

## Res. Asst. ABDULLAH KARACA

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-5001-5559

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### Education Information

Doctorate, Karadeniz Technical University, -, Fizik, Turkey 2018 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2015 - 2018

Undergraduate, Karadeniz Technical University, Fen Fakültesi, Fizik, Turkey 2009 - 2014

### Foreign Languages

English, C1 Advanced

### Dissertations

Postgraduate, GERMANYUM TEK KRİSTAL OPTİK PENCERE ÜZERİNE YANSIMA ÖNLEYİCİ İNCE FİLM GELİŞTİRİLMESİ, Gazi University, Fen Bilimleri Enstitüsü, Fizik, 2018

### Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Optical Properties, Spectroscopy of Matter, Natural Sciences

### Academic Titles / Tasks

Research Assistant, Karadeniz Technical University, Fen Fakültesi, Fizik, 2018 - Continues

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

- Impact of CdSeTe and CdSe film deposition parameter on the properties of CdSeTe/CdTe absorber structure for solar cell applications**  
Çiriş A., Atasoy Y., TOMAKİN M., KARACA A., KÜÇÜKÖMEROĞLU T., BACAĞSIZ E.  
Semiconductor Science and Technology, vol.39, no.2, 2024 (SCI-Expanded)

- II. **Effect of ultra-thin CdSe(x)Te(1-x )interface layer on parameters of CdTe solar cells**  
Ciris A., Basol B. M., Atasoy Y., KARACA A., TOMAKİN M., KÜÇÜKÖMEROĞLU T., BACAŞIZ E.  
SOLAR ENERGY, vol.234, pp.128-136, 2022 (SCI-Expanded)
- III. **Effect of CdS and CdSe pre-treatment on interdiffusion with CdTe in CdS/CdTe and CdSe/CdTe heterostructures**  
Çiriş A., Başol B. M., Atasoy Y., KÜÇÜKÖMEROĞLU T., KARACA A., TOMAKİN M., BACAŞIZ E.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.128, 2021 (SCI-Expanded)
- IV. **Processing CdS- and CdSe-containing window layers for CdTe solar cells**  
Ciris A., Basol B. M., Atasoy Y., KARACA A., TOMAKİN M., Kucukomeroglu T., Bacaksiz E.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.54, no.21, 2021 (SCI-Expanded)
- V. **Deposition of CdSeTe alloys using CdTe-CdSe mixed powder source material in a close-space sublimation process**  
Çiriş A., Başol B. M., Atasoy Y., KARACA A., KÜÇÜKÖMEROĞLU T., TOMAKİN M., BACAŞIZ E.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.7, pp.9685-9693, 2021 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Development of ZnS Antireflective Thin Film Coating for MWIR Region**  
KARACA A., Efker H., SAĞLAM S., BACAŞIZ E., ÖZÇELİK S.  
International Conference on Chemical Energy and Semiconductor Photochemistry, 4 - 06 September 2019
- II. **MWIR Bölgesi İçin Yansıma Önleyici İnce Film Kaplama/Anti-Reflection Thin Film Coating For MWIR Region**  
KARACA A., ÇAT Y., BARAN V., SAĞLAM S., ÖZÇELİK S.  
1st Light and Light-Based Technologies Workshop, Turkey, 15 May 2018
- III. **8-12 µm Dalgaboyu Aralığı İçin Germanyum Optik Pencere Üzerine Yansıma Önleyici İnce Film Geliştirilmesi**  
KARACA A., DÖNMEZ M., KURTULUŞ G., YAMAN A. D., SAĞLAM S., ÖZÇELİK S.  
23. Yoğun Madde Fiziği Toplantısı, Turkey, 22 December 2017
- IV. **The Improvement of the Optical Transmission on the Sb-doped Ge Optical Window with ZnS ARC**  
ASAR T., KARACA A., SAĞLAM S., ÖZÇELİK S.  
Italian Crystal Growth Conference (ICG2017), Milan, Italy, 20 - 21 October 2017
- V. **Germanyum Tek Kristal Optik Pencere Üzerine Yansıma Önleyici Film Geliştirilmesi**  
KARACA A., SAĞLAM S., ÖZÇELİK S.  
19. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı (FOTONİK 2017), Turkey, 29 September 2017
- VI. **The Development Of Antireflection Film On Germanium Optical Windows**  
KARACA A.  
Turkish Physical Society 33. International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, vol.33., no.1, pp.642
- VII. **The Development of Anti-Reflection Film on Germanium Optical Windows**  
KARACA A., ÖZEN Y., ÖZÇELİK S.  
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, Bodrum, Muğla, Turkey, 6 - 10 September 2017

## Metrics

Publication: 12

Citation (WoS): 25

Citation (Scopus): 29

H-Index (WoS): 4

H-Index (Scopus): 4