Res. Asst. ABDULLAH KARACA

Personal Information

Office Phone: +90 462 377 2553
Email: abdullah.karaca@ktu.edu.tr
Address: K.T.Ü. Kanuni Kampüsü Fizik Bölümü Oda Nu:112 Trabzon/Ortahisar

International Researcher IDs
ORCID: 0000-0001-5001-5559
ScopusID: 57221952517
Yoksis Researcher ID: 277139

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

I. **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., BACAKSIZ 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., BACAKSIZ 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., BACAKSIZ 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., BACAKSIZ 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., Efkere H., SAĞLAM S., BACAKSIZ 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 Transmissionon 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 Antıreflection Fılm On Germanium Optical Wındows**
KARACA A.
Turkish Phsical 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): 20
Citation (Scopus): 23
H-Index (WoS): 3

H-Index (Scopus): 3