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International Researcher IDs

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

ScopusID: 55900364900

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik ve Haberleşme Mühendisliği, Turkey 1998 - 2002

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik ve Haberleşme Mühendisliği, Turkey 1995 - 1998

Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, Turkey 1991 - 1995

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2019 - Continues

Professor, Karabuk University, -, 2014 - 2019

Associate Professor, Yeditepe University, Faculty Of Engineering-Architecture, Department Of Electrical And Electronics Engineering, 2011 - 2013

Research Assistant, Ataturk University, Mühendislik Fakültesi, 1995 - 1998

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Compact and planar WCDMA/WLAN/UWB antenna with shorted loop and monopole elements**
Yildirim B. S., Başaran E., Türetken B.
Applied Computational Electromagnetics Society Journal, vol.31, no.3, pp.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, vol.35, no.3, pp.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, vol.57, no.3, pp.727-729, 2015 (SCI-Expanded)

- IV. **Spherical conformal bow-tie antenna for ultra-wide band microwave imaging of breast cancer tumor**
Ünal I., Türetken B., Canbay C.
Applied Computational Electromagnetics Society Journal, vol.29, no.2, pp.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, vol.12, pp.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, vol.27, no.3, pp.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, vol.9, pp.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, vol.27, pp.153-159, 2008 (SCI-Expanded)
- IX. **Analysis of dielectric loaded scalar horn radiators**
Türetken B.
Applied Computational Electromagnetics Society Journal, vol.22, no.3, pp.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, vol.94, no.3, pp.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, vol.21, no.2, pp.111-114, 2006 (SCI-Expanded)
- XII. **Rigorous analysis of wide beam scalar feed horns with different impedance internal surfaces**
Turetken B.
ELECTROMAGNETICS, vol.26, no.5, pp.359-385, 2006 (SCI-Expanded)
- XIII. **An alternative method for determining the antenna factor of a monopole**
Turetken B.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.20, no.3, pp.231-234, 2005 (SCI-Expanded)
- XIV. **Plane wave diffraction by impedance planar surfaces with a step discontinuity**
Turetken B., Yildirim O.
ELECTROMAGNETICS, vol.24, no.8, pp.623-635, 2004 (SCI-Expanded)
- XV. **Radiation of sound waves from a rigid stepped cylindrical waveguide**
Türetken B., Büyükaksoy A., Demir A.
Journal of Engineering Mathematics, vol.46, no.1, pp.33-54, 2003 (SCI-Expanded)
- XVI. **Plane wave diffraction by a dielectric loaded open parallel thick plate waveguide**
Türetken B., Alkumru A.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.10, no.3, pp.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, vol.4, no.1, pp.241-249, 1999 (SCI-Expanded)

Articles Published in Other Journals

- 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, no.59, pp.19-29, 2014 (Scopus)

- II. **U Slot Stacked Patch Antenna using high and low dielectric constant material combination in SBand**
TÜRETKEN B., Surmeli K.
General Assembly and Scientific Symposium, 2011 (Peer-Reviewed Journal)
- III. **Reconfigurable fractal tree antenna for multiband applications**
altun h., Korkmaz E., TÜRETKEN B.
General Assembly and Scientific Symposium, pp.1-4, 2011 (Peer-Reviewed Journal)
- IV. **Design and realization of printed LPDA in UHF band**
TÜRETKEN B.
Mathematical Methods in Electromagnetic Theory, 2004 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Su Buharı ve Tuzluluk Algılaması İçin Dicke Radyometresi Tasarımı**
Koçyiğit A., Turetken B.
URSI-TÜRKİYE 2023 XI. Bilimsel Kongresi, Boğaziçi Üniversitesi, İstanbul, İstanbul, Turkey, 31 August - 02 September 2023, vol.1, no.1, pp.1-3
- II. **Design of An Implantable Antenna for ISM and WMTS Band Biomedical Applications**
Hasen Ahmed M. A. W., TÜRETKEN B., Ünal i.
COMPUTATIONAL METHODS AND TELECOMMUNICATION IN ELECTRICAL ENGINEERING AND FINANCE, Sarajevo, Bosnia And Herzegovina, 6 - 09 May 2018, vol.1, pp.58-59
- III. **Microwave Imaging of Breast Cancer Tumor Using Vivaldi Antenna**
Ünal i., TÜRETKEN B.
COMPUTATIONAL METHODS AND TELECOMMUNICATION IN ELECTRICAL ENGINEERING AND FINANCE, Sarajevo, Bosnia And Herzegovina, 6 - 09 May 2018, vol.1, pp.26-27
- IV. **Türk Teknolojisi ama Nasıl**
TÜRETKEN B.
TC Basbakanlık Yurt Dışı Türkler -Şehirler -Türkiye Bursları, 06 November 2016
- V. **Yeni Türkiye nin Teknoloji Hedefleri**
TÜRETKEN B.
Uluslararası Bilim ve Teknoloji Konferansı, 3 - 06 October 2016, vol.22, pp.349-350
- VI. **Yeni Türkiye ve Elektronik Harp**
TÜRETKEN B.
EEB2016, Turkey, 11 - 13 May 2016
- VII. **Türkiye nin Teknolojik Atılımları ve 2023 Vizyonu Liderin Rolü**
TÜRETKEN B.
Uluslararası Recep Tayyip Erdoğan Sempozyumu, 27 - 28 March 2016, vol.1, pp.107-111
- VIII. **Custom gland and skin tissue phantom fabrication for use in breast cancer detection research studies**
Sayinti A., Turetken B., Açikalin E., Çoban K., Eroğlu H.
31st General Assembly and Scientific Symposium of the International Union of Radio Science, URSI GASS 2014, Beijing, China, 16 - 23 August 2014
- IX. **Microwave imaging of breast cancer tumor inside voxel-based breast phantom using conformal antennas**
Ünal I., Turetken B., Çotur Y.
31st General Assembly and Scientific Symposium of the International Union of Radio Science, URSI GASS 2014, Beijing, China, 16 - 23 August 2014
- X. **Analysis of dispersive effects of breast phantom model on ultra wideband microwave imaging of breast cancer tumor**

Ünal I, Türetken B., Buluş U., Canbay C.

10th IASTED International Conference on Biomedical Engineering, BioMed 2013, Innsbruck, Austria, 13 - 15 February 2013, pp.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, Japan, 20 - 24 May 2013, pp.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, Sweden, 8 - 12 April 2013, pp.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, Ukraine, 23 - 28 June 2013, pp.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, United States Of America, 29 April - 02 May 2013, vol.8709
- XV. **A Novel Ultra Wideband horn feed for parabolic reflector antennas**
Isenlik T., Başaran E., Türetken B.
2012 IEEE International Conference on Ultra-Wideband, ICUWB 2012, Syracuse, NY, United States Of America, 17 - 20 September 2012, pp.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, United States Of America, 8 - 14 July 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, United States Of America, 8 - 14 July 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, China, 12 - 16 September 2011, pp.619-623
- XIX. **Design and realization of ultra wide-band implant antenna for biotelemetry systems**
Zengin F., Akkaya E., Türetken B., San S. E.
2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Turkey, 13 - 20 August 2011
- XX. **U-slot stacked patch antenna using high and low dielectric constant material combinations in S-band**
Sürmeli K., Türetken B.
2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Turkey, 13 - 20 August 2011
- XXI. **Antenna arrangement considerations for microwave hyperthermia applications**
Işık Ö., Korkmaz E., Türetken B.
2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Turkey, 13 - 20 August 2011
- XXII. **Analyzing of the feed line and the shroud effects on a reflector antenna performance**
Gürcan M. E., Başaran E., Türetken B.

- 2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Turkey, 13 - 20 August 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, Turkey, 13 - 20 August 2011
- XXIV. **Design of a Broadband Microstrip Antenna with Artificial Magnetic Conductor Ground Plane**
Çekingen M., IŞIK C., TÜRETKEN B.
ELECO 2011 7th International Conference on Electrical and Electronics Engineering, 1 - 03 October 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, Turkey, 21 - 24 April 2010
- XXVI. **High frequency diffraction of cylindrical waves by perfectly conducting successive step discontinuities**
Türetken B., Alkumru A., Büyükkaksoy A., Kuştepe A.
11th International Conference on Mathematical Methods in Electromagnetic Theory, MMET'06, Kharkiv, Ukraine, 26 - 29 June 2006, pp.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, Ukraine, 26 - 29 June 2006, pp.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, Ukraine, 26 - 29 June 2006, pp.353-355
- XXIX. **Coupling on complex platforms: A comparison between MoM and MoM/UTD hybrid method**
Dagdeviren A., Cerezci O., Ustuner F., Turetken B., Kahrman M.
11th International Conference on Mathematical Methods in Electromagnetic Theory, MMET'06, Kharkiv, Ukraine, 26 - 29 June 2006, pp.276-278
- XXX. **Monopole antenna calibration in GTEM cell**
Turetken B.
10th International Conference on Mathematical Methods in Electromagnetic Theory, Dnepropetrovsk, Ukraine, 14 - 17 September 2004, pp.298-300
- XXXI. **Design and realization of Printed LPDA at UHF band**
Turetken B.
10th International Conference on Mathematical Methods in Electromagnetic Theory, Dnepropetrovsk, Ukraine, 14 - 17 September 2004, pp.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, Turkey, 11 - 16 May 2003, pp.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, Ukraine, 10 - 13 September 2002, pp.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, Ukraine, 10 - 13 September 2002, pp.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, Ukraine, 12
- 15 September 2000, pp.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, Ukraine, 12
- 15 September 2000, pp.667-669

Metrics

Publication: 64

Citation (WoS): 130

Citation (Scopus): 245

H-Index (WoS): 5

H-Index (Scopus): 7

Awards

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

Non Academic Experience

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

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