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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-7866-2012

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Education Information

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

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

Undergraduate, 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, Department of Electrical and Electronics Engineering, 2003 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 1994 - 2003

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 1992 - 1994

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

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 1980 - 1984

Academic and Administrative Experience

Middle East Technical University, 2016 - 2017

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

Advising Theses

- SAYAN G., Automatic target recognition of quadcopter type drones from moderately-wideband electromagnetic data using convolutional neural networks, Postgraduate, R.GÜNERİ(Student), 2022
- SAYAN G., Theory and applications of surface plasmon resonance sensors, Postgraduate, F.ÖZDEMİRCAN(Student), 2021
- SAYAN G., DESIGN AND REALIZATION OF A BROAD BAND ANTENNA LOADED WITH A METAMATERIAL-INSPIRED LENS FOR SUBSURFACE MICROWAVE IMAGING APPLICATIONS, Postgraduate, Ö.YEŞİLYURT(Student), 2019
- SAYAN G., Design, fabrication and characterization of an ultrabroadband metamaterial absorber using bismuth in the near infrared region, Postgraduate, İ.ÖZBAY(Student), 2018
- SAYAN G., Metamaterial based wideband infrared absorbers, Doctorate, K.ÜSTÜN(Student), 2017
- SAYAN G., Electromagnetic target recognition for lossy and dispersive dielectric objects: applications to breast tissue classification and tumor detection problem /, Postgraduate, B.İşık(Student), 2014
- SAYAN G., Electromagnetic analysis and design of miniaturized branchline couplers /, Postgraduate, G.ORKUN(Student), 2014
- SAYAN G., Novel multi-band metamaterials in microwave region with applications in antennas, Doctorate, Ö.KÜÇÜKSARI(Student), 2014
- SAYAN G., Electromagnetic target recognition for lossy and dispersive dielectric objects: Applications to breast tissue classification and tumor detection problem, Postgraduate, B.İŞİK(Student), 2014
- SAYAN G., Pumping chamber design in diode pumped solid-state lasers for maximum system efficiency and minimum optical distortion, Postgraduate, K.Zengin(Student), 2013
- SAYAN G., Numerical analysis, design and two port equivalent circuit models for split ring resonator arrays, Postgraduate, P.Yaşar(Student), 2010
- SAYAN G., Design, fabrication and characterization of novel metamaterials in microwave and terahertz regions : multi-band, frequency-tunable and miniaturized structures, Doctorate, E.Ekmekçi(Student), 2010
- SAYAN G., Transmission and propagation properties of novel metamaterials, Postgraduate, L.Şahin(Student), 2009
- SAYAN G., Investigation of music algorithm based and wd-pca method based electromagnetic target classification techniques for their noise performances, Postgraduate, E.Ergin(Student), 2009
- SAYAN G., Theoretical investigation of metamaterials: srr structures and periodic arrays of thin conducting wires, Postgraduate, K.Ozan(Student), 2008
- SAYAN G., A novel music algorithm based electromagnetic target recognition method in resonance region for the classification of single and multiple targets, Doctorate, M.Seçmen(Student), 2008
- SAYAN G., Target detection by the ambiguity function technique and the conventional fourier transform technique in frequency coded continuous wave radars, Postgraduate, M.Akangöl(Student), 2005
- SAYAN G., Design of an electromagnetic classifier for spherical targets, Postgraduate, M.Ayar(Student), 2005
- SAYAN G., Use of the ambiguity function technique for target detection in phase coded continuous wave radars, Postgraduate, E.Çankaya(Student), 2005
- SAYAN G., Application of a natural-resonance based feature extraction technique to small-scale aircraft wires for electromagnetic target classification, Postgraduate, M.Okan(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

1. **A novel miniaturized X-band coplanar waveguide branch-line coupler using T- and**
𝜋�-type equivalent transmission lines
Arıcan G. O., Sen O., SAYAN G.

INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.32, no.7, 2022 (SCI-Expanded)

- II. **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, no.12, 2020 (SCI-Expanded)
- III. **Bismuth plasmonics for extraordinary light absorption in deep sub-wavelength geometries**
Ozbay I., Ghobadi A., BÜTÜN B., Turhan-Sayan G.
OPTICS LETTERS, vol.45, no.3, pp.686-689, 2020 (SCI-Expanded)
- IV. **Metasurface Lens for Ultra-Wideband Planar Antenna**
Yesilyurt O., Turhan-Sayan G.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.68, no.2, pp.719-726, 2020 (SCI-Expanded)
- V. **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, no.7, 2017 (SCI-Expanded)
- VI. **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, no.2, pp.456-462, 2017 (SCI-Expanded)
- VII. **Comparison of coherently coupled multi-cavity and quantum dot embedded single cavity systems**
KOCAMAN S., Sayan G.
OPTICS EXPRESS, vol.24, no.25, pp.29330-29342, 2016 (SCI-Expanded)
- VIII. **Wideband long wave infrared metamaterial absorbers based on silicon nitride**
ÜSTÜN K., Turhan-Sayan G.
JOURNAL OF APPLIED PHYSICS, vol.120, no.20, 2016 (SCI-Expanded)
- IX. **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, no.3, pp.3186-3195, 2015 (SCI-Expanded)
- X. **Metamaterial absorber-based sensor embedded into X-band waveguide**
SABAH C., TURKMEN-KUCUKSARI O., Turhan-Sayan G.
ELECTRONICS LETTERS, vol.50, no.15, pp.1075-1076, 2014 (SCI-Expanded)
- XI. **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, no.1, pp.83-87, 2014 (SCI-Expanded)
- XII. **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, no.4, pp.403-409, 2013 (SCI-Expanded)
- XIII. **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, no.4, pp.459-465, 2013 (SCI-Expanded)
- XIV. **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, no.1, pp.189-197, 2013 (SCI-Expanded)

- XV. **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, no.10, pp.1102-1108, 2012 (SCI-Expanded)
- XVI. **Hybrid-shaped single-loop resonator: a four-band metamaterial structure**
Yurduseven O., Yilmaz A. E., Turhan-Sayan G.
ELECTRONICS LETTERS, vol.47, no.25, pp.1381-1382, 2011 (SCI-Expanded)
- XVII. **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 (SCI-Expanded)
- XVIII. **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, no.19, 2011 (SCI-Expanded)
- XIX. **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 (SCI-Expanded)
- XX. **A dielectric corrugated feed horn antenna for satellite communication applications**
Secmen M., Hizal A.
Microwave and Optical Technology Letters, vol.52, no.8, pp.1709-1713, 2010 (SCI-Expanded)
- XXI. **Single loop resonator: dual-band magnetic metamaterial structure**
EKMEKÇİ E., Turhan-Sayan G.
ELECTRONICS LETTERS, vol.46, no.5, pp.324-325, 2010 (SCI-Expanded)
- XXII. **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, no.6, pp.583-595, 2009 (SCI-Expanded)
- XXIII. **A tunable multi-band metamaterial design using micro-split SRR structures**
EKMEKÇİ E., TOPALLI K., AKIN T., Turhan-Sayan G.
OPTICS EXPRESS, vol.17, no.18, pp.16046-16058, 2009 (SCI-Expanded)
- XXIV. **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, no.2, pp.766-776, 2005 (SCI-Expanded)
- XXV. **Natural resonance-based feature extraction with reduced aspect sensitivity for electromagnetic target classification**
Turhan-Sayan G.
Pattern Recognition, vol.36, no.7, pp.1449-1466, 2003 (SCI-Expanded)
- XXVI. **Temperature effects on surface plasmon resonance: Design considerations for an optical temperature sensor**
Ozdemir S., Turhan-Sayan G.
JOURNAL OF LIGHTWAVE TECHNOLOGY, vol.21, no.3, pp.805-814, 2003 (SCI-Expanded)
- XXVII. **Pole estimation for arbitrarily-shaped dielectric targets using genetic algorithm-based resonance annihilation technique**
Turhan-Sayan G., Kuzuoglu M.
ELECTRONICS LETTERS, vol.37, no.6, pp.380-381, 2001 (SCI-Expanded)
- XXVIII. **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 (SCI-Expanded)
- XXIX. **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 (SCI-Expanded)

- XXX. **FREQUENCY-DOMAIN MECHANISM EXTRACTION**
TURHANSAYAN G., DOMİNEK A.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.38, no.10, pp.1716-1719, 1990 (SCI-Expanded)
- XXXI. **K-PULSE ESTIMATION USING LEGENDRE POLYNOMIAL-EXPANSIONS AND TARGET DISCRIMINATION**
TURHANSAYAN G., MOFFATT D.
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.4, no.2, pp.113-128, 1990 (SCI-Expanded)
- XXXII. **K PULSE ESTIMATION AND TARGET IDENTIFICATION OF LOW Q RADAR TARGETS**
SAYAN G., MOFFATT D.
Wave Motion, vol.11, pp.453-461, 1989 (SCI-Expanded)

Articles Published in Other Journals

- I. **Sensitivity Analyses for All-Dielectric Absorber Structures Having Different Dielectric Resonator Geometries and Investigation of the Effect of Boundary Conditions on the Absorption Spectra**
KARACAN N., SAYAN G., EKMEKÇİ E.
Electrica, vol.24, no.1, pp.163-174, 2024 (ESCI)
- II. **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 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Detection and Recognition of Buried Conducting Objects Using Subsurface Microwave Images Constructed by Down-Looking GPR Measurements and by Energy-Based Target Features**
Dinc S., Elibol H., Guneri R., Ozdol A., Sik F., Yesilyurt I. T., DOĞAN M., SAYAN G.
AES (Advanced Electromagnetics Symposium) 2019, Lisbon, Portugal, 24 - 26 July 2019
- II. **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
- III. **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
- IV. **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
- V. **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
- VI. **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
- VII. **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

- VIII. **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
- IX. **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
- X. **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
- XI. **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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **Kızılötesi Bantlarda İnce Metamalzeme Sönümleyici Tasarımı**
ÜSTÜN K., SAYAN G.
URSI-TÜRKİYE'2016 VIII. Bilimsel Kongresi, Ankara, Turkey, 1 - 03 September 2016
- XVI. **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
- XVII. **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
- XVIII. **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
- XIX. **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

- XX. **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
- XXI. **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
- XXII. **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
- XXIII. **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
- XXIV. **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
- XXV. **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
- XXVI. **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
- XXVII. **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
- XXVIII. **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
- XXIX. **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
- XXX. **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
- XXXI. **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

- XXXII. **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
- XXXIII. **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
- XXXIV. **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
- XXXV. **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
- XXXVI. **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
- XXXVII. **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
- XXXVIII. **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
- XXXIX. **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
- XL. **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
- XLI. **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
- XLII. **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

- XLIII. 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
- XLIV. 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
- XLV. 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.
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Scientific Refereeing

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Scientific Consultations

TÜBİTAK-EEAG, Project Consultancy, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, Turkey, 2018 - 2019

Metrics

Publication: 99

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Non Academic Experience

Battelle Memorial Inst., Columbus, Ohio, A.B.D.

Ohio State University