

# Prof. ÇİĞDEM SEÇKİN GÜREL

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## Education Information

Doctorate, Hacettepe University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1995 - 2000

## Research Areas

Engineering and Technology

## Academic Titles / Tasks

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2005 - Continues

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

- I. **Response of magnetized plasma having linearly varying electron density profile to oblique electromagnetic wave incidence**  
Kilic O., GÜREL Ç. S.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.32, no.16, pp.2046-2054, 2018 (SCI-Expanded)
- II. **Band-blocking optical filter including ultrathin metallic film**  
GÜREL Ç. S., Kilic O.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.30, no.18, pp.2484-2491, 2016 (SCI-Expanded)
- III. **Analysis of Annular Ring Microstrip Antenna with Air Gap and Uniaxial Substrate Superstrate Layers**  
GÜREL Ç. S., YAZGAN E.  
WIRELESS PERSONAL COMMUNICATIONS, vol.78, no.2, pp.1249-1255, 2014 (SCI-Expanded)
- IV. **Resonant frequency of parallel plate type uniaxially anisotropic multilayered cylindrical dielectric resonator**  
GÜREL Ç. S., Yenilmez R.  
INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, vol.35, no.2, pp.103-112, 2011 (SCI-Expanded)
- V. **RESONANCE IN MICROSTRIP RING RESONATOR WITH UNIAXIALLY ANISOTROPIC SUBSTRATE AND SUPERSTRATE LAYERS**  
Gurel Ç. S., Yazgan E.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.24, pp.1135-1144, 2010 (SCI-Expanded)

- VI. **RESONANT FREQUENCY OF AIR GAP TUNED CIRCULAR MICROSTRIP ANTENNA WITH ANISOTROPIC SUBSTRATE AND SUPERSTRATE LAYERS**  
Gurel Ç. S., Yazgan E.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.24, no.13, pp.1731-1740, 2010 (SCI-Expanded)
- VII. **ACCURATE RESONANT FREQUENCY COMPUTATION OF MULTISEGMENT RECTANGULAR DIELECTRIC RESONATOR ANTENNAS**  
Gurel Ç. S., Cosar H., Akalin O.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.24, pp.839-847, 2010 (SCI-Expanded)
- VIII. **EFFICIENT METHOD FOR RESONANT FREQUENCY COMPUTATION OF RECTANGULAR DIELECTRIC RESONATOR ANTENNAS**  
GÜREL Ç. S., Cosar H.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.51, no.7, pp.1706-1708, 2009 (SCI-Expanded)
- IX. **Frequency Selective Characteristics of a Plasma Layer with Sinusoidally Varying Electron Density Profile**  
GÜREL Ç. S., Oencue E.  
JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES, vol.30, no.6, pp.589-597, 2009 (SCI-Expanded)
- X. **Computation and optimization of resonant frequency and input impedance of a coax-fed circular patch microstrip antenna**  
Gurel C. S., Aydin E., Yazgan E.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.49, no.9, pp.2263-2267, 2007 (SCI-Expanded)
- XI. **Beam steering characteristics of strip line fed printed array antenna on magnetized ferrite**  
Akyunus M., Gurel Ç. S.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.60, no.2, pp.142-146, 2006 (SCI-Expanded)
- XII. **Characteristics of a circular patch microstrip antenna on uniaxially anisotropic substrate**  
Gurel Ç. S., Yazgan E.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.52, no.10, pp.2532-2537, 2004 (SCI-Expanded)
- XIII. **Compensation of superstrate effects on the resonant behavior of the microstrip ring structure by using an air-cap control**  
Gurel Ç. S., Yazgan E.  
IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY, vol.43, no.2, pp.219-223, 2001 (SCI-Expanded)
- XIV. **Resonant frequency of an air gap tuned circular disc microstrip antenna**  
Gurel Ç. S., Yazgan E.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.87, no.8, pp.973-979, 2000 (SCI-Expanded)
- XV. **New determination of dynamic permittivity and resonant frequency of tunable circular disk microstrip structures**  
Gurel Ç. S., Yazgan E.  
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.10, no.2, pp.120-126, 2000 (SCI-Expanded)
- XVI. **Simple determination of effective permittivity and resonant frequency of a microstrip ring antenna including air gap**  
Gurel Ç. S., Yazgan E.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.54, no.4, pp.238-240, 2000 (SCI-Expanded)
- XVII. **Modified cavity model to determine resonant frequency of tunable microstrip ring antenna**  
Gurel Ç. S., Yazgan E.  
ELECTROMAGNETICS, vol.19, no.5, pp.443-455, 1999 (SCI-Expanded)
- XVIII. **Modified resonant frequency calculation for two-layered circular patch microstrip antenna**  
Gurel Ç. S., Yazgan E.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.53, no.3, pp.155-157, 1999 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Wavelength Division Multiplexing Optical Filter Design with Fibonacci Series for Optical Communication Systems Fibonacci Serileri ile Optik Haberleşme Sistemleri için Dalga Boyu Çoklayıcı Optik Filtre Tasarımı**  
Maktav M. B., GÜREL Ç. S.  
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- II. **Association of serotonin transporter gene (SLC6A4) polymorphisms with alcohol dependence in a Turkish population**  
KARACA O. R., BABAOĞLU M. Ö., YAŞAR Ü., AYHAN Y., GÜREL Ç. S., DILBAZ N., DEMİR B., ULUG B., Bozkurt A.  
9th International Meeting of the International-Society-for-the-Study-of-Xenobiotics(ISSX), İstanbul, Turkey, 4 - 08 September 2010, vol.42, pp.255-256
- III. **Antenna array pattern optimisation in the case of array element failure**  
Taskin A., Gurel Ç. S.  
33rd European Microwave Conference, Munich, Germany, 7 - 09 October 2003, pp.1083-1085
- IV. **The effects of uniaxially anisotropic superstrate shielding on the resonant characteristics of circular microstrip patch**  
Gurel Ç. S., Yazgan E.  
IEEE International Symposium on Electromagnetic Compatibility (EMC), İstanbul, Turkey, 11 - 16 May 2003, pp.935-937

## Metrics

Publication: 22

Citation (WoS): 114

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H-Index (WoS): 6

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