

Assoc. Prof. HAYRETTİN ODABAŞI

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International Researcher IDs

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Education Information

Doctorate, Ohio State University, United States Of America 2008 - 2013

Postgraduate, Syracuse University {New York}, Elektrik Mühendisliği, United States Of America 2007 - 2008

Undergraduate, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Elektronik Mühendisliği Bölümü, Turkey 2001 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Novel Metamaterial Blueprints and Elements for Electromagnetic Applications, Ohio State University, 2013

Postgraduate, Quasi-yagi microstrip linear antenna arrays at 10 GHz, Syracuse University {New York}, Elektrik Mühendisliği, 2008

Research Areas

Electrical and Electronics Engineering, Electromagnetic

Academic Titles / Tasks

Associate Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2022 - Continues

Assistant Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2018 - 2022

Research Assistant, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2016 - 2018

Research Assistant, Gebze Technical University, Faculty Of Engineering, Department Of Electronics Engineering, 2005 - 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A low-cost and multifunctional long-life anthropomorphic head phantom for microwave brain imaging systems**
Salimitorkamani M., Mehranpour M., Cansiz G., Joof S., Akncı M. N., Akduman İ., ODABAŞI H.
Microwave and Optical Technology Letters, vol.66, no.3, 2024 (SCI-Expanded)
- II. **A Miniaturized Wide-Band Sinuous Antenna for Microwave Brain Imaging Systems**
Salimitorkamani M., Mehranpour M., ODABAŞI H.
IEEE Transactions on Antennas and Propagation, vol.72, no.3, pp.2228-2240, 2024 (SCI-Expanded)
- III. **Mutual Coupling Reduction Between Closely Placed Patch Antennas Using Complementary U-Shaped Polarization Converter**
Odabaşı H., Salimitorkamani M., Turan G.
IEEE Antennas and Wireless Propagation Letters, vol.22, no.11, pp.2710-2714, 2023 (SCI-Expanded)
- IV. **Mutual coupling reduction between closely spaced patch antennas using complementary electric-field-coupled resonators**
ODABAŞI H., Turan G., Salimitorkamani M.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.65, no.9, pp.2656-2665, 2023 (SCI-Expanded)
- V. **A multiband quasi-Yagi antenna using stepped driver and slotted ground for 2.4/3.5/5.2 GHz bands applications**
Turan G., Odabaşı H.
Microwave and Optical Technology Letters, vol.65, no.7, pp.2031-2038, 2023 (SCI-Expanded)
- VI. **A high-gain quasi-Yagi antenna using nested metaresonator structures**
Turan G., Odabaşı H.
Microwave and Optical Technology Letters, vol.65, no.6, pp.1755-1761, 2023 (SCI-Expanded)
- VII. **A compact ultrawideband slotted patch antenna for early stage breast tumor detection applications**
Salimitorkamani M., Mehranpour M., ODABAŞI H.
INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES, vol.15, no.4, pp.572-580, 2023 (SCI-Expanded)
- VIII. **A wideband quasi-Yagi antenna using symmetrical slots on the ground plane**
Turan G., Odabaşı H.
ELECTROMAGNETICS, vol.43, no.5, pp.349-360, 2023 (SCI-Expanded)
- IX. **A miniaturized quasi-Yagi antenna using defected ground structure and double dog-bone driver**
Turan G., Odabaşı H.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.64, no.2, pp.358-362, 2022 (SCI-Expanded)
- X. **A Simple dual-band quasi-Yagi antenna with defected ground structures**
Turan G., Odabaşı H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, no.1, pp.158-166, 2022 (SCI-Expanded)
- XI. **Limitations and potentials of generalized Veselago-Pendry lenses**
Odabaşı H.
JOURNAL OF OPTICS, vol.22, 2020 (SCI-Expanded)
- XII. **Controlling waveguide modes using PT transformation media**
Odabaşı H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, pp.458-467, 2020 (SCI-Expanded)
- XIII. **Generalized Veselago-Pendry lenses via complex transformation optics**
Odabaşı H., Teixeira F. L.
OPTICS EXPRESS, vol.27, pp.25670-25677, 2019 (SCI-Expanded)
- XIV. **Launching and controlling Gaussian beams from point sources via planar transformation media**
Odabaşı H., Sainath K., Teixeira F. L.
PHYSICAL REVIEW B, vol.97, 2018 (SCI-Expanded)

- XV. **Large Metasurface Aperture for Millimeter Wave Computational Imaging at the Human-Scale**
Gollub J. N., Yurduseven O., Trofetter K. P., Arnitz D., Imani M. F., Sleasman T., Boyarsky M., Rose A., Pedross-Engel A., Odabaşı H., et al.
SCIENTIFIC REPORTS, vol.7, 2017 (SCI-Expanded)
- XVI. **Comprehensive simulation platform for a metamaterial imaging system**
Lipworth G., Rose A., Yurduseven O., Gowda V. R., Imani M. F., Odabaşı H., Trofetter P., Gollub J., Smith D. R.
APPLIED OPTICS, vol.54, pp.9343-9353, 2015 (SCI-Expanded)
- XVII. **Resolution of the Frequency Diverse Metamaterial Aperture Imager**
Yurduseven O., Imani M. F., Odabaşı H., Gollub J., Lipworth G., Rose A., Smith D. R.
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.150, pp.97-107, 2015 (SCI-Expanded)
- XVIII. **Electric-field-coupled resonators as metamaterial loadings for waveguide miniaturization**
Odabaşı H., Teixeira F. L.
JOURNAL OF APPLIED PHYSICS, vol.114, 2013 (SCI-Expanded)
- XIX. **Electrically small, complementary electric-field-coupled resonator antennas**
Odabaşı H., Teixeira F. L., Guney D. O.
JOURNAL OF APPLIED PHYSICS, vol.113, 2013 (SCI-Expanded)
- XX. **Analysis of canonical low-profile radiators on isoimpedance metamaterial substrates**
Odabaşı H., Teixeira F. L.
RADIO SCIENCE, vol.47, 2012 (SCI-Expanded)
- XXI. **Impedance-matched absorbers and optical pseudo black holes**
Odabaşı H., Teixeira F. L., Chew W. C.
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS, vol.28, pp.1317-1323, 2011 (SCI-Expanded)
- XXII. **Anisotropic metamaterial blueprints for cladding control of waveguide modes**
Teixeira F. L., Odabaşı H., Warnick K. F.
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS, vol.27, pp.1603-1609, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of alignment errors on multi-static microwave imaging based on frequency-diverse metamaterial apertures**
Odabaşı H., Imani M. F., Lipworth G., Gollub J., Smith D. R.
Progress In Electromagnetics Research B, vol.70, pp.101-112, 2016 (Scopus)

Papers Published in Refereed Scientific Meetings

- I. **A Multiband Quasi-Yagi Antenna for WiFi/Bluetooth/WiMAX/Zigbee Applications**
Turan G., Odabaşı H.
2021 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (APS/URSI), Singapore, Singapore, 09 December 2021, pp.1613-1614
- II. **Time-Domain Field Solution for a Point Source Near a Complex Transformation Optics Flat Lens**
ODABAŞI H., Teixeira F. L.
2022 United States National Committee of URSI National Radio Science Meeting, USNC-URSI NRS2022, Colorado, United States Of America, 4 - 08 January 2022, pp.36-37
- III. **A Wideband Compact Quasi-Yagi Antenna with U-shaped Slots on The Ground Plane**
Turan G., Odabaşı H., Salimitorokamani M.
2021 XXXIVth General Assembly and Scientific Symposium of the International Union of Radio Science (URSI GASS), Rome, Italy, 28 August - 04 September 2021, pp.1-4

- IV. **Wide-band Meta-surface Antenna for Microwave Brain Imaging systems**
ODABAŞI H., TURAN G., MAHDI S.
2021 XXXIVth General Assembly and Scientific Symposium of the International Union of Radio Science (URSI GASS), Rome, Italy, 28 August - 04 September 2021
- V. **High-Gain Quasi-Yagi Antenna with Ring Shaped Electric Field Resonators**
Turan G., Odabaşı H.
URSI-TÜRKİYE 2021 X: Bilimsel Kongresi, Kocaeli, Turkey, 7 - 09 September 2021, pp.1-3
- VI. **Modifiye Tamamlayıcı Yarıklı Elektrik Alan Bağlaşık Rezonatörler ile Yama Antenler Arasında Karşılıklı Bağlaşım Azaltma**
Odabaşı H., Turan G.
URSI-TÜRKİYE 2021 X: Bilimsel Kongresi, Kocaeli, Turkey, 7 - 09 September 2021, pp.1-3
- VII. **A Miniaturized Quasi-Yagi Antenna with Double Dog-bone Driver**
Turan G., Odabaşı H.
International Symposium on Antenna Technology and Applied Electromagnetics, Winnipeg, Canada, 8 - 11 August 2021, pp.1-2
- VIII. **Far-Field Synthesis from Complex Point Sources via Transformation Metamaterials**
Odabaşı H., Teixeira F. L.
19th IEEE International Symposium on Antenna Technology and Applied Electromagnetics, ANTEM 2021, Winnipeg, Canada, 8 - 11 August 2021
- IX. **A Dual-Band Microstrip Patch Antenna for Brain-Machine Interface Applications**
Salimitorkamani M., ODABAŞI H., NAJAFI A.
15th European Conference on Antennas and Propagation, EuCAP 2021, Düsseldorf, Germany, 22 - 26 March 2021
- X. **Ayrıştırılmış Tamamlayıcı Ayrık Halkalı Rezonatörler ile Karşılıklı Bağlaşım Düşürümü**
Odabaşı H.
ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI, Bursa, Turkey, 26 - 28 November 2020, pp.71-73
- XI. **Complex transformation optics and generalized double negative layers**
ODABAŞI H., Teixeira F. L.
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.1397-1398
- XII. **Real Sources in Complex Spaces**
ODABAŞI H., Teixeira F. L.
12th International Congress on Artificial Materials for Novel Wave Phenomena, METAMATERIALS 2018, Espoo, Finland, 27 August - 01 September 2018, pp.302-304
- XIII. **Complex Sources, Gaussian Beams, and Transformation Optics**
ODABAŞI H., Sainath K., Na D., Teixeira F. L.
2018 IEEE Antennas and Propagation Society International Symposium and USNC/URSI National Radio Science Meeting, APSURSI 2018, Massachusetts, United States Of America, 8 - 13 July 2018, pp.921-922
- XIV. **Computational imaging using frequency-diverse metasurfaces**
Gollub J. N., Yurduseven O., Imani M. F., ODABAŞI H., Sleasman T., Trofetter P., Boyarsky M., Marks D., Smith D. R.
11th European Conference on Antennas and Propagation, EUCAP 2017, Paris, France, 19 - 24 March 2017, pp.1208-1211
- XV. **Security screening via computational imaging using frequency-diverse metasurface apertures**
Smith D. R., Reynolds M. S., Gollub J. N., Marks D. L., Imani M. F., Yurduseven O., Arnitz D., Pedross-Engel A., Sleasman T., Trofetter P., et al.
Conference on Passive and Active Millimeter-Wave Imaging XX, California, United States Of America, 13 April 2017, vol.10189
- XVI. **Comparison of different reconstruction algorithms for image reconstruction in metamaterial aperture based imaging system**
Yurduseven O., Gollub J., ODABAŞI H., Imani M. F., Lipworth G., Rose A., Trofetter P., Smith D. R.
9th European Conference on Antennas and Propagation, EuCAP 2015, Lisbon, Portugal, 13 - 17 May 2015

- XVII. **Probe configuration study for the metamaterial aperture imager**
Yurduseven O., Gollub J., ODABAŞI H., Imani M. F., Lipworth G., Rose A., Trofetter P., Smith D. R.
9th European Conference on Antennas and Propagation, EuCAP 2015, Lisbon, Portugal, 13 - 17 May 2015
- XVIII. **Complementary electric-field-coupled (CELC) based resonator antennas**
ODABAŞI H., Teixeira F. L.
2013 IEEE Antennas and Propagation Society International Symposium, APSURSI 2013, Orlando, FL, United States Of America, 7 - 13 July 2013, pp.772-773
- XIX. **Metamaterial claddings for waveguide miniaturization**
ODABAŞI H., Teixeira F. L.
2013 USNC-URSI Radio Science Meeting (Joint with AP-S Symposium), USNC-URSI 2013, Orlando, FL, United States Of America, 7 - 13 July 2013, pp.60
- XX. **Analysis of metamaterial absorber blueprints for optical 'black holes'**
ODABAŞI H., Teixeira F. L., Chew W. C.
2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Turkey, 13 - 20 August 2011
- XXI. **Analysis of cylindrically conformal patch antennas on isoimpedance anisotropic substrates**
Odabaşı H., Teixeira F. L.
2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Turkey, 13 - 20 August 2011
- XXII. **Impedance analysis of extremely low-profile antennas using metamaterial substrates**
ODABAŞI H., Teixeira F. L.
2010 IEEE 21st International Symposium on Personal Indoor and Mobile Radio Communications, PIMRC 2010, İstanbul, Turkey, 26 - 30 September 2010, pp.1107-1110

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