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Education Information

Doctorate, Ohio State University, Elektrik-Elektronik Mühendisliği, United States Of America 1983 - 1988

Post Graduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), Turkey 1980 - 1981

Under Graduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1974 - 1979

Foreign Languages

English, C1 Advanced

Research Areas

Electrical and Electronics Engineering, Electromagnetic, Electromagnetic Waves, Antennas and Propagation, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2003 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 1994 - 2003

Assistant Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 1992 - 1994

Research Assistant, Ohio State University, Faculty Of Engineering, Electrical Engineering Department, 1984 - 1988

Research Assistant, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 1980 - 1984

Professional Experience

Vice Rector, Middle East Technical University, 2016 - 2017

Head of Department, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2013 - 2016

Advising Theses

- SAYAN G., DESIGN AND REALIZATION OF A BROAD BAND ANTENNA LOADED WITH A METAMATERIAL-INSPIRED LENS FOR SUBSURFACE MICROWAVE IMAGING APPLICATIONS, Post Graduate, Ö.YEŞİLYURT(Student), 2019
- SAYAN G., Design, fabrication and characterization of an ultra-broadband metamaterial absorber using bismuth in the near infrared region, Post Graduate, İ.ÖZBAY(Student), 2018
- SAYAN G., Metamaterial based wideband infrared absorbers, Doctorate, K.ÜSTÜN(Student), 2017
- SAYAN G., Novel multi-band metamaterials in microwave region with applications in antennas, Doctorate, Ö.KÜÇÜKSARI(Student), 2014
- SAYAN G., Electromagnetic analysis and design of miniaturized branchline couplers, Post Graduate, G.ORKUN(Student), 2014
- SAYAN G., Electromagnetic target recognition for lossy and dispersive dielectric objects: Applications to breast tissue classification and tumor detection problem, Post Graduate, B.İŞİK(Student), 2014

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Response to "Comment on 'Sliding planar conjoined cut-wire-pairs: A novel approach for splitting and controlling the absorption spectra'" [J. Appl. Phys. 128, 126101 (2020)]**
Karacan N., EKMEKÇİ E., SAYAN G.
JOURNAL OF APPLIED PHYSICS, vol.128, 2020 (Journal Indexed in SCI)
- **Bismuth plasmonics for extraordinary light absorption in deep sub-wavelength geometries**
Ozbay I., Ghobadi A., BÜTÜN B., Turhan-Sayan G.
OPTICS LETTERS, vol.45, pp.686-689, 2020 (Journal Indexed in SCI)
- **Metasurface Lens for Ultra-Wideband Planar Antenna**
Yesilyurt O., Turhan-Sayan G.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.68, pp.719-726, 2020 (Journal Indexed in SCI)
- **Broadband LWIR and MWIR metamaterial absorbers with a simple design topology: almost perfect absorption and super-octave band operation in MWIR band**
ÜSTÜN K., Turhan-Sayan G.
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS, vol.34, 2017 (Journal Indexed in SCI)
- **Ultra-broadband long-wavelength infrared metamaterial absorber based on a double-layer metasurface structure**
ÜSTÜN K., Turhan-Sayan G.
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS, vol.34, pp.456-462, 2017 (Journal Indexed in SCI)
- **Comparison of coherently coupled multi-cavity and quantum dot embedded single cavity systems**
KOCAMAN S., Sayan G.
OPTICS EXPRESS, vol.24, pp.29330-29342, 2016 (Journal Indexed in SCI)
- **Wideband long wave infrared metamaterial absorbers based on silicon nitride**
ÜSTÜN K., Turhan-Sayan G.
JOURNAL OF APPLIED PHYSICS, vol.120, 2016 (Journal Indexed in SCI)
- **Large bandwidth mode order converter by differential waveguides**
Oner B. B., ÜSTÜN K., Kurt H., Okyay A. K., Turhan-Sayan G.
OPTICS EXPRESS, vol.23, pp.3186-3195, 2015 (Journal Indexed in SCI)
- **Metamaterial absorber-based sensor embedded into X-band waveguide**
SABAH C., TURKMEN-KUCUKSARI O., Turhan-Sayan G.
ELECTRONICS LETTERS, vol.50, pp.1075-1076, 2014 (Journal Indexed in SCI)
- **SINGLE-, DUAL-, AND TRIPLE-BAND METAMATERIAL-INSPIRED ELECTRICALLY SMALL PLANAR MAGNETIC DIPOLE ANTENNAS**
Turkmen O., Turhan-Sayan G., Ziolkowski R. W.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.56, pp.83-87, 2014 (Journal Indexed in SCI)

- **Effects of using different boundary conditions and computational domain dimensions on modeling and simulations of periodic metamaterial arrays in microwave frequencies**
Turkmen O., EKMEKÇİ E., Turhan-Sayan G.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.23, pp.459-465, 2013
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- **Non-destructive recognition of dielectric coated conducting objects by using WD type time-frequency transformation and PCA-based fusion**
Turhan-Sayan G., ERGİN E.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.23, pp.403-409, 2013
(Journal Indexed in SCI)
- **Multi-functional metamaterial sensor based on a broad-side coupled SRR topology with a multi-layer substrate**
EKMEKÇİ E., Turhan-Sayan G.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.110, pp.189-197, 2013 (Journal Indexed in SCI)
- **Nested U-ring resonators: a novel multi-band metamaterial design in microwave region**
Turkmen O., EKMEKÇİ E., Turhan-Sayan G.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.6, pp.1102-1108, 2012 (Journal Indexed in SCI)
- **Hybrid-shaped single-loop resonator: a four-band metamaterial structure**
Yurduseven O., Yilmaz A. E. , Turhan-Sayan G.
ELECTRONICS LETTERS, vol.47, pp.1381-1382, 2011 (Journal Indexed in SCI)
- **Enhanced transmission of electromagnetic waves through split-ring resonator-shaped apertures**
Sahin L., Aydin K., Sayan G., Ozbay E.
JOURNAL OF NANOPHOTONICS, vol.5, 2011 (Journal Indexed in SCI)
- **Frequency tunable terahertz metamaterials using broadside coupled split-ring resonators**
Ekmekci E., Strikwerda A. C. , Fan K., Keiser G., Zhang X., Turhan-Sayan G., Averitt R. D.
PHYSICAL REVIEW B, vol.83, 2011 (Journal Indexed in SCI)
- **Triangular-Shaped Single-Loop Resonator: A Triple-Band Metamaterial With MNG and ENG Regions in S/C Bands**
Yurduseven O., Yilmaz A. E. , Turhan-Sayan G.
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, vol.10, pp.701-704, 2011 (Journal Indexed in SCI)
- **Single loop resonator: dual-band magnetic metamaterial structure**
EKMEKÇİ E., Turhan-Sayan G.
ELECTRONICS LETTERS, vol.46, pp.324-325, 2010 (Journal Indexed in SCI)
- **Radar target classification method with reduced aspect dependency and improved noise performance using multiple signal classification algorithm**
SEÇMEN M., Turhan-Sayan G.
IET RADAR SONAR AND NAVIGATION, vol.3, pp.583-595, 2009 (Journal Indexed in SCI)
- **A tunable multi-band metamaterial design using micro-split SRR structures**
EKMEKÇİ E., TOPALLI K., AKIN T., Turhan-Sayan G.
OPTICS EXPRESS, vol.17, pp.16046-16058, 2009 (Journal Indexed in SCI)
- **Real time electromagnetic target classification using a novel feature extraction technique with PCA-based fusion**
Turhan-Sayan G.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.53, pp.766-776, 2005 (Journal Indexed in SCI)
- **Natural resonance-based feature extraction with reduced aspect sensitivity for electromagnetic target classification**
Turhan-Sayan G.
Pattern Recognition, vol.36, pp.1449-1466, 2003 (Journal Indexed in SCI)
- **Temperature effects on surface plasmon resonance: Design considerations for an optical temperature sensor**
Ozdemir S., Turhan-Sayan G.

- JOURNAL OF LIGHTWAVE TECHNOLOGY, vol.21, pp.805-814, 2003 (Journal Indexed in SCI)
Pole estimation for arbitrarily-shaped dielectric targets using genetic algorithm-based resonance annihilation technique
Turhan-Sayan G., Kuzuoglu M.
- ELECTRONICS LETTERS, vol.37, pp.380-381, 2001 (Journal Indexed in SCI)
Electromagnetic Target Classification using time frequency analysis and neural networks
SAYAN G., LEBLEBİCİOĞLU M. K. , İNCE T.
- Microwave And Optical Technology Letters, vol.21, pp.63-69, 1999 (Journal Indexed in SCI Expanded)
Input signal shaping for target identification using genetic algorithms
SAYAN G., LEBLEBİCİOĞLU M. K. , İNAN S.
- Microwave And Optical Technology Letters, vol.17, pp.128-132, 1998 (Journal Indexed in SCI Expanded)
FREQUENCY-DOMAIN MECHANISM EXTRACTION
TURHANSAYAN G., DOMİNEK A.
- IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.38, pp.1716-1719, 1990 (Journal Indexed in SCI)
K-PULSE ESTIMATION USING LEGENDRE POLYNOMIAL-EXPANSIONS AND TARGET DISCRIMINATION
TURHANSAYAN G., MOFFATT D.
- JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.4, pp.113-128, 1990 (Journal Indexed in SCI)
K PULSE ESTIMATION AND TARGET IDENTIFICATION OF LOW Q RADAR TARGETS
SAYAN G., MOFFATT D.
- Wave Motion, vol.11, pp.453-461, 1989 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- **Comparative investigation of resonance characteristics and electrical size of the double sided SRR BC SRR and conventional SRR type metamaterials for varying substrate parameters**
EKMEKÇİ E., SAYAN G.
Progress in Electromagnetics Research B, vol.12, pp.35-62, 2009 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- **Directivity enhancement of antipodal vivaldi antenna using broadband metasurface lens**
Sayan G., Yesilyurt O.
2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, APSURSI 2019, Georgia, United States Of America, 7 - 12 July 2019, pp.631-632
- **Detection and Microwave Imaging of Conducting Objects Buried Very Closely to the Air-Soil Boundary**
Dinc S., Elibol H., Guneri R., Ozdol A. B. , Sik F., Yesilyurt I. T. , DOĞAN M., Turhan-Sayan G.
21st International Conference on Electromagnetics in Advanced Applications (ICEAA), Granada, Nicaragua, 9 - 13 September 2019, pp.40-43
- **Inside-the-wall detection of objects with low metal content using the GPR sensor: effects of different wall structures on the detection performance**
DOĞAN M., YESİLTURT O., SAYAN G.
Detection and Sensing of Mines, Explosive Objects, and Obscured Targets XXIII, Orlando, United States, United States Of America, 15 - 19 April 2018
- **Investigation of the Effects of Buried Object Orientation in Subsurface Target Detection by GPR**
DOĞAN M., SAYAN G.
7th IEEE International Symposium on Microwaves, Antennas, Propagation and EMC Technologies, Xi'xxan, China, 24 - 27 October 2017
- **Wide Bandwidth Absorption in the MWIR Region using a Thin and Simple Metamaterial Absorber**

ÜSTÜN K., SAYAN G.

4th International EMC Turkiye Conference, Ankara, Turkey, 24 - 27 September 2017

● **Through-The-Wall Target Detection using GPR A-Scan Data: Effects of Different Wall Structures on Detection Performance**

DOĞAN M., SAYAN G.

4th International EMC Turkiye Conference, Ankara, Turkey, 24 - 27 September 2017

● **Detection of Conducting and Dielectric Objects Buried under a Layer of Asphalt or Concrete Using Simulated Ground Penetrating Radar Signals**

DOĞAN M., GÜMÜŞ S., SAYAN G.

ICEAA/IEEE APWC Meeting at Verona, Italy, Verona, Italy, 11 - 15 September 2017

● **Investigation of Simulated Ground Penetrating Radar Data for Buried Objects Using Quadratic Time-Frequency Transformations**

DOĞAN M., SAYAN G.

2017 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, San Diego, United States Of America, 7 - 14 July 2017

● **Through-the-wall target detection by energy features extracted from simulated ultra wideband radar signals (Çok Geniş Bantlı Radar Benzetim Sinyallerinden Hesaplanan Enerji Öznitelikleri ile Duvar Arkasındaki Hedeflerin Tespiti)**

DOĞAN M., SAYAN G.

Sinyal İşleme ve Uygulamaları Kurultayı (SIU) 2017, Antalya, Turkey, 15 - 18 May 2017

● **Delay characteristics comparison of coherently coupled high-Q multi-cavity array and single embedded quantum dot cavity systems**

KOCAMAN S., Sayan G. T.

Conference on Quantum Dots and Nanostructures - Growth, Characterization, and Modeling XIV, San-Francisco, Costa Rica, 30 - 31 January 2017, vol.10114

● **Through-the-Wall Target Detection by Energy Features Extracted from Simulated Ultra Wideband Radar Signals**

Dogan M., Turhan-Sayan G.

25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017

● **Thin Wideband Infrared Metamaterial Absorber with Coplanar Metallic Patches of Different Sizes submitted to in Crete Greece September 19 22 2016**

ÜSTÜN K., SAYAN G.

10th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials' 2016), Girit, Greece, 19 - 22 September 2016

● **Kızılötesi Bantlarda İnce Metamalzeme Sönümleyici Tasarımı**

ÜSTÜN K., SAYAN G.

URSI-TÜRKİYE'2016 VIII. Bilimsel Kongresi, Ankara, Turkey, 1 - 03 September 2016

● **Yeraltı Radar Verilerinden Enerji Tabanlı Ön İşleme ve Hedef Tespiti**

DOĞAN M., AYDIN T., DURSUN A. A. , GÜMÜŞ S., KOÇ Y. E. , SAYAN G.

URSI-TÜRKİYE'2016 VIII. Bilimsel Kongresi, Ankara, Turkey, 1 - 03 September 2016

● **Preprocessing of A Scan GPR Based on Energy Features**

DOĞAN M., SAYAN G.

SPIE Defense+Security Symposium 2016, Baltimore, United States Of America, 17 - 21 April 2016

● **Thin Wideband Infrared Metamaterial Absorber with Coplanar Metallic Patches of Different Sizes**
Ustun K., Turhan-Sayan G.

10th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics

(METAMATERIALS), Chania, Greece, 19 - 22 September 2016, pp.352-354

● **The effect of periodicity distance in electric field direction on the resonance frequency by using equivalent circuit model and simulation**

YAŞARÖRTEN P., SAYAN G.

IEEE Antennas and Propagation Society International Symposium, APS 2015, Canada, 19 - 24 July 2015

● **Broadband One Way Propagation via Dielectric Waveguides with Unequal Effective Index**

Oner B. B. , Ustun K., KURT H., OKYAY A. K. , Turhan-Sayan G.

27th IEEE Photonics Conference (IPC), California, United States Of America, 12 - 16 October 2014, pp.556-557

● **Electromagnetic Signal Processing for Feature Extraction and Classification of Lossy Dielectric Targets**

Turhan-Sayan G., Barut B. I.

Progress In Electromagnetics Research Symposium, Stockholm, Sweden, 12 - 15 August 2013, pp.184-187

● **Metamaterial Inspired Electrically Small GSM Antenna with Steerable Radiation Patterns and High Radiation Efficiency**

OZNUR T., SAYAN G., ZIOLKOWSKI R.

2013 IEEE ANTENNAS AND PROPAGATION SOCIETY INTERNATIONAL SYMPOSIUM (APSURSI), United States Of America, 7 - 13 July 2013

● **A compact five-band SLR type metamaterial**

Yurduseven O., Yilmaz A. E. , Turhan-Sayan G.

6th European Conference on Antennas and Propagation, EuCAP 2012, Prague, Czech Republic, 26 - 30 March 2012, pp.2865-2867

● **Electromagnetic Object Recognition for Dielectric Coated Conductors Based on WD-PCA Type Fused Feature Extraction**

Turhan-Sayan G., Ergin E.

Progress In Electromagnetics Research Symposium (PIERS), Moscow, Russia, 19 - 23 August 2012, pp.212-215

● **Frequency tunable metamaterial designs using near field coupled SRR structures in the terahertz region**

Ekmekci E., Strikwerda A., Fan K., Keiser G., Zhang X., Turhan-Sayan G., Averitt R. D.

CLEO: Science and Innovations, CLEO_SI 2011, Baltimore, MD, United States Of America, 1 - 06 May 2011

● **Frequency tunable metamaterial designs using near field coupled SRR structures in the terahertz region**

Ekmekci E., Strikwerda A., Fan K., Keiser G., Zhang X., Turhan-Sayan G., Averitt R. D.

CLEO: Applications and Technology, CLEO_AT 2011, Baltimore, MD, United States Of America, 1 - 06 May 2011

● **Frequency tunable metamaterial designs using near field coupled SRR structures in the terahertz region**

Ekmeki E., Strikwerda A. C. , Fan K., Keiser G., Zhang X., Turhan-Sayan G., Averitt R. D.

36th International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz 2011, Houston, TX, United States Of America, 2 - 07 October 2011

● **Miniaturization of U-shaped multi-band metamaterial structures**

Turkmen O., Ekmekci E., Turhan-Sayan G.

2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Turkey, 13 - 20 August 2011

● **Frequency tunable metamaterial designs using near field coupled SRR structures in the terahertz region**

Ekmekci E., Strikwerda A., Fan K., Keiser G., Zhang X., Turhan-Sayan G., Averitt R. D.

2011 Conference on Lasers and Electro-Optics, CLEO 2011, Baltimore, MD, United States Of America, 1 - 06 May 2011

● **A new method for the verification of effective medium parameters for metamaterials Metamalzeme etkin ortam parametrelerinin doğrulanması için yeni bir yöntem**

Ekmekçi E., Turhan-Sayan G.

2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22 April 2011, pp.682-685

● **Parametric investigation of a new multi-band metamaterial design: U-shaped multiple ring magnetic resonators**

Turkmen O., Ekmekci E., SAYAN G.

IEEE International Symposium on Antennas and Propagation (APSURSI)/USNC/URSI National Radio Science

Meeting, Washington, United States Of America, 3 - 08 July 2011, pp.1516-1518

Metamaterial Sensor Applications Based on Broadside Coupled SRR and V Shaped Resonator Structures

EKMEKÇİ E., SAYAN G.

2011 IEEE INTERNATIONAL SYMPOSIUM ON ANTENNAS AND PROPAGATION (APSURSI), United States Of America, 3 - 08 July 2011, pp.1170-1172

A New Multi-ring SRR Type Metamaterial Design with Multiple Magnetic Resonances

Turkmen O., Ekmekci E., Turhan-Sayan G.

Progress in Electromagnetics Research Symposium (PIERS), Marrakush, Morocco, 20 - 23 March 2011, pp.315-319

Frequency Tunable Metamaterial Designs Using Near Field Coupled SRR Structures in the Terahertz Region

Ekmeki E., Strikwerda A. C. , Fan K., Keiser G., Zhang X., Turhan-Sayan G., Averitt R. D.

36th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), Texas, United States Of America, 2 - 07 October 2011

Target recognition by self-organizing map (SOM) type unsupervised clustering using electromagnetic scattered signals in resonance region

Turhan-Sayan G., Katilmi T. T. , Sayan E. S.

2010 10th Mediterranean Microwave Symposium, MMS 2010, Guzelyurt, Cyprus (Gkry), 25 - 27 August 2010, pp.196-199

Use of SRR Based Super-Cells to Obtain Multiple Resonances and Broader Frequency Bands with Negative Effective Permeability

Ekmekci E., SAYAN G.

2010 IEEE International Symposium Antennas and Propagation/CNC-USNC/URSI Radio Science Meeting, Toronto, Canada, 11 - 17 July 2010

Unsupervised Electromagnetic Target Classification by Self-organizing Map Type Clustering

Katilmis T. T. , Ekmekci E., Turhan-Sayan G.

Progress in Electromagnetics Research Symposium, Cambridge, Canada, 5 - 08 July 2010, pp.240-243

Equivalent Circuit Models for Split-ring Resonator Arrays

Yasar-Orten P., Ekmekci E., Turhan-Sayan G.

Progress in Electromagnetics Research Symposium, Cambridge, Canada, 5 - 08 July 2010, pp.534-537

Effects of Substrate Parameters on the Resonance Frequency of Double-sided SRR Structures under Two Different Excitations

Ekmekci E., Averitt R. D. , Turhan-Sayan G.

Progress in Electromagnetics Research Symposium, Cambridge, Canada, 5 - 08 July 2010, pp.538-539

An Electromagnetic Target Classification Method for the Target Sets with Alien Target: Application to Small-scale Aircraft Targets

Secmen M., Turhan-Sayan G.

Progress in Electromagnetics Research Symposium, Cambridge, Canada, 5 - 08 July 2010, pp.235-236

Feasibility study for tunable metamaterial design using multi-split SRR structures and RF MEMS switching

Ekmekci E., Topalli K., AKIN T., Turhan-Sayan G.

2009 IEEE International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting, APSURSI 2009, North Charleston, SC, United States Of America, 1 - 05 June 2009

Noise Performances of Two Recently Reported Electromagnetic Target Classification Techniques in Resonance Region: A Comparative Study for the WD-PCA Based Classifier and the MUSIC Algorithm Based Classifier

Ergin E., Turhan-Sayan G.

Progress in Electromagnetics Research Symposium (PIERS 2009 Moscow), Moscow, Russia, 12 - 21 August 2009, pp.762-766

Effects of Array Dimensions on the Resonance Characteristics of SRR Type Metamaterial Arrays with Small Sizes: Simulations and Experiments

Ekmekci E., Topalli K., AKIN T., Turhan-Sayan G.

Progress in Electromagnetics Research Symposium (PIERS 2009 Moscow), Moscow, Russia, 12 - 21 August 2009, pp.83-86

● **A Feasibility Study for Tunable Metamaterial Design Using Multi-Split SRR Structures and RF MEMS Switching**

Ekmekci E., Topalli K., AKIN T., SAYAN G.

IEEE Antennas and Propagation International Symposium /USNC/URSI National Radio Science Meeting, South-Carolina, United States Of America, 1 - 05 June 2009, pp.1548-1551

● **Experimental Investigation of Metamaterial Array Structures With Split Ring Resonators**

Ekmekci E., Topalli K., AKIN T., SAYAN G.

IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.551-554

● **Reducing the Electrical Size of Magnetic Metamaterial Resonators by Geometrical Modifications: A Comparative Study for Single-Sided and Double-Sided Multiple SRR, Spiral and U-Spiral Resonators**

Ekmekci E., SAYAN G.

IEEE Antennas-and-Propagation-Society International Symposium, California, United States Of America, 5 - 11 July 2008, pp.1484-1487

● **A Resonance Region Method for Recognition of Multiple Targets Using the MUSIC Algorithm and a Time Correlation Technique**

Secmen M., Ekmekci E., Turhan-Sayan G.

IEEE Antennas-and-Propagation-Society International Symposium, California, United States Of America, 5 - 11 July 2008, pp.4106-4109

● **Sensitivity of the resonance characteristics of SRR and DSRR (double-sided SRR) type metamaterials to the changes in substrate parameters and the usefulness of DSRR structure for reduced electrical size**

Ekmekci E., Turhan-Sayan G.

Progress in Electromagnetics Research Symposium (PIERS 2008), Cambridge, Canada, 2 - 06 July 2008, pp.598-602

● **A Radar Target Recognition Method with MUSIC Algorithm: Application to Aircraft Targets with Measured Scattered Data**

Secmen M., Turhan-Sayan G., Hizal A.

2008 IEEE Radar Conference, Rome, Italy, 26 - 30 May 2008, pp.361-366

● **The Theory and Application of an Electromagnetic Target Recognition Method based on Natural-Resonance for Multi-Targets**

Secmen M., Turhan-Sayan G.

IEEE 16th Signal Processing and Communications Applications Conference, Aydın, Turkey, 20 - 22 April 2008, pp.252-255

● **The MUSIC algorithm-based electromagnetic target classification for isolated targets from incomplete frequency domain data**

Secmen M., Turhan-Sayan G.

IEEE Antennas-and-Propagation-Society International Symposium, Hawaii, United States Of America, 9 - 15 June 2007, pp.4170-4173

● **Electromagnetic target recognition with the fused MUSIC spectrum matrix method: Applications and performance analysis for incomplete frequency data**

Secmen M., Ekmekci E., Turhan-Sayan G.

IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.253-256

● **Simulations for a novel magnetic resonator with V-shaped structures**

Ekmekci E., Turhan-Sayan G.

IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.751-753

● **A novel electromagnetic target recognition method by MUSIC algorithm**

Secmen M., Turhan-Sayan G.

IEEE Antennas and Propagation Society International Symposium, APS 2006, Albuquerque, NM, United States Of America, 9 - 14 July 2006, pp.1299-1302

● **A novel method for electromagnetic target classification using the music algorithm: Applied to small-scale aircraft targets**

Secmen M., Turhan-Sayan G.

European Conference on Antennas and Propagation: EuCAP 2006, Nice, France, 6 - 10 November 2006

● **A new electromagnetic target classification method with MUSIC algorithm**

Secmen M., Turhan-Sayan G.

IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.341-342

● **Electromagnetic target classification of small-scale aircraft modeled by conducting wire structures using a natural resonance based feature extraction technique**

Ersoy M. O. , Turhan-Sayan G.

2005 IEEE Antennas and Propagation Society International Symposium and USNC/URSI Meeting, Washington, United States Of America, 3 - 08 July 2005, pp.468-471

● **Extraction of target poles from electromagnetic scatter signals by using page distribution for target recognition Hedef tanima amaci ile page dağılımı kullanarak elektromanyetik saçılım sinyallerinden kutup çıkarımı**

Seçmen M., Turhan-Sayan G., Hizal A.

IEEE 13th Signal Processing and Communications Applications Conference, SIU 2005, Kayseri, Turkey, 16 - 18 May 2005, vol.2005, pp.499-502

● **Electromagnetic target classification of aircraft modeled by conducting wire structures using a natural resonance based feature extraction technique İletken tel yapılarla modellenmiş uçakların elektromanyetik doğal rezonanslara dayalı bir öznelik çıkarım tekniği ile sınıflandırılması**

Ersoy M. O. , Turhan-Sayan G.

IEEE 13th Signal Processing and Communications Applications Conference, SIU 2005, Kayseri, Turkey, 16 - 18 May 2005, vol.2005, pp.495-498

● **Investigation of using linear and quadratic time-frequency representations for electromagnetic feature extraction with reduced aspect sensitivity**

Turhan-Sayan G.

2003 IEEE International Antennas and Propagation Symposium and USNC/CNC/URSI North American Radio Science Meeting, Columbus, OH, United States Of America, 22 - 27 June 2003, vol.2, pp.243-246

● **Multi-aspect data fusion applied to electromagnetic target classification using genetic algorithm**

Turhan-Sayan G.

Conference of the NATO-Advanced-Study-Institute on Multisensor Data Fusion, PITOCHRY, Scotland, 25 June - 07 July 2000, vol.70, pp.533-539

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