

# **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  
Citation (Scopus): 88  
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H-Index (Scopus): 5