

## Prof. GÖKHAN ÇINAR

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-8352-2020

ScopusID: 6603381342

Yoksis Researcher ID: 35397

### Education Information

Doctorate, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Ve Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (Dr), Turkey 2001 - 2004

Postgraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1999 - 2001

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1993 - 1998

### Dissertations

Doctorate, Düzlemsel elektromagnetik dalgaların paralel empedans yarım-düzlem sistemlerinden kırınımı, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Ve Fen Bilimleri Enstitüsü, Elektronik Mühendisliği (Dr), 2004

Postgraduate, Bir empedans düzlemle sınırlandırılmış yarım uzayda bir yarıktan düzlemsel dalgaların kırınımı, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2001

### Research Areas

Electromagnetic Waves, Antennas and Propagation

### Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2016 - Continues

Associate Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2015 - 2016

Associate Professor, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Elektronik Mühendisliği Bölümü, 2010 - 2015

Assistant Professor, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Elektronik Mühendisliği Bölümü, 2004 - 2010

Research Assistant, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Elektronik Mühendisliği Bölümü, 1999 -

## Academic and Administrative Experience

- Head of Department, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2015 - Continues
- Head of Department, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2020 - 2023
- Deputy Head of Department, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Elektrik-Elektronik Mühendisliği Bölümü, 2016 - 2020
- Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Elektronik Mühendisliği Bölümü, 2012 - 2014

## Courses

- Wireless Communications, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
- Electromagnetics II, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
- Advanced Electromagnetic Theory, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
- Electromagnetics I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
- Diffraction Theory, Doctorate, 2018 - 2019
- Antenna Theory, Undergraduate, 2018 - 2019
- Analytical Methods in Electromagnetic Theory, Postgraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015
- Satellite Communication Systems, Undergraduate, 2016 - 2017, 2015 - 2016
- Microwave Techniques, Undergraduate, 2016 - 2017, 2015 - 2016

## Advising Theses

- Çınar G., Analysis of parallel plate waveguides with nonperiodically corrugated walls, Postgraduate, B.ABANUZOĞLU(Student), 2023
- Çınar G., Substrat tümleşik dalga kılavuzu temelli çift bantlı bant geçiren filtre tasarımı, Postgraduate, A.YAYLACI(Student), 2023
- Çınar G., Substrat tümleşik dalga kılavuzu temelli çift bantlı anten tasarımı, Postgraduate, E.ASLAN(Student), 2023
- Çınar G., Analysis of SIW Beamforming Systems for 5G Applications, Doctorate, M.MATAR(Student), 2020
- ÇINAR G., Scattering of a TEM wave by a large circumferential gap on a hollow and a dielectric-filled coaxial waveguides, Doctorate, H.ÖZTÜRK(Student), 2015
- Çınar G., TEM wave propagation in coaxial waveguides with step discontinuity, Doctorate, S.AKŞİMŞEK(Student), 2014
- Çınar G., Zaman uzayında RWG fonksiyonları ile uyarılmış manyetik alanın analitik ifadesi, Postgraduate, A.ÜLKÜ(Student), 2008

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

- I. **RIGOROUS ANALYSIS OF TM WAVE SCATTERING BY A LARGE CIRCUMFERENTIAL GAP ON A DIELECTRIC-FILLED CIRCULAR WAVEGUIDE**  
ÖZTÜRK H., ÇINAR G., YANAZ ÇINAR Ö.  
UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, vol.80, no.2, pp.301-310, 2018 (SCI-Expanded)
- II. **Sudden area expansion in ducts with flow - A comparison between cylindrical and rectangular modelling**

YANAZ ÇINAR Ö., Boij S., ÇINAR G., Nilsson B.

JOURNAL OF SOUND AND VIBRATION, vol.396, pp.307-324, 2017 (SCI-Expanded)

- III. **TEM wave radiation from a dielectric-filled coaxial waveguide with a large circumferential gap on its outer wall**  
Ozturk H., ÇINAR G., YANAZ ÇINAR Ö.  
ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK, vol.66, no.4, pp.1299-1313, 2015 (SCI-Expanded)
- IV. **Dispersion Modeling and Analysis for Multilayered Open Coaxial Waveguides**  
Nordebo S., ÇINAR G., Gustafsson S., Nilsson B.  
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.63, no.6, pp.1791-1799, 2015 (SCI-Expanded)
- V. **Electromagnetic Dispersion Modeling and Measurements for HVDC Power Cables**  
Gustafsson S., Biro T., ÇINAR G., Gustafsson M., Karlsson A., Nilsson B., Nordebo S., Sjoberg M.  
IEEE TRANSACTIONS ON POWER DELIVERY, vol.29, no.6, pp.2439-2447, 2014 (SCI-Expanded)
- VI. **Asymptotic analysis of non-discrete radiating modes for open waveguide structures**  
Nordebo S., ÇINAR G., Gustafsson S., Ioannidis A., Nilsson B.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.37, no.2, pp.251-256, 2014 (SCI-Expanded)
- VII. **Low-frequency dispersion characteristics of a multilayered coaxial cable**  
Nordebo S., Nilsson B., Gustafsson S., Biro T., ÇINAR G., Gustafsson M., Karlsson A., Sjoberg M.  
JOURNAL OF ENGINEERING MATHEMATICS, vol.83, no.1, pp.169-184, 2013 (SCI-Expanded)
- VIII. **TEM Wave Scattering by a Step Discontinuity on the Outer Wall of a Coaxial Waveguide**  
Aksimsek S., Cinar G., Nilsson B., Nordebo S.  
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.61, no.8, pp.2783-2791, 2013 (SCI-Expanded)
- IX. **Scattering of a TEM wave by a large circumferential gap on a coaxial waveguide**  
Ozturk H., Cinar G.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.27, no.5, pp.615-628, 2013 (SCI-Expanded)
- X. **Reflection and transmission of plane acoustic waves in an infinite annular duct with a finite gap on the inner wall**  
Cinar G., Ozturk H., YANAZ ÇINAR Ö.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.34, no.2, pp.220-230, 2011 (SCI-Expanded)
- XI. **Line source scattering by a cylindrically curved surface with second-order generalized impedance boundary condition**  
Buyukaksoy A., Cinar G.  
WAVE MOTION, vol.47, no.1, pp.45-58, 2010 (SCI-Expanded)
- XII. **Wiener-Hopf Analysis of Plane Wave Diffraction by an Impedance Strip Attached on a Perfectly Conducting Half-Plane**  
Cinar G.  
ELECTROMAGNETICS, vol.29, no.2, pp.165-184, 2009 (SCI-Expanded)
- XIII. **A hybrid method for the solution of plane wave diffraction by an impedance loaded parallel plate waveguide**  
Cinar G., Buyukaksoy A.  
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.60, pp.293-310, 2006 (SCI-Expanded)
- XIV. **Solution of a matrix Wiener-Hopf equation connected with the plane wave diffraction by an impedance loaded parallel plate waveguide**  
Buyukaksoy A., Cinar G.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.28, no.14, pp.1633-1645, 2005 (SCI-Expanded)
- XV. **Scattering of plane waves by the junction of transmissive and soft-hard half-planes**  
Buyukaksoy A., Cinar G., SERBEST A.  
ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK, vol.55, no.3, pp.483-499, 2004 (SCI-Expanded)
- XVI. **Plane wave diffraction by a slit in an impedance plane and a complementary impedance strip**  
Cinar G., Buyukaksoy A.

- RADIO SCIENCE, vol.39, no.2, 2004 (SCI-Expanded)
- XVII. **Diffraction of a normally incident plane wave by three parallel half-planes with different face impedances**  
Cinar G., Buyukaksoy A.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.52, no.2, pp.478-486, 2004 (SCI-Expanded)
- XVIII. **Diffraction of plane waves by an acoustically penetrable strip located between two soft/hard half-planes**  
Cinar G., Buyukaksoy A.  
ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK, vol.83, no.6, pp.384-396, 2003 (SCI-Expanded)
- XIX. **Diffraction by a thick impedance half-plane with a different end face impedance**  
Cinar G., Buyukaksoy A.  
ELECTROMAGNETICS, vol.22, no.7, pp.565-580, 2002 (SCI-Expanded)
- XX. **Diffraction by a set of three parallel impedance half-planes with the one amidst located in the opposite direction**  
Cinar G., Buyukaksoy A.  
CANADIAN JOURNAL OF PHYSICS, vol.80, no.8, pp.893-909, 2002 (SCI-Expanded)
- XXI. **Plane wave diffraction by tandem impedance slits - Abstract**  
Polat B., Buyukaksoy A., Cinar G.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.15, no.10, pp.1363-1364, 2001 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Rigorous Analysis of a 26-GHz hybrid SIW coupler with Mode Matching Technique**  
MATAR M. A. I., ÇINAR G., YANAZ ÇINAR Ö.  
Journal of Engineering Research and Reports, vol.22, no.12, pp.56-66, 2022 (Peer-Reviewed Journal)
- II. **Analysis of SIW Crossover for 5G Beamforming Network Applications**  
Matar M. A. I., Çinar G., Yanaz Çinar Ö.  
International Journal of Engineering and Technology, vol.11, no.1, pp.50-58, 2022 (Peer-Reviewed Journal)
- III. **High frequency scattering by a second order generalized impedance discontinuity in a cylindrically curved surface**  
ÇINAR G., BÜYÜKAKSOY İ. A.  
Progress In Electromagnetics Research B, vol.38, no.1, pp.165-188, 2012 (Scopus)

## Books & Book Chapters

- I. **Kompleks Değişkenli Fonksiyonlar Teorisi Çözümlü Problemler**  
UZGÖREN M. G., ÇINAR G.  
İTÜ Vakfı Yayınları, İstanbul, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **A Low Pass Filter Design in Circular Acoustic Ducts**  
Koç İ., Yanaz Çinar Ö., Çinar G.  
3rd International Congress of Engineering and Natural Sciences Studies, Ankara, Turkey, 24 - 25 May 2023, pp.111
- II. **Analysis of Two Successive Expansion Chambers in a Circular Duct**  
Koç İ., Yanaz Çinar Ö., Çinar G.  
9th International Congress on Engineering and Technology, İstanbul, Turkey, 29 April - 01 May 2023, pp.485-492
- III. **TE Wave Propagation along a Circular Waveguide with a Finite Impedance Wall**

- ÇINAR G., YANAZ ÇINAR Ö., MATAR M. A. I.  
5. International Conference on Life and Engineering Sciences (ICOLES 2022), Antalya, Turkey, 19 May 2022
- IV. **TE Wave Propagation in Parallel-Plate Waveguides with Nonperiodically Corrugated Walls**  
ABANUZOĞLU H. B., ÇINAR G.  
5. International Conference on Life and Engineering Sciences (ICOLES 2022), Antalya, Turkey, 19 May 2022
- V. **Semi-infinite Jet Pipe Problem Revisited**  
YANAZ ÇINAR Ö., ÇINAR G.  
5. International Conference on Life and Engineering Sciences (ICOLES 2022), Antalya, Turkey, 19 May 2022
- VI. **A circular slotted SIW antenna for 5G applications**  
MATAR M. A. I., ÇINAR G.  
2021 IEEE Indian Conference on Antennas and Propagation (InCAP), Jaipur, India, 13 December 2021, pp.252-254
- VII. **Analysis of SIW Phase Shifter Types with Mode Matching Technique (MMT)**  
Matar M. A., ÇINAR G., YANAZ ÇINAR Ö.  
International Conference on Radar, Antenna, Microwave, Electronics, and Telecommunications (ICRAMET) - Emerging Science and Industrial Innovation in Electronics and Telecommunication, ELECTR NETWORK, 6 - 07 December 2022, pp.16-19
- VIII. **A novel two Green functions method for the identification of sources located in a hemisphere**  
ALKUMRU A., ÜLKÜ H. A., ÇINAR G., Vatansever S., Sertlek H.  
Progress in Electromagnetics Research Symposium (PIERS), St. Petersburg, Russia, 22 - 25 May 2017, pp.1636
- IX. **A Double Green Function Method for an Inverse Source Problem Related to a Hemisphere**  
Vatansever S., Alkumru A., Sertlek H., ÜLKÜ H. A., ÇINAR G.  
International Applied-Computational-Electromagnetics-Society Symposium - Italy (ACES), Firenze, Italy, 26 - 30 March 2017
- X. **Mode matching analysis of TEM wave reflection by a junction of perfectly conducting and impedance coaxial waveguides**  
YANAZ ÇINAR Ö., ÇINAR G., AKŞİMŞEK H. S.  
Progress In Electromagnetics Research Symposium (PIERS) 2015, PRAG, Czech Republic, 6 - 09 July 2015
- XI. **Wiener Hopf analysis of TM wave reflection by a step discontinuity on the junction of two coaxial waveguides with perfectly conducting and impedance walls**  
ÇINAR G., AKŞİMŞEK H. S., NILSSON B., NORDEBO S., YANAZ ÇINAR Ö.  
Progress In Electromagnetics Research Symposium (PIERS) 2015, PRAG, Czech Republic, 6 - 09 July 2015
- XII. **Reflection of TEM waves by a step discontinuity on the inner wall of a coaxial waveguide**  
ÇINAR G., AKŞİMŞEK H. S., NILSSON B., NORDEBO S., YANAZ ÇINAR Ö.  
34th Progress In Electromagnetics Research Symposium, Stockholm, Sweden, 12 - 15 August 2013
- XIII. **Completeness and biorthogonality for lossy closed waveguide modes**  
NILSSON B., ANDERSSON A., ÇINAR G., IOANNIDIS A., NORDEBO S.  
34th Progress In Electromagnetics Research Symposium, Stockholm, Sweden, 12 - 15 August 2013
- XIV. **Wiener Hopf approach for scattering of TM wave by a circumferential gap on a cylindrical waveguide**  
ÖZTÜRK H., ÇINAR G.  
4th International Conference on Mathematical and Computational Applications, Manisa, Turkey, 11 - 13 June 2013
- XV. **Scattering of sound waves at an area expansion in a cylindrical flow duct**  
BOIJ S., YANAZ ÇINAR Ö., ÇINAR G., NILSSON B.  
21st International Congress on Acoustics, Montreal, Canada, 2 - 07 June 2013
- XVI. **Radiation characteristics of a dielectric filled circular waveguide with a large circumferential gap**  
ÖZTÜRK H., ÇINAR G., YANAZ ÇINAR Ö.  
International Conference on Applied Analysis and Mathematical Modeling 2013, İstanbul, Turkey, 2 - 05 June 2013
- XVII. **Wiener Hopf analysis of TEM wave reflection by a sudden area expansion in a coaxial waveguide**  
ÇINAR G.  
Workshop on Mathematical Methods in Wave Phenomena 2013, Vaxjö, Sweden, 23 - 24 April 2013
- XVIII. **Radiation of TEM waves from an aperture in a coaxial waveguide**

- ÖZTÜRK H., ÇINAR G.  
Days on Diffraction 2012, St. Petersburg, Russia, 28 May - 01 June 2012
- XIX. **Asymptotic methods for long distance monitoring of power cables**  
NILSSON B., ÇINAR G., NORDEBO S., YANAZ ÇINAR Ö.  
The 6th International Conference "Inverse Problems: Modeling and Simulation", Antalya, Turkey, 21 - 26 May 2012
- XX. **Wave modeling and fault localization for underwater power cables**  
NORDEBO S., NILSSON B., BIRO T., ÇINAR G., GUSTAFSSON M., GUSTAFSSON S., KARLSSON A., SJÖBERG M.  
2011 IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications, Torino, Italy, 12 - 16 September 2011
- XXI. **Simulation of electromagnetic pulses in waveguides at large distances**  
NILSSON B., NORDEBO S., KARLSSON A., ÇINAR G.  
2011 International Conference on Electromagnetics in Advanced Applications, Torino, Italy, 12 - 16 September 2011
- XXII. **Jet pipe reflections Influence of geometrical and flow exit conditions**  
YANAZ ÇINAR Ö., BOIJ S., ÇINAR G., NILSSON B.  
16th AIAA/CEAS Aeroacoustics Conference, Stockholm, Sweden, 7 - 09 June 2010
- XXIII. **High frequency scattering by a cylindrically curved surface with second order generalized impedance boundary condition**  
BÜYÜKAKSOY İ. A., ÇINAR G.  
International Conference on Electromagnetics in Advanced Applications 2009, Torino, Italy, 14 - 18 September 2009
- XXIV. **Diffraction characteristics of an impedance loaded parallel plate waveguide**  
BÜYÜKAKSOY İ. A., ÇINAR G., UZGÖREN M. G.  
Days on Diffraction 2005, St. Petersburg, Russia, 28 June - 01 July 2005
- XXV. **Solution of a matrix Wiener Hopf equation connected with the plane wave diffraction by an impedance loaded parallel plate waveguid**  
BÜYÜKAKSOY İ. A., ÇINAR G.  
Days on Diffraction 2005, St. Petersburg, Russia, 28 June - 01 July 2005
- XXVI. **Duzlemsel elektromagnetik dalgaların empedans yuklu bir paralel plakali dalga kılavuzundan kirinimi Matris Wiener Hopf yaklasimi**  
BÜYÜKAKSOY İ. A., ÇINAR G., SERBEST A.  
URSI-Türkiye 2004 Bilimsel Kongresi, Ankara, Turkey, 8 - 10 September 2004
- XXVII. **Duzlemsel elektromagnetik dalgaların empedans yuklu bir paralel plakali dalga kılavuzundan kirinimi Hibrid formülasyon yaklasimi**  
BÜYÜKAKSOY İ. A., ÇINAR G., UZGÖREN M. G.  
URSI-Türkiye 2004 Bilimsel Kongresi, Ankara, Turkey, 8 - 10 September 2004
- XXVIII. **Diffraction by a set of three parallel impedance half planes with the one amidst located in the opposite direction**  
BÜYÜKAKSOY İ. A., ÇINAR G.  
Progress in Electromagnetic Research Symposium (PIERS) 2004, Pisa, Italy, 28 - 31 March 2004
- XXIX. **Plane wave diffraction by a slit in an impedance plane and a complementary impedance strip**  
BÜYÜKAKSOY İ. A., ÇINAR G.  
Progress in Electromagnetic Research Symposium (PIERS) 2004, Pisa, Italy, 28 - 31 March 2004

## Supported Projects

ÇINAR G., ODABAŞI H., YANAZ ÇINAR Ö., Project Supported by Higher Education Institutions, 26 GHz Frekansında 5G Sistemleri için Substrat Tümleşik Dalga Kılavuzları ile 4x4 Butler Matrisi Hüzme Şekillendirme Ağı, 2022 - 2023  
Çınar G., Yanaz Çınar Ö., Project Supported by Higher Education Institutions, Empedans Yüzey Modeli ile Çok-Katmanlı Kaplamaya Sahip Bazı Dalga Kılavuzlarının Analizi, 2019 - 2022

Yanaz Çınar Ö., Çınar G., Project Supported by Higher Education Institutions, Yeni Bir Genelleştirilmiş Kayma Tabakası Modeli Geliştirilmesi ve İki Kanonik Jet Borusu Uygulamasına Etkisi, 2019 - 2022  
Çınar G., Alkumru A., TÜBİTAK Project, Yarım Küreye İlişkin Ters Kaynak Problemi İçin Çift Green Fonksiyonu Yöntemi, 2016 - 2018  
Çınar G., Ergin A. A., Savunma Sanayi Başkanlığı TÜBİTAK SAVTAG Projesi, Maske II Radar Soğurucu Malzeme Optimizasyonu, 2008 - 2011

## **Metrics**

Publication: 54  
Citation (WoS): 89  
Citation (Scopus): 101  
H-Index (WoS): 5  
H-Index (Scopus): 5

## **Non Academic Experience**

LINNAEUS UNIVERSİTET  
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