

## Res. Asst. PhD ATALAY KOCAKUŞAK

### Personal Information

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**Address:** Akdeniz Üniversitesi Mühendislik Fakültesi Elektrik-Elektronik Müh. Bölümü.

### International Researcher IDs

ScholarID: MvVvd8wAAAAJ

ORCID: 0000-0002-2457-4426

Publons / Web Of Science ResearcherID: I-7676-2017

ScopusID: 56419865900

Yoksis Researcher ID: 267953

### Education Information

Doctorate, Akdeniz University, Institute of Science, Elektrik Elektronik Mühendisliği Anabilimdalı, Turkey 2017 - Continues

Postgraduate, Akdeniz University, Institute of Science, Elektrik Elektronik Mühendisliği Anabilimdalı, Turkey 2014 - 2017

Undergraduate, Akdeniz University, Faculty Of Engineering, Elektrik Elektronik Mühendisliği Bölümü, Turkey 2010 - 2014

### Foreign Languages

English, C1 Advanced

### Dissertations

Postgraduate, Harmanlanmış kapalı mekan konum tespit sistemi tasarımı, Akdeniz University, 2017

### Research Areas

Electrical and Electronics Engineering, Electromagnetic, Physics of Plasmas, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Akdeniz University, Institute of Science, Institute of Science, 2017 - Continues

Researcher, Università Degli Studi di Padova, Department of Information Engineering, 2021 - 2022

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

1. Investigation of the Radiated Emission of Honeycomb Structured Aluminum Foam/Cellular Heatsinks at 1-10 GHz

Genç A., Doğan H., Turhan L., Kocakuşak A., Helhel S.

MATERIALS CHEMISTRY AND PHYSICS, vol.1, pp.1-10, 2024 (SCI-Expanded)

- II. **Experimental investigation of electromagnetic interference behavior of PCB heatsinks according to feeding point in 1-10 GHz band PCB soğutucuların besleme noktasına göre elektromanyetik girişim davranışlarının 1-10 GHz bandında deneysel olarak incelenmesi**  
Karaman A. B., Başyığıt İ. B., Doğan H., Genç A., Kocakuşak A., Çolak B., Helhel S.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.38, no.2, pp.733-742, 2023 (SCI-Expanded)
- III. **Marble Pre-selection Chart to Suppress EMF in S-Band and SAR Reduction Capabilities of Them at 2.45 GHz**  
Kocakusak A., Helhel S.  
IETE JOURNAL OF RESEARCH, vol.69, no.8, pp.5681-5690, 2023 (SCI-Expanded)
- IV. **Heatsinks as quasi-antennas and frog forming: frequency and feeding point effect**  
HELHEL S., KARAMAN A. B., KOCAKUŞAK A.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.35, no.16, pp.2153-2162, 2021 (SCI-Expanded)
- V. **Determining loss tangent values of dry granite for potential S-band applications**  
HELHEL S., KOCAKUŞAK A., Sunel M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.62, no.11, pp.3476-3484, 2020 (SCI-Expanded)
- VI. **Investigation of electromagnetic shielding and absorbing capabilities of cementitious composites with waste metallic chips**  
Cakir M., KOÇKAL N. U., ÖZEN Ş., KOCAKUŞAK A., HELHEL S.  
JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, vol.51, no.1, pp.31-42, 2017 (SCI-Expanded)
- VII. **Frequency dependent complex dielectric permittivity of rubber and magnolia leaves and leaf water content relation**  
KOCAKUŞAK A., Colak B., HELHEL S.  
JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, vol.50, no.4, pp.294-307, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **THE EFFECT OF MOISTURE CONTENT ON ELECTRICAL PROPERTIES OF SELECTED SOFTWOODS; CEDAR, JUNIPER, AND PINE**  
Alsaadi S. S. J., KOCAKUŞAK A., HELHEL S.  
Journal of Engineering and Sustainable Development, vol.28, no.1, pp.35-54, 2024 (Scopus)
- II. **Improved indoor location systems in a controlled environments**  
HELHEL S., KOCAKUŞAK A.  
Telkomnika (Telecommunication Computing Electronics and Control), vol.14, no.2, pp.748-756, 2016 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Estimation of The Level of Corrosion in Columns in Buildings by Using Wide Band Microwave Systems**  
Irmak G., Sapmaz E., Akgün E., KOCAKUŞAK A., Başyığıt I. B., ALBAYRAK Y., HELHEL S.  
14th International Conference on Electrical and Electronics Engineering, ELECO 2023, Virtual, Bursa, Turkey, 30 November - 02 December 2023
- II. **An Empiric Mathematical Models to Predict Electrical Properties of Natural Juniper Wood Samples by Using Non-Distractive Methods**  
Alsaadi S. S. J., KOCAKUŞAK A., ALBAYRAK Y., HELHEL S.

2023 Photonics and Electromagnetics Research Symposium, PIERS 2023, Prague, Czech Republic, 3 - 06 July 2023, pp.707-713

- III. **Preliminary Results of Near Field Microwave Imaging System for Dielectric Material**  
Menguc E., Eren M., KOCAKUŞAK A., HELHEL S.  
2023 Photonics and Electromagnetics Research Symposium, PIERS 2023, Prague, Czech Republic, 3 - 06 July 2023, pp.960-967
- IV. **S Band Monopole Plasma Antenna Design and Beam Forming Application by Plasma Columns**  
KOCAKUŞAK A., HELHEL S.  
2023 Photonics and Electromagnetics Research Symposium, PIERS 2023, Prague, Czech Republic, 3 - 06 July 2023, pp.1881-1886
- V. **Investigation of Usage Possibility FMCW Radar for Non-Destructive Corrosion Detection in Building Structures**  
Eren M., Menguc E., KOCAKUŞAK A., HELHEL S.  
2023 Photonics and Electromagnetics Research Symposium, PIERS 2023, Prague, Czech Republic, 3 - 06 July 2023, pp.978-985
- VI. **Floresan Tüpler Kullanarak Plazma Anten Dizisi Tasarımı**  
Çiflik M., Kocakuşak A., Helhel S.  
X. URSI-TÜRKİYE 2021 BİLİMSEL KONGRESİ, Kocaeli, Turkey, 7 - 09 September 2021, pp.1-3
- VII. **Investigation of Dielectric and Microwave Heating Properties of Bricks**  
SÜNEL M., KOCAKUŞAK A., HELHEL S.  
PIERS Photonics & Electromagnetics Research Symposium, Roma, Italy, 17 - 20 June 2019, vol.77, no.77, pp.223
- VIII. **The Effect of Feeding Point on Electromagnetic Emission Due to Heat Sink**  
Karaman A. B., KOCAKUŞAK A., Genc A., HELHEL S.  
Photonics and Electromagnetics Research Symposium - Spring (PIERS-Spring), Rome, Italy, 17 - 20 June 2019, pp.368-371
- IX. **C bandı Hava Durumu Radarları İçin U şeklinde Metamateryal Tabanlı Radar Soğurucu Malzeme Tasarımı**  
KOCAMAN Z., KOCAKUŞAK A., KARAMAN A. B., HELHEL S.  
URSI 2018 Türkiye, Konya, Turkey, 6 - 08 September 2018, vol.1, no.1, pp.1
- X. **2 Tabakalı Asfalt Yol Katman Kalınlıklarının 3GHz'de Çalışan YGR ve 2-Boyutlu FDTD Kullanılarak Belirlenmesi**  
YALIN B., KOCAKUŞAK A., ÖZEN Ş., HELHEL S.  
IX.URSI-TÜRKİYE 2018 BİLİMSEL KONGRESİ ULUSAL GENEL KURUL TOPLANTISI,, Konya, Turkey, 6 - 08 September 2018, vol.9, no.1, pp.1-4
- XI. **Design of A Triple Band Absorber Metamaterial for C-Band Radars with Golden Ratio Approaches**  
KOCAMAN Z., KOCAKUŞAK A., BAİŞYİĞİT B., ÖZEN Ş., HELHEL S.  
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES), Karabük, Turkey, 11 - 13 May 2018, vol.1, no.1, pp.8-11
- XII. **Yapı Malzemelerinin Mikrodalga Frekans Bölgesi için Dielektrik Özelliklerinin Belirlenmesi ve Ekran Etkinliğinin Analizi**  
ÇAKIR M., KOÇKAL N. U., ÖZEN Ş., HELHEL S., KOCAKUŞAK A.  
VIII. URSI-TÜRKİYE'2016 BİLİMSEL KONGRESİ ve ULUSAL GENEL KURUL TOPLANTISI, Ankara, Turkey, 1 - 03 September 2016
- XIII. **Evaluation of Electromagnetic Interference Emitted from Compact Fluorescent Lamps According to CISPR-15 and Filter Design**  
KOCAKUŞAK A., ÇAKIR M., ÖZEN Ş., HELHEL S.  
36 th Progress in Electromagnetic Research, Prag, Czech Republic, 5 - 09 June 2015, vol.1, no.1, pp.1-4
- XIV. **WLAN Based Indoor Locating Systems Enhanced by Ultrasonic Sensors; Hybrid Indoor Locating Systems (HILOs)**  
HELHEL S., KOCAKUŞAK A., ALBAYRAK Y., ÖZEN Ş.  
36 th Progress in Electromagnetic Research, Prag, Czech Republic, 5 - 09 June 2015, vol.1, no.1, pp.1-4

- XV. **WLAN Based Indoor Positioning in Building Halls by Using Trilateral Method**  
HELHEL S., KOCAKUŞAK A.  
The 31st International Review of Progress in Applied Computational Electromagnetics, Virginia, United States Of America, 21 - 26 March 2015, vol.31, pp.246-247
- XVI. **Evaluation of electromagnetic interference emitted from compact fluorescent lamps according to CISPR-15**  
KOCAKUŞAK A., ÇAKIR M., Yalçın S., ÖZEN Ş., HELHEL S.  
Progress In Electromagnetics Research Symposium, vol.2015-January, pp.1133-1136
- XVII. **Yol Kaybı İndeks Hesabı ve WiFi Tabanlı Kontrolsüz Gezginlerden Arındırılmış Bina İçi Konum Tespit Sistemi**  
HELHEL S., KOCAKUŞAK A.  
VII. URSI-Türkiye Bilimsel Kongresi, Elazığ, Turkey, 28 - 30 August 2014, vol.1, no.12, pp.1-4
- XVIII. **Algorithms for Indoor Localization on WLAN Networks Applications**  
HELHEL S., KOCAKUŞAK A.  
Progress in Electromagnetics Research Symposium (PIERS), Guangzhou, China, 25 - 28 August 2014, pp.2174-2177

## Supported Projects

- HELHEL S., KOCAKUŞAK A., SÜNEL M., Project Supported by Higher Education Institutions, Mermer Tabanlı Bazı Süs Taşları İçin CBandı Dielektrik Katsayı Kataloğunun Oluşturulması, 2019 - 2020
- ÖZEN Ş., ATEŞ K., KOCAKUŞAK A., KESKİN H. İ., Project Supported by Higher Education Institutions, Düzlemsel Malzemelerin Elektromanyetik Ekranlama Etkinliğinin Belirlenebilmesi için Koaksiyel Ölçüm Sistemi Tasarımı ve Üretimi, 2018 - 2020
- HELHEL S., KARAMAN A. B., KURT M. B., KOCAKUŞAK A., GENÇ A., Project Supported by Higher Education Institutions, En Çok 200W Güç Harcayan Devreler İçin 30MHz - 230MHz Bandında Minimum Işıma Yapan Metalik Soğutucu Tasarımı ve Tasarım Yönteminin Geliştirilmesi, 2018 - 2019

## Memberships / Tasks in Scientific Organizations

Elektrik Mühendisleri Odası, Member, 2014 - Continues, Turkey

## Scientific Refereeing

- ADVANCED ELECTROMAGNETICS, Journal Indexed in ESCI, February 2022
- ADVANCED ELECTROMAGNETICS, Journal Indexed in ESCI, May 2021
- ADVANCED ELECTROMAGNETICS, Journal Indexed in ESCI, November 2020
- ADVANCED ELECTROMAGNETICS, SCI Journal, December 2019
- Journal of Microwave Power and Electromagnetic Energy , SCI Journal, April 2019

## Scientific Research / Working Group Memberships

Elektromanyetik Araştırma Grubu , Akdeniz University, Turkey, <https://avesis.akdeniz.edu.tr/arastirma-grubu/emag>, 2023 - Continues

## Metrics

Publication: 27  
Citation (WoS): 48  
Citation (Scopus): 65  
H-Index (WoS): 3  
H-Index (Scopus): 4

## **Congress and Symposium Activities**

PIERS 2023, Attendee, Praha, Czech Republic, 2023  
URSI 2021, Attendee, Kocaeli, Turkey, 2021  
URSI 2018 Türkiye, Attendee, Konya, Turkey, 2018  
URSI 2014 Türkiye, Attendee, Elazığ, Turkey, 2014

## **Scholarships**

2224-A Yurt Dışı Bilimsel Etkinliklere Katılımı Destekleme Programı, TUBITAK, 2023 - 2023  
2211-C Yurt İçi Öncelikli Alanlar Doktora Burs Programı, TUBITAK, 2020 - 2023  
2214 - Yurt Dışı Doktora Sırası Araştırma Burs Prog., TUBITAK, 2021 - 2022