

# Res. Asst. PhD ŞAHİN KÜREKÇİ

## Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-2098-2021

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## Education Information

2015 - 2023	Doctorate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey
2013 - 2015	Postgraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey
2009 - 2013	Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Turkey

## Dissertations

2023	Optical classification and reconstruction through multimode fibers, Middle East Technical University, Doctorate
2015	Basics of massive spin-2 theories, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics, Postgraduate

## Research Areas

Optics and Photonics, Physics

## Academic Titles / Tasks

2017 - Continues	Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Physics
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## Courses

2023 - 2024	GENERAL PHYSICS II, Undergraduate
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## Published journal articles indexed by SCI, SSCI, and AHCI

- Single-Pixel Multimode Fiber Spectrometer via Wavefront Shaping**  
Kürekci Ş., Kahraman S., Yüce E.  
ACS Photonics, vol.10, no.8, pp.2488-2493, 2023 (SCI-Expanded)

## II. Single-Pixel Multimode Fiber Spectrometer via Wavefront Shaping

Yüce E., Kurekci Ş., Kahraman S. S.

ACS PHOTONICS, vol.10, pp.2488-2493, 2023 (SCI-Expanded)

## III. Entropy in Born-Infeld gravity

Alıcı G. D., Kürekci Ş., Tekin B.

PHYSICAL REVIEW D, vol.96, no.12, 2017 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

### I. Picometer-Resolution Single-Pixel Spectrometer Across Scattering Media

Kürekci Ş., Kahraman S. S., Yüce E.

FOTONİK 2022 - Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 09 September 2022

### II. Single-Pixel, Picometer Scale Spectral Characterization of Light Through Scattering Media

Kürekci Ş., Yüce E.

16th Nanoscience & Nanotechnology Conference, Ankara, Turkey, 5 - 08 September 2022

### III. Deep learning-based image transmission through a multi-mode fiber

Kürekci Ş., Odabaş E., Temur T., Afshari G., YÜCE E.

SPIE Photonics Europe, 2020, 6 - 10 April 2020, vol.1135126

### IV. Deep learning-based image transmission through a multi-mode fiber

Kürekci Ş., Temur A. T., Odabas M. E., Afshari G., Yüce E.

Unconventional Optical Imaging II 2020, Virtual, Online, France, 6 - 10 April 2020, vol.11351

### V. Improving Fiber Bend Sensor via Wavefront Shaping

Afshari G., Kürekci Ş., Yüce E.

21. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Turkey, 06 September 2019

### VI. Deep Learning Image Transmission Through a Multi-mode Fiber

Kürekci Ş., Temur A. T., Odabaş M. E., Yüce E.

21. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Turkey, 06 September 2019

### VII. Focusing Light Through Scattering Medium

Kürekci Ş., Yeşil C., Afshari G., Tabak M., Yüce E.

20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 August 2018

## Supported Projects

2018 - 2019 Rastgele Saçılmanın Işığın Frekansına Verdiği Tepkinin Hesaplanması, Project Supported by Higher Education Institutions

## Patent

2023 Yüce E., Kürekci Ş., KOMPAKT HOLOGRAFİK SLM SPEKTROMETRE, Patent, CHAPTER G Physics, The Invention Registration Number: 2020 22701 , Standard Registration, 2023

2021 Kürekci Ş., Yüce E., INTERFERENCE-BASED SPECTROMETER WITH MULTIMODE MEDIUM, Patent, CHAPTER G Physics, The Invention Recourse Number: PCT/TR2021/051305 , Standard Registration, 2021

2021 Kürekci Ş., Yüce E., COMPACT HOLOGRAPHIC SLM SPEKTROMETER, Patent, CHAPTER G Physics, The Invention Recourse Number: PCT/TR021/051613 , Standard Registration, 2021

2020 Yüce E., Kürekci Ş., ÇOK MODLU ORTAM İLE GİRİŞİM TEMELLİ SLM SPEKTROMETRE, Patent, CHAPTER G Physics, The Invention Recourse Number: 2020/16850 , Standard Registration, 2020

## Metrics

Publication: 10  
Citation (WoS): 7  
Citation (Scopus): 9  
H-Index (WoS): 1  
H-Index (Scopus): 2

## Awards

September 2022      Poster Award (Second Place), Fotonik 2022 - Ulusal Optik, Elektro-Optik Ve Fotonik Çalıştayı