

## Asst. Prof. EKİN ASLAN

### Personal Information

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### Biography

Dr. Ekin Aslan received the B.S. degree in Electronics Engineering in 2004 from Erciyes University, Kayseri, M.S. degree in Electrical and Electronics Engineering in 2011 from Mustafa Kemal University, Hatay and Ph.D. degree from the Electrical and Electronics Engineering department of Erciyes University, Kayseri, Turkey. She worked as an Assistant Professor in the Departments of Electrical and Electronics Engineering at Nuh Naci Yazgan University and Hatay Mustafa Kemal University. She is currently working as an Assistant Professor in the Department of Electrical and Electronics Engineering of Kayseri University. Her research interests include integrated plasmonic systems for bio-detection, vibrational spectroscopy, plasmonic metamaterials, computational and experimental electromagnetics and nanophotonic devices. Dr. Aslan was a recipient of the Doctoral Research Fellowship from the Scientific and Technological Research Council of Turkey (TUBITAK) (2214-A).

### Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, -, Turkey 2012 - 2017

Post Graduate, Hatay Mustafa Kemal University, Graduate School Of Natural And Applied Sciences, Turkey 2008 - 2011

Under Graduate, Erciyes University, Mühendislik Fakültesi, Electronics Engineering , Turkey 1999 - 2004

### Foreign Languages

English, C2 Mastery

### Dissertations

Doctorate, Design and fabrication of fractal shaped plasmonic nanoantenna arrays for biosensing applications, Erciyes University, Fen Bilimleri Enstitüsü, -, 2017

Post Graduate, TEM mode electromagnetic wave radiation from semi-infinite parallel plate waveguide with sinusoidal wall corrugation, Hatay Mustafa Kemal University, Graduate School Of Natural And Applied Sciences, 2011

### Research Areas

Electrical and Electronics Engineering, Nanotechnology, Optics and Photonics, Electromagnetic Waves, Antennas and Propagation, Photonic Band Spacing Structures, Planar Buildings, Optical Materials and Devices

## Academic Titles / Tasks

Assistant Professor, Kayseri University, Mühendislik, Mimarlık Ve Tasarım Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2021 - Continues  
Assistant Professor, Hatay Mustafa Kemal University, Faculty Of Engineering, 2018 - 2021  
Assistant Professor, Nuh Naci Yazgan University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2017 - 2018  
Visiting Lecturer, Erciyes University, Kayseri Meslek Yüksekokulu, 2017 - 2017  
Research Assistant, Hatay Mustafa Kemal University, Faculty Of Engineering, 2010 - 2013

## Academic and Administrative Experience

Birim Stratejik Plan Komisyonu Üyesi, Kayseri University, Mühendislik, Mimarlık Ve Tasarım Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2021 - Continues  
Deputy Head of Department, Kayseri University, Mühendislik, Mimarlık Ve Tasarım Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2021 - Continues  
Assistant Manager of Research and Application Center, Kayseri University, KALİTE VE STRATEJİ GELİŞTİRME UYGULAMA VE ARAŞTIRMA MERKEZİ, 2021 - Continues  
Birim Kalite Komisyonu Üyesi, Kayseri University, Mühendislik, Mimarlık Ve Tasarım Fakültesi, 2021 - Continues  
Birim Kalite Komisyonu Üyesi, Hatay Mustafa Kemal University, Faculty Of Engineering, 2020 - 2021  
Yüksekokul Yönetim Kurulu Üyesi, Hatay Mustafa Kemal University, Vocational School, 2019 - 2021  
Vice Dean, Hatay Mustafa Kemal University, Faculty Of Engineering, 2019 - 2021  
Head of Department, Hatay Mustafa Kemal University, Faculty Of Engineering, 2018 - 2021

## Courses

Elektronik Devreler-II, Under Graduate, 2017 - 2018  
Mühendislik Matematği-II, Under Graduate, 2017 - 2018  
Elektromanyetik Dalga Teorisi, Under Graduate, 2017 - 2018  
Lojik Devre Tasarımı, Under Graduate, 2017 - 2018  
Bitirme Ödevi, Under Graduate, 2017 - 2018  
Lojik Laboratuvarı, Under Graduate, 2017 - 2018  
Nanomalzemelerin ve Nanoteknolojinin Temelleri, Under Graduate, 2017 - 2018  
Elektrik-Elektronik Mühendisliğine Giriş, Under Graduate, 2017 - 2018  
Elektronik Elemanlar, Under Graduate, 2017 - 2018  
Sayısal Elektronik, Associate Degree, 2016 - 2017  
Analog Elektronik, Associate Degree, 2016 - 2017  
Elektronik Tasarım ve Uygulamaları, Under Graduate, 2017 - 2018  
Mühendislik Matematği- I, Under Graduate, 2017 - 2018  
Lojik Devrelere Giriş, Under Graduate, 2017 - 2018  
Bilgisayar Destekli Tasarım, Associate Degree, 2016 - 2017

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Lensing for optical communication by diffraction from Peano curve-based fractal with alternative plasmonic material**  
Aslan E.  
Optik, vol.242, pp.1-11, 2021 (Journal Indexed in SCI Expanded)
- II. **Conformal Talbot-effect-focusing performance of nested gallium-doped zinc oxide nanorings at communication wavelength**

Aslan E.

PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS, vol.42, 2020 (Journal Indexed in SCI)

- III. **An effective triple-band enhanced-infrared-absorption detection by honeycomb-shaped metamaterial-plasmonic absorber**  
Aslan E., Aslan E., SARAÇOĞLU Ö. G. , TÜRKMEN M.  
SENSORS AND ACTUATORS A-PHYSICAL, vol.288, pp.149-155, 2019 (Journal Indexed in SCI)
- IV. **Experimental and numerical characterization of a mid-infrared plasmonic perfect absorber for dual-band enhanced vibrational spectroscopy**  
Aslan E., Aslan E., TÜRKMEN M., SARAÇOĞLU Ö. G.  
OPTICAL MATERIALS, vol.73, pp.213-222, 2017 (Journal Indexed in SCI)
- V. **Metamaterial plasmonic absorber for reducing the spectral shift between near- and far-field responses in surface-enhanced spectroscopy applications**  
Asian E., Aslan E., TÜRKMEN M., SARAÇOĞLU Ö. G.  
SENSORS AND ACTUATORS A-PHYSICAL, vol.267, pp.60-69, 2017 (Journal Indexed in SCI)
- VI. **Square fractal-like nanoapertures for SEIRA spectroscopy: An analytical, numerical and experimental study**  
Aslan E., Turkmen M.  
SENSORS AND ACTUATORS A-PHYSICAL, vol.259, pp.127-136, 2017 (Journal Indexed in SCI)
- VII. **Polarization insensitive plasmonic perfect absorber with coupled antisymmetric nanorod array**  
Aslan E., Kaya S., Aslan E., Korkmaz S., SARAÇOĞLU Ö. G. , Turkmen M.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.243, pp.617-625, 2017 (Journal Indexed in SCI)
- VIII. **Multispectral Cesaro-Type Fractal Plasmonic Nanoantennas**  
Aslan E., Aslan E., Wang R., Hong M. K. , Erramilli S., TÜRKMEN M., SARAÇOĞLU Ö. G. , Dal Negro L.  
ACS PHOTONICS, vol.3, no.11, pp.2102-2111, 2016 (Journal Indexed in SCI)
- IX. **Quantification of Multiple Molecular Fingerprints by Dual-Resonant Perfect Absorber**  
Cetin A. E. , Korkmaz S., Durmaz H., Aslan E., Kaya S., Paiella R., TÜRKMEN M.  
ADVANCED OPTICAL MATERIALS, vol.4, no.8, pp.1274-1280, 2016 (Journal Indexed in SCI)
- X. **Refractive index sensing characteristics of dual resonances in rectangular fractal nano-apertures**  
Aslan E., TÜRKMEN M.  
OPTICAL MATERIALS, vol.46, pp.423-428, 2015 (Journal Indexed in SCI)
- XI. **Dual-band plasmonic resonator based on Jerusalem cross-shaped nanoapertures**  
Cetin A. E. , Kaya S., Mertiri A., Asian E., Erramilli S., Altag H., TÜRKMEN M.  
PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS, vol.15, pp.73-80, 2015 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **GRAPHENE-TUNABLE MID-IRRED METAMATERIALS BASED ON TITANIUM NITRIDE NANORODS**  
Aslan E., Aslan E.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.8, no.4, pp.1269-1277, 2020 (National Refreed University Journal)
- II. **A MICROLENS BY GALLIUM DOPED ZINC OXIDE-NANOANTENNA**  
Aslan E., Aslan E.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.8, no.3, pp.931-942, 2020 (National Refreed University Journal)

## Scientific Refereeing

Plasma Research Express, Journal Indexed in ESCI, July 2020

Turkish Journal of Electrical Engineering & Computer Sciences, Journal Indexed in ESCI, December 2019

International Journal of Multidisciplinary Studies and Innovative Technologies, Other Journals, June 2019

## Citations

Total Citations (WOS):123

h-index (WOS):6