

## Res. Asst. ABDURRAHİM MURATOĞLU

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: A-4240-2018

ScopusID: 57190578007

Yoksis Researcher ID: 249330

### Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 2019 - Continues

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 2016 - 2019

Postgraduate, Gaziantep University, Faculty Of Engineering, Electrical - Electronics Engineering, Turkey 2016 - 2019

Undergraduate, Gaziantep University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü (İngilizce), Turkey 2011 - 2015

### Foreign Languages

German, B1 Intermediate

English, C1 Advanced

### Research Areas

Electromagnetic, Aeronautical and Space Engineering, Flight Control Systems, Orientation and Orbit Control, Control techniques

### Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Aerospace Engineering, 2016 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- Reference-plane-invariant waveguide method for electromagnetic characterization of bi-axial bianisotropic metamaterials**  
HASAR U. C., Yildiz G., BUTE M., Muratoglu A.  
SENSORS AND ACTUATORS A-PHYSICAL, vol.283, pp.141-150, 2018 (SCI-Expanded)

- II. **Calibration-free extraction of constitutive parameters of magnetically coupled anisotropic metamaterials using waveguide measurements**  
HASAR U. C., BULDU G., BUTE M., Muratoglu A.  
REVIEW OF SCIENTIFIC INSTRUMENTS, no.10, 2017 (SCI-Expanded)
- III. **Effective Constitutive Parameters Retrieval Method for Bianisotropic Metamaterials Using Waveguide Measurements**  
Hasar U. C., MURATOĞLU A., Bute M., Barroso J. J., ERTUĞRUL M.  
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.65, no.5, pp.1488-1497, 2017 (SCI-Expanded)
- IV. **Boundary Effects on the Determination of Electromagnetic Properties of Bianisotropic Metamaterials From Scattering Parameters**  
Hasar U. C., Barroso J. J., Bute M., MURATOĞLU A., ERTUĞRUL M.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.64, no.8, pp.3459-3469, 2016 (SCI-Expanded)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Understanding Hydrodynamics of Tuna Fish Hydrofoil using CFD Simulations**  
MURATOĞLU A., MURATOĞLU A.  
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 September 2017
- II. **Coupling Analysis of Resonating Metamaterial Slabs for The Role of EMC Problems**  
HASAR U. C., BUTE M., Muratoglu A.  
4th International Electromagnetic Compatibility Conference (EMC Turkiye), Ankara, Turkey, 24 - 27 September 2017
- III. **New approaches for enhancements on transmission of electromagnetic signals**  
BUTE M., HASAR U. C., MURATOĞLU A.  
2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, Turkey, 15 - 18 May 2017
- IV. **Constitutive parameters determination of bi-anisotropic metamaterials using a waveguide method**  
HASAR U. C., BUTE M., MURATOĞLU A., BAROSSO J. J., KARACALI T., ERTUĞRUL M.  
2015 SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference (IMOC), Porto de Galinhas, Brazil, Brazil, 3 - 06 November 2015
- V. **Application of Several Boundary Conditions for Bi-anisotropic Metamaterial Structures and Investigation of Electromagnetic Response**  
MURATOĞLU A., UÇKUN S.  
The 3rd EMC Türkiye Conference, İstanbul, Turkey, 2 - 04 September 2015

### **Metrics**

Publication: 9

Citation (WoS): 86

Citation (Scopus): 94

H-Index (WoS): 3

H-Index (Scopus): 3

### **Non Academic Experience**

ASIA-PASIFIC SPACE COOPERATION ORGANIZATION (APSCO)