

## Res. Asst. MUSTAFA KIRLAR

### Personal Information

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### International Researcher IDs

ScholarID: GfdJhc4AAAAJ

ORCID: 0000-0003-0290-1526

Publons / Web Of Science ResearcherID: AAM-7708-2021

ScopusID: 58196158600

Yoksis Researcher ID: 282518

### Education Information

Doctorate, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, Turkey 2019 - Continues

Postgraduate, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, Turkey 2014 - 2019

Undergraduate, Erciyes University, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, Turkey 2008 - 2012

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Other, SOLIDWORKS KATI MODELLEME, SETA MÜHENDİSLİK, 2014

Occupational Health and Safety, C SINIFI İŞ GÜVENLİĞİ UZMANLIĞI, ÇSGB, 2013

### Dissertations

Postgraduate, DESIGN OF PLASMONIC NANOANTENNA ARRAYS INDICATING PERFECT ABSORPTION IN DUAL BAND,

Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, 2019

### Research Areas

Electrical and Electronics Engineering, Electromagnetic, Electric and Magnetic Fields, Electromagnetic Waves, Antennas and Propagation, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, 2018 - Continues

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

- I. **Simple and hybrid metalens with high polarization conversion efficiency for near-infrared spectrum**  
Kırlar M., Aslan E., Aslan E., Turkmen M.  
Optical Materials, vol.157, 2024 (SCI-Expanded)
- II. **Tungsten disulfide based anisotropic metalens for refractive index sensing applications in visible region**  
Kırlar M., Aslan E., Aslan E., Türkmen M.  
OPTİK, vol.290, pp.1-10, 2023 (SCI-Expanded)
- III. **Numerical analysis of spectrally tunable and polarization independent dual band plasmonic perfect absorber**  
Kırlar M., Türkmen M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.38, no.4, pp.2025-2032, 2023 (SCI-Expanded)
- IV. **Ultra narrowband perfect absorber for refractive index sensing applications in mid-infrared region**  
Kırlar M., Turkmen M.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.37, no.6, pp.803-813, 2023 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Görünür Bölgede Galyum Katkılı Çinko Oksit Metalensin Tasarımı**  
Kırlar M., Aslan E., Türkmen M., Aslan E.  
URSI-TÜRKİYE 2023 XI. Bilimsel Kongresi, İstanbul, Turkey, 31 August - 02 September 2023, pp.1-3
- II. **Tungsten Disulfide Metalens in Visible Region**  
Kırlar M., Aslan E., Aslan E., Türkmen M.  
17th INTERNATIONAL NANOSCIENCE & NANOTECHNOLOGY CONFERENCE, İzmir, Turkey, 27 - 29 August 2023, pp.127
- III. **Iron Cross Shaped Nanoaperture Based Dual Band Plasmonic Perfect Absorbers for Bio-Sensing Applications**  
Onur A., Kırlar M., Türkmen M.  
10th International Conference on Advanced Technologies, Van, Turkey, 25 November - 27 December 2022, pp.414-418
- IV. **Fractal Based Nanoantenna Arrays For Biosensing Applications**  
TÜRKMEN M., ASLAN E., KIRLAR M.  
NRW Nano Conference – Innovations in Materials and Applications, 20 - 22 November 2018
- V. **Fractal plasmonic metamaterials for biosensing applications**  
Türkmen M., Kırlar M., Aslan E.  
8th NRW Nano-Conference, Dortmund, Germany, 21 - 22 November 2018, pp.1
- VI. **Spektroskopi Uygulamalarında Kullanılabilecek Parçacık Tabanlı Plazmonik Nanoanten Dizilerinin Tasarımı**  
Kırlar M., Onur A., Türkmen M., Kaya S.  
VIII. URSI-TÜRKİYE'2016 BİLİMSEL KONGRESİ, Ankara, Turkey, 1 - 03 September 2016, pp.1
- VII. **Optical Characteristics of UT-Shaped Multi-Resonant Metamaterials**  
Kırlar M., Türkmen M., Kaya S.  
12th Nanoscience and Nanotechnology Conference (NanoTR-12), Kocaeli, Turkey, 3 - 05 June 2016, pp.1

## Supported Projects

Aslan E., TUBITAK Project, Kızılötesi ve Görünür Dalga Boyları için Meta-Lenslerin Tasarım, Üretim ve Karakterizasyonu, 2022 - 2025

## **Metrics**

Publication: 11

Citation (WoS): 5

Citation (Scopus): 7

H-Index (WoS): 1

H-Index (Scopus): 2

## **Non Academic Experience**

Kayseri İncesu OSB

Hasçelik Kablo Sanayi ve Ticaret A.Ş.

ASPILSAN Enerji Sanayi Ticaret A.Ş.

Karel İnş. Elk. Tur. San. ve Tic. A.Ş.

Dener Mak. San. ve Tic. Ltd. Şti.