN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAR-7679-2020

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Yoksis Araştırmacı ID: 145262

### Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik ve Haberleşme Mühendisliği, Türkiye 1998 - 2002

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik ve Haberleşme Mühendisliği, Türkiye 1995 - 1998

Lisans, Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Hab.Müh.Böl, Türkiye 1991 - 1995

### Araştırma Alanları

Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Prof. Dr., Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2019 - Devam Ediyor

Prof. Dr., Karabük Üniversitesi, -, 2014 - 2019

Doç. Dr., Yeditepe Üniversitesi, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2011 - 2013

Araştırma Görevlisi, Atatürk Üniversitesi, Mühendislik Fakültesi, 1995 - 1998

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

- I. **Compact and planar WCDMA/WLAN/UWB antenna with shorted loop and monopole elements**  
Yildirim B. S., Başaran E., Turetken B.  
Applied Computational Electromagnetics Society Journal, cilt.31, sa.3, ss.288-293, 2016 (SCI-Expanded)
- II. **A Novel 2-18-GHz Double-Ridged Horn Antenna with an Improved Feed Section Design**  
Isenlik T., Basaran E., Turetken B.  
ELECTROMAGNETICS, cilt.35, sa.3, ss.145-154, 2015 (SCI-Expanded)
- III. **A COMPACT DESIGN OF A WIDEBAND THREE LAYER U-SLOT STACKED PATCH ANTENNA**  
Surmeli K., Basaran E., Aksoy S., SALMAN A. O.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, cilt.57, sa.3, ss.727-729, 2015 (SCI-Expanded)
- IV. **Spherical conformal bow-tie antenna for ultra-wide band microwave imaging of breast cancer tumor**  
Ünal I., Turetken B., Canbay C.

- Applied Computational Electromagnetics Society Journal, cilt.29, sa.2, ss.124-133, 2014 (SCI-Expanded)
- V. **Dielectric-Loaded Compact WLAN/WCDMA Antenna With Shorted Loop and Monopole Elements**  
Yildirim B., Basaran E., Turetken B.  
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, cilt.12, ss.288-291, 2013 (SCI-Expanded)
- VI. **A simple synthesis of a high gain planar array antenna for volume scanning radars**  
TOKAN F., GÜNEŞ F., Turetken B., Surmeli K.  
Applied Computational Electromagnetics Society Journal, cilt.27, sa.3, ss.271-277, 2012 (SCI-Expanded)
- VII. **An Improved Design of Planar Elliptical Dipole Antenna for UWB Applications**  
Nazli H., Bicak E., Turetken B., Sezgin M.  
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, cilt.9, ss.264-267, 2010 (SCI-Expanded)
- VIII. **Experimental and numerical analysis of the coupling mechanism of HF antenna located on shipboard**  
Turetken B., Ustuner F., Demirel E., Baran E.  
INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, cilt.27, ss.153-159, 2008 (SCI-Expanded)
- IX. **Analysis of dielectric loaded scalar horn radiators**  
Turetken B.  
Applied Computational Electromagnetics Society Journal, cilt.22, sa.3, ss.388-394, 2007 (SCI-Expanded)
- X. **Numerical and experimental study of F-4 aircraft antenna patterns**  
Turetken B., Ustuner F., Dagdeviren A.  
INTERNATIONAL JOURNAL OF ELECTRONICS, cilt.94, sa.3, ss.293-301, 2007 (SCI-Expanded)
- XI. **Mutual coupling between monopoles on F-4 aircraft at transition frequencies: A comparison between MoM and MoM/UTD hybrid method at UHF band**  
Dagdeviren A., Cerezci O., Ustuner F., Turetken B.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, cilt.21, sa.2, ss.111-114, 2006 (SCI-Expanded)
- XII. **Rigorous analysis of wide beam scalar feed horns with different impedance internal surfaces**  
Turetken B.  
ELECTROMAGNETICS, cilt.26, sa.5, ss.359-385, 2006 (SCI-Expanded)
- XIII. **An alternative method for determining the antenna factor of a monopole**  
Turetken B.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, cilt.20, sa.3, ss.231-234, 2005 (SCI-Expanded)
- XIV. **Plane wave diffraction by impedance planar surfaces with a step discontinuity**  
Turetken B., Yildirim O.  
ELECTROMAGNETICS, cilt.24, sa.8, ss.623-635, 2004 (SCI-Expanded)
- XV. **Radiation of sound waves from a rigid stepped cylindrical waveguide**  
Turetken B., Büyükaksoy A., Demir A.  
Journal of Engineering Mathematics, cilt.46, sa.1, ss.33-54, 2003 (SCI-Expanded)
- XVI. **Plane wave diffraction by a dielectric loaded open parallel thick plate waveguide**  
Turetken B., Alkumru A.  
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.10, sa.3, ss.439-448, 2002 (SCI-Expanded)
- XVII. **Plane wave diffraction by an open parallel plate waveguide with dielectric loading**  
Turetken B., Alkumru A.  
Mathematical and Computational Applications, cilt.4, sa.1, ss.241-249, 1999 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Diffraction from a grating on a chiral medium: Application of analytical regularization method**  
Panin S. B., Turetken B., Poyedinchuk A. Y., Tuchkin Y. A.  
Progress In Electromagnetics Research B, sa.59, ss.19-29, 2014 (Scopus)

- II. **U Slot Stacked Patch Antenna using high and low dielectric constant material combination in S Band**  
TÜRETKEN B., Surmeli K.  
General Assembly and Scientific Symposium, 2011 (Hakemli Dergi)
- III. **Reconfigurable fractal tree antenna for multiband applications**  
Altun H., Korkmaz E., TÜRETKEN B.  
General Assembly and Scientific Symposium, ss.1-4, 2011 (Hakemli Dergi)
- IV. **Design and realization of printed LPDA in UHF band**  
TÜRETKEN B.  
Mathematical Methods in Electromagnetic Theory, 2004 (Hakemli Dergi)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Su Buharı ve Tuzluluk Algılaması İçin Dicke Radyometresi Tasarımı**  
Koçyigit A., Türetken B.  
URSI-TÜRKİYE 2023 XI. Bilimsel Kongresi, Boğaziçi Üniversitesi, İstanbul, İstanbul, Türkiye, 31 Ağustos - 02 Eylül 2023, cilt.1, sa.1, ss.1-3
- II. **Design of An Implantable Antenna for ISM and WMTS Band Biomedical Applications**  
Hasen Ahmed M. A. W., TÜRETKEN B., Ünal İ.  
COMPUTATIONAL METHODS AND TELECOMMUNICATION IN ELECTRICAL ENGINEERING AND FINANCE, Sarajevo, Bosna-Hersek, 6 - 09 Mayıs 2018, cilt.1, ss.58-59
- III. **Microwave Imaging of Breast Cancer Tumor Using Vivaldi Antenna**  
Ünal İ., TÜRETKEN B.  
COMPUTATIONAL METHODS AND TELECOMMUNICATION IN ELECTRICAL ENGINEERING AND FINANCE, Sarajevo, Bosna-Hersek, 6 - 09 Mayıs 2018, cilt.1, ss.26-27
- IV. **Türk Teknolojisi ama Nasıl**  
TÜRETKEN B.  
TC Basbakanlık Yurt Dışı Türkler -Sehirder -Türkiye Bursları, 06 Kasım 2016
- V. **Yeni Türkiye'nin Teknoloji Hedefleri**  
TÜRETKEN B.  
Uluslararası Bilim ve Teknoloji Konferansı, 3 - 06 Ekim 2016, cilt.22, ss.349-350
- VI. **Yeni Türkiye ve Elektronik Harp**  
TÜRETKEN B.  
EEB2016, Türkiye, 11 - 13 Mayıs 2016
- VII. **Türkiye'nin Teknolojik Atılımları ve 2023 Vizyonu Liderin Rolü**  
TÜRETKEN B.  
Uluslararası Recep Tayyip Erdoğan Sempozyumu, 27 - 28 Mart 2016, cilt.1, ss.107-111
- VIII. **Custom gland and skin tissue phantom fabrication for use in breast cancer detection research studies**  
Sayinti A., Türetken B., Açıklan E., Çoban K., Eroğlu H.  
31st General Assembly and Scientific Symposium of the International Union of Radio Science, URSI GASS 2014, Beijing, Çin, 16 - 23 Ağustos 2014
- IX. **Microwave imaging of breast cancer tumor inside voxel-based breast phantom using conformal antennas**  
Ünal İ., Türetken B., Çotur Y.  
31st General Assembly and Scientific Symposium of the International Union of Radio Science, URSI GASS 2014, Beijing, Çin, 16 - 23 Ağustos 2014
- X. **Analysis of dispersive effects of breast phantom model on ultra wideband microwave imaging of breast cancer tumor**  
Ünal İ., Türetken B., Buluş U., Canbay C.  
10th IASTED International Conference on Biomedical Engineering, BioMed 2013, Innsbruck, Avusturya, 13 - 15

Şubat 2013, ss.401-406

- XI. **Analysis of the electromagnetic field scattered by a spherical breast tumour model**  
Unal I., Turetken B., Bulus U., Canbay C.  
2013 21st International Symposium on Electromagnetic Theory, EMTS 2013, Hiroshima, Japonya, 20 - 24 Mayıs 2013, ss.574-577
- XII. **Analysis of vibration effects on surface matched cylindrical IFF array antenna**  
Turetken B., Celik M.  
2013 7th European Conference on Antennas and Propagation, EuCAP 2013, Gothenburg, İsveç, 8 - 12 Nisan 2013, ss.2731-2735
- XIII. **DETECTION OF HIDDEN METALLIC TARGETS BY RADIOMETRIC SYSTEM AND LOW ABERRATION LENS DESIGN**  
Panin S. B., Tekbas M., Turetken B.  
International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves (MSMW), Kharkiv, Ukrayna, 23 - 28 Haziran 2013, ss.91-93
- XIV. **Millimeter Wave Detection of Landmines**  
Ozturk H., Nazli H., Yegin K., Bicak E., Sezgin M., Dag M., SALMAN A. O.  
Conference on Detection and Sensing of Mines, Explosive Objects, and Obscured Targets XVIII, Maryland, Amerika Birleşik Devletleri, 29 Nisan - 02 Mayıs 2013, cilt.8709
- XV. **A Novel Ultra Wideband horn feed for parabolic reflector antennas**  
Isenlik T., Başaran E., Turetken B.  
2012 IEEE International Conference on Ultra-Wideband, ICUWB 2012, Syracuse, NY, Amerika Birleşik Devletleri, 17 - 20 Eylül 2012, ss.513-517
- XVI. **Development of a hyperthermia applicator with compact microstrip antennas**  
Isik O., Korkmaz E., Kara S., Nassor M. A., Turetken B.  
Joint 2012 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, APSURSI 2012, Chicago, IL, Amerika Birleşik Devletleri, 8 - 14 Temmuz 2012
- XVII. **Design of compact microstrip antennas embedded in water bolus for hyperthermia applications**  
Korkmaz E., Nassor M. A., Kara S., Isik O., Turetken B.  
Joint 2012 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, APSURSI 2012, Chicago, IL, Amerika Birleşik Devletleri, 8 - 14 Temmuz 2012
- XVIII. **Simulation of a conformal reconfigurable fractal tree antenna with adaptive multi beam and frequency characteristics**  
Altun H., Korkmaz E., Turetken B.  
Progress in Electromagnetics Research Symposium, PIERS 2011 Suzhou, Suzhou, Çin, 12 - 16 Eylül 2011, ss.619-623
- XIX. **Design and realization of ultra wide-band implant antenna for biotelemetry systems**  
Zengin F., Akkaya E., Turetken B., San S. E.  
2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Türkiye, 13 - 20 Ağustos 2011
- XX. **U-slot stacked patch antenna using high and low dielectric constant material combinations in S-band**  
Sürmeli K., Turetken B.  
2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Türkiye, 13 - 20 Ağustos 2011
- XXI. **Antenna arrangement considerations for microwave hyperthermia applications**  
Işık Ö., Korkmaz E., Turetken B.  
2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Türkiye, 13 - 20 Ağustos 2011
- XXII. **Analyzing of the feed line and the shroud effects on a reflector antenna performance**  
Gürcan M. E., Başaran E., Turetken B.  
2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Türkiye, 13 - 20 Ağustos 2011

- XXIII. **An experimental microwave imaging system for breast tumor detection on layered phantom model**  
Ünal I., Türetken B., Sürmeli K., Canbay C.  
2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Türkiye, 13 - 20 Ağustos 2011
- XXIV. **Design of a Broadband Microstrip Antenna with ArtificialMagnetic Conductor Ground Plane**  
Çekingen M., IŞIK C., TÜRETKEN B.  
ELECO 2011 7th International Conference on Electrical and Electronics Engineering, 1 - 03 Ekim 2011
- XXV. **Ultra wideband antenna design for implant applications Ekit (implant) uygulamalari için geniş bantli anten tasarimi**  
Zengin F., Türetken B., Akkaya E., San S. E.  
2010 15th National Biomedical Engineering Meeting, BIYOMUT2010, Antalya, Türkiye, 21 - 24 Nisan 2010
- XXVI. **High frequency diffraction of cylindrical waves by perfectly conducting successive step discontinuities**  
Türetken B., Alkumru A., Büyükaksoy A., Kuştepelı A.  
11th International Conference on Mathematical Methods in Electromagnetic Theory, MMET'06, Kharkiv, Ukrayna, 26 - 29 Haziran 2006, ss.523-525
- XXVII. **EMI/EMC analysis of shipboard HF antenna by moment method**  
Turetken B., Ustuner F., Demirel E., Dagdeviren A.  
11th International Conference on Mathematical Methods in Electromagnetic Theory, MMET'06, Kharkiv, Ukrayna, 26 - 29 Haziran 2006, ss.350-352
- XXVIII. **A study of the blockage effects on the pattern of ship mounted X-band communication antennas**  
Dagdeviren A., Cerezci O., Turetken B.  
11th International Conference on Mathematical Methods in Electromagnetic Theory, MMET'06, Kharkiv, Ukrayna, 26 - 29 Haziran 2006, ss.353-355
- XXIX. **Coupling on complex platforms: A comparison between MoM and MoM/UTD hybrid method**  
Dagdeviren A., Cerezci O., Ustuner F., Turetken B., Kahrıman M.  
11th International Conference on Mathematical Methods in Electromagnetic Theory, MMET'06, Kharkiv, Ukrayna, 26 - 29 Haziran 2006, ss.276-278
- XXX. **Monopole antenna calibration in GTEM cell**  
Turetken B.  
10th International Conference on Mathematical Methods in Electromagnetic Theory, Dnepropetrovsk, Ukrayna, 14 - 17 Eylül 2004, ss.298-300
- XXXI. **Design and realization of Printed LPDA at UHF band**  
Turetken B.  
10th International Conference on Mathematical Methods in Electromagnetic Theory, Dnepropetrovsk, Ukrayna, 14 - 17 Eylül 2004, ss.295-297
- XXXII. **Design and realization of an L-Band helical antenna**  
Turetken B., Yurekli A., Yazici M.  
IEEE International Symposium on Electromagnetic Compatibility (EMC), İstanbul, Türkiye, 11 - 16 Mayıs 2003, ss.143-145
- XXXIII. **Calculation of leakage through apertures on coaxial cable braided screens**  
Colak B., Qerezci O., Demir Z., Yazici M., SALMAN A. O., Araz I.  
International Conference on Mathematical Methods in Electromagnetic Theory (MMET 02), KIEV, Ukrayna, 10 - 13 Eylül 2002, ss.473-475
- XXXIV. **Evaluation of uncertainty budget for antenna calibrations**  
Turetken B., San S. E., Yazici M., Araz I., Yurekli A., Hekim M.  
International Conference on Mathematical Methods in Electromagnetic Theory (MMET 02), KIEV, Ukrayna, 10 - 13 Eylül 2002, ss.455-457
- XXXV. **Comparison of symbolic computation techniques for problems in electromagnetics**  
Turetken B., San S. E.  
International Conference on Mathematical Methods in Electromagnetic Theory (MMET 2000), Kharkiv, Ukrayna, 12

- 15 Eylül 2000, ss.172-174

**XXXVI. A new numerical approach to electromagnetics: Finite-analytic method**

Utku C., Turetken B.

International Conference on Mathematical Methods in Electromagnetic Theory (MMET 2000), Kharkiv, Ukrayna, 12

- 15 Eylül 2000, ss.667-669

## **Metrikler**

Yayın: 64

Atıf (WoS): 130

Atıf (Scopus): 245

H-İndeks (WoS): 5

H-İndeks (Scopus): 7

## **Ödüller**

Turetken B., JÜRİ ÖZEL ÖDÜLÜ, Avrupa Türk Basın Yayın Gazeteciler Birliği , Aralık 2023

## **Akademi Dışı Deneyim**

NATO SPS-ISEG, Science for Peace and Security, Independent Scientific Evaluation Group

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