

Res. Asst. HANDE İBİLİ

Personal Information

Email: ibili@metu.edu.tr

Web: <https://avesis.metu.edu.tr/ibili>

Education Information

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), Turkey 2016 - Continues

Undergraduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2011 - 2018

Research Areas

Electromagnetic Waves, Antennas and Propagation

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2017 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Computational design of nanoantennas with improved power enhancement capabilities via shape optimization**
Işıklar G., Yazar Ş., İbili H., Onay G., El Ahdab Z., Ergül Ö.
Optical Engineering, vol.62, no.1, 2023 (SCI-Expanded)
- II. **A novel surface-integral-equation formulation for efficient and accurate electromagnetic analysis of near-zero-index structures**
İBİLİ H., Koyaz Y., Ozmu U., Karaosmanoglu B., ERGÜL Ö. S.
JOURNAL OF OPTICS, vol.24, no.3, 2022 (SCI-Expanded)
- III. **Demonstration of negative refractive index with low-cost inkjet-printed microwave metamaterials**
İBİLİ H., Karaosmanoglu B., Ergül O.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.60, no.1, pp.187-191, 2018 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Realization of Multiband Microwave Metamaterials Fabricated via Low-Cost Inkjet Printing**
İBİLİ H., KELES S., ERIS O., ERGÜL Ö. S.
European Microwave Conf. in Central Europe(EuMCE), 13 - 15 May 2019
- II. **Inkjet-printed frequency-selective structures based on improved arrangements of U-shaped resonators**

ERIS O., İBİLİ H., ERGÜL Ö. S.

European Microwave Conf. in Central Europe(EuMCE), 13 - 15 May 2019

- III. **Fast and accurate analysis of three-dimensional structures involving near-zero-index materials**
Karaosmanoglu B., Koyaz Y., İbili H., Ergul Ö. S.
21st International Conference on Electromagnetics in Advanced Applications, ICEAA 2019, Granada, Spain, 9 - 13 September 2019, pp.1019-1024
- IV. **Multiband Microwave Metamaterials Based on Optimized Arrangements of Split-Ring Resonators**
İBİLİ H., KELES S., ERGÜL Ö. S.
Photonics and Electromagnetics Research Symposium, 17 - 21 June 2019
- V. **Inkjet-printed frequency-selective structures based on improved arrangements of u-shaped resonators**
Eris O., İBİLİ H., Ergul Ö. S.
2019 European Microwave Conference in Central Europe, EuMCE 2019, Prague, Czech Republic, 13 - 15 May 2019, pp.39-42
- VI. **Realization of multiband microwave metamaterials fabricated via low-cost inkjet printing**
İBİLİ H., Keles S., Eris O., Ergul Ö. S.
2019 European Microwave Conference in Central Europe, EuMCE 2019, Prague, Czech Republic, 13 - 15 May 2019, pp.35-38
- VII. **Double-layer modeling to overcome internal resonance problem of MFIE**
İbili H., Ergül Ö. S.
2018 Progress in Electromagnetics Research Symposium (PIERS-Toyama), Toyama, Japan, 1 - 04 August 2018
- VIII. **Analysis of Composite Structures Involving Near-Zero-Index Materials**
Koyaz Y., İBİLİ H., Karaosmanoglu B., Ergul O.
IEEE International Conference on Microwaves, Antennas, Communications and Electronic Systems (COMCAS), Tel-Aviv-Yafo, Israel, 4 - 06 November 2019
- IX. **MFIE-Based Formulation Using Double-Layer Modeling for Perfectly Conducting Objects**
Guler S., İBİLİ H., Ergul O.
IEEE International Conference on Microwaves, Antennas, Communications and Electronic Systems (COMCAS), Tel-Aviv-Yafo, Israel, 4 - 06 November 2019
- X. **Homogenization of Microwave Metamaterial Structures Using Full-Wave Solutions and Genetic Algorithms**
İBİLİ H., Karaosmanoglu B., ERGÜL Ö. S.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.244-246
- XI. **Penetrable Numerical Modeling of Metallic Nanoparticles at Terahertz Frequencies**
İBİLİ H., Guler S., Karaosmanoglu B., ERGÜL Ö. S.
Progress in Electromagnetics Research Symposium (PIERS-Toyama), Toyama, Japan, 1 - 04 August 2018, pp.2273-2279
- XII. **Mitigating internal resonances of the magnetic-field integral equation via double-layer modeling**
Güler S., İBİLİ H., Ergül Ö. S.
12th European Conference on Antennas and Propagation, EuCAP 2018, London, United Kingdom, 9 - 13 April 2018, vol.2018
- XIII. **Design and Fabrication of Low-Cost Inkjet-Printed Metamaterials**
İBİLİ H., Karaosmanoglu B., ERGÜL Ö. S.
4th International Electromagnetic Compatibility Conference (EMC Turkiye), Ankara, Turkey, 24 - 27 September 2017
- XIV. **Very Low-Cost Inkjet-Printed Metamaterials: Progress and Challenges**
İBİLİ H., ERGÜL Ö. S.
IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes for RF and THz Applications (IMWS-AMP), Pavia, Italy, 20 - 22 September 2017
- XV. **Inkjet-Printed Pixel Antennas with Hexagonal Cells**
Karaosmanoglu B., Guler S., İBİLİ H., Ergul O.

11th European Conference on Antennas and Propagation (EUCAP), Paris, France, 19 - 24 March 2017, pp.2013-2016

Metrics

Publication: 18

Citation (WoS): 12

Citation (Scopus): 11

H-Index (WoS): 2

H-Index (Scopus): 2

Awards

İbili H., Yarman Carlin Award First Prize, 18Th Mediterranean Microwave Symposium, November 2018