

## **Personal Information**

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## **International Researcher IDs**

ORCID: 0000-0002-1134-4429

## **Biography**

He is currently a research assistant in Metallurgical and Material Science Engineering .He completed his undergraduate education in the department of electrical and electronic engineering at Istanbul Şehir University. He took part in the establishment of the advanced micro and nano devices laboratory as an engineer at Istanbul Şehir University. Then continue work here as laboratory manager/researcher for 3 years. His research interests are WBG semiconductors, nanowire electronics, micro and nano fabrication optoelectronics

## **Education Information**

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electronics-Computer Education, Turkey 2018 - 2021

Undergraduate, Istanbul Şehir University, Faculty Of Engineering And Natural Sciences, Department Of Electrical And Electronics Engineering, Turkey 2010 - 2016

## **Foreign Languages**

English, C2 Mastery

## **Dissertations**

Postgraduate, Self-powered, Flexible, Silicon Carbide nanowire-based Ultraviolet Sensing Devices, Marmara University, Faculty of Engineering, Electrical and Electronics Engineering, 2021

## **Research Areas**

Electrical and Electronics Engineering, Nanotechnology, Optics and Photonics, MEMS, Optoelectronic Materials and Devices, Semiconducting Materials and Devices, Physics, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Natural Sciences, Engineering and Technology

## **Academic Titles / Tasks**

Research Assistant, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, 2020 - Continues

## Academic and Administrative Experience

Engineer, Istanbul Sehir University, Faculty Of Engineering And Natural Sciences, Department Of Electrical And Electronics Engineering, 2017 - 2020

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

- I. **Self-powered silicon carbide ultraviolet photodetector via gold nanoparticle plasmons for sustainable optoelectronic applications**  
YILDIRIM M. A., TEKER K.  
PHYSICA SCRIPTA, vol.97, no.11, 2022 (SCI-Expanded)
- II. **Self-powered fine-pattern flexible SiC single nanowire ultraviolet photodetector**  
YILDIRIM M. A., TEKER K.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.868, 2021 (SCI-Expanded)
- III. **High-responsivity flexible ultraviolet photodetector via single aluminum nitride nanowire**  
Ozdemir Y. B., TEKER K., YILDIRIM M. A.  
OPTICAL ENGINEERING, vol.60, no.5, 2021 (SCI-Expanded)
- IV. **Transport Characteristics of Gallium Nitride Nanowire Field-Effect Transistor (GaN-NWFET) for High Temperature Electronics**  
Yildirim M. A., TEKER K.  
NANO, vol.16, no.2, 2021 (SCI-Expanded)
- V. **Improving detectivity of self-powered GaN ultraviolet photodetector by nickel nanoparticles**  
Tekker K., Hocaoglu A., Yildirim M. A.  
APPLIED PHYSICS B-LASERS AND OPTICS, vol.127, no.1, 2021 (SCI-Expanded)
- VI. **Performance enhancement of 3C-SiC thin film UV photodetector via gold nanoparticles**  
Mousa H., Yildirim M. A., Tekker K.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.34, no.9, 2019 (SCI-Expanded)

## Metrics

Publication: 6

Citation (WoS): 18

Citation (Scopus): 20

H-Index (WoS): 2

H-Index (Scopus): 2