

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

ScopusID: 57200200877

Yoksis Researcher ID: 261324

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. 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., Temur A. T., Odabas M. E., Afshari G., Yüce E.
Unconventional Optical Imaging II 2020, Virtual, Online, France, 6 - 10 April 2020, vol.11351
- IV. **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
- 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. **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: 8

Citation (WoS): 7

Citation (Scopus): 8

H-Index (WoS): 1

H-Index (Scopus): 1

Awards

September 2022

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