

Asst. Prof. KENAN ÖZEL

Personal Information

Email: kozel@ankara.edu.tr

Web: <https://avesis.ankara.edu.tr/kozel>

International Researcher IDs

ORCID: 0000-0002-0250-3731

Yoksis Researcher ID: 33000

Education Information

Doctorate, Ankara Yildirim Beyazit University, Mühendislik Ve Doğa Bilimleri Fakültesi, Enerji Sistemleri Mühendisliği, Turkey 2018 - 2022

Postgraduate, Ankara University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2015 - 2017

Undergraduate, Zonguldak Bülent Ecevit University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2007 - 2012

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Renewable Energy Sources, Fotovoltaik Sistemlerin Teknik Eğitimi, Enerji , 2020

Education Management and Planning, Eğitimcilerin Eğitimi Sertifika Programı, Ankara Üniversitesi, 2019

Technology Management/Management of Technology, Ulusal ve Uluslararası Proje Hazırlama Eğitimi, Ankara Üniversitesi, 2018

Research Areas

Nanotechnology, Optics and Photonics, Renewable energy, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Ankara University, Gama Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2022 - Continues

Lecturer PhD, Ankara University, Gama Meslek Yüksekokulu, Elektrik ve Enerji Bölümü, 2015 - 2022

Lecturer, Tokat Gaziosmanpaşa University, 2014 - 2015

Research Assistant, Zonguldak Bülent Ecevit University, Faculty Of Engineering, 2012 - 2014

Academic and Administrative Experience

Director of Vocational School, Ankara University, Gama Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2023 - Continues

Head of Department, Ankara University, Gama Meslek Yüksekokulu, Elektrik Ve Enerji Bölümü, 2023 - Continues
Assistant Director of Vocational School, Ankara University, Gama Meslek Yüksekokulu, 2021 - 2023

Courses

Technology Applications in Healthcare, Undergraduate, 2024 - 2025
Electricity Generation with Solar Energy, Associate Degree, 2024 - 2025
Electric Power Plants, Associate Degree, 2024 - 2025
Electrical Machines, Associate Degree, 2022 - 2023
Yüksek Gerilim Tekniği, Associate Degree, 2023 - 2024
Circuit Analysis, Associate Degree, 2022 - 2023
Alternative Energy Technologies, Associate Degree, 2022 - 2023
Enerji Kaynakları ve Dönüştürme Sistemleri, Associate Degree, 2016 - 2017
Sistem Analizi ve Tasarımı, Associate Degree, 2016 - 2017
Kontrol Sistemleri, Associate Degree, 2016 - 2017
Güç Dönüşümünün Temelleri, Associate Degree, 2016 - 2017
Elektrik Güç İletim ve Dağıtım, Associate Degree, 2016 - 2017
Temel Elektronik, Associate Degree, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Ag nanoparticles decorated AZO/p-Si heterojunction UV photodetector**
ÖZEL K.
Optics and Laser Technology, vol.174, 2024 (SCI-Expanded)
- II. **High-performance transparent AZO UV photodetectors**
Ozel K., Yildiz A.
OPTICAL AND QUANTUM ELECTRONICS, vol.56, no.7, 2024 (SCI-Expanded)
- III. **Multi-layered blocking layers for dye sensitized solar cells**
ÖZEL K., ATILGAN A., YILDIZ A.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.448, 2024 (SCI-Expanded)
- IV. **Strain-induced photoresponsivity in gallium-doped ZnO thin film based UV photodetectors**
ÖZEL K.
Sensors and Actuators A: Physical, vol.366, 2024 (SCI-Expanded)
- V. **Engineering the visible light absorption of one-dimensional photonic crystals based on multilayers of Al-doped ZnO (AZO) thin films**
ATILGAN A., ÖZEL K., Sbeta M., YILDIZ A.
Materials Science in Semiconductor Processing, vol.166, 2023 (SCI-Expanded)
- VI. **Bio-inspired diodes made of chitosan/p-Si sandwich structure**
ÖZEL K., Kocak Y.
Sensors and Actuators A: Physical, vol.360, 2023 (SCI-Expanded)
- VII. **Thin film luminescent solar concentrators fabricated for indoor applications**
Arslan A., ÖZEL K., ATILGAN A., YILDIZ A.
Physica B: Condensed Matter, vol.661, 2023 (SCI-Expanded)
- VIII. **Ultraviolet photodiode fabricated from TiO₂ nanorods/p-silicon heterojunction**
Sekertekin B., ÖZEL K., ATILGAN A., YILDIZ A.
MATERIALS LETTERS, vol.323, 2022 (SCI-Expanded)
- IX. **Estimation of Maximum Photoresponsivity of n-SnO₂/p-Si Heterojunction-Based UV Photodetectors**
ÖZEL K., YILDIZ A.
PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS, vol.16, no.2, 2022 (SCI-Expanded)

- X. **Comprehensive Understanding of the Role of Emitter Layer Thickness for Metal-Oxide-Semiconductors Based Solar Cells**
 ÖZEL K., YILDIZ A.
 IEEE Journal of Photovoltaics, vol.12, pp.251-258, 2022 (SCI-Expanded)
- XI. **The potential barrier-dependent carrier transport mechanism in n-SnO₂/p-Si heterojunctions**
 ÖZEL K., YILDIZ A.
 Sensors and Actuators A: Physical, vol.332, 2021 (SCI-Expanded)
- XII. **High-detectivity ultraviolet-B photodetector based on SnO₂ thin film/Si heterojunction**
 ÖZEL K., YILDIZ A.
 SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.36, no.9, 2021 (SCI-Expanded)
- XIII. **A Self-Powered Ultraviolet Photodetector with Ultrahigh Photoresponsivity (208 mA W⁻¹) based on SnO₂ Nanostructures/Si Heterojunctions**
 ÖZEL K., YILDIZ A.
 PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS, vol.15, no.6, 2021 (SCI-Expanded)
- XIV. **A route towards enhanced UV photo-response characteristics of SnO₂/p-Si based heterostructures by hydrothermally grown nanorods**
 ÖZEL K., ATILGAN A., KÖKSAL N. E., YILDIZ A.
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.849, 2020 (SCI-Expanded)
- XV. **SnO₂/ZnO/p-Si and SnO₂/TiO₂/p-Si heterojunction UV photodiodes prepared using a hydrothermal method**
 Ozel K., Yildiz A.
 SENSORS AND ACTUATORS A-PHYSICAL, vol.315, 2020 (SCI-Expanded)
- XVI. **St. Lucie cherry, yellow jasmine, and madder berries as novel natural sensitizers for dye-sensitized solar cells**
 ATLI A., ATILGAN A., Altinkaya C., Ozel K., YILDIZ A.
 INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.8, pp.3914-3922, 2019 (SCI-Expanded)
- XVII. **Enhancement of efficiency of natural and organic dye sensitized solar cells using thin film TiO₂ photoanodes fabricated by spin-coating**
 Yildiz Z. K., ATILGAN A., Atli A., Ozel K., Altinkaya C., Yildiz A.
 JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.368, pp.23-29, 2019 (SCI-Expanded)
- XVIII. **Performance Improvement of Dye-Sensitized Solar Cells with AZO and BZO Blocking Layers**
 ÖZEL K., KOŞALAY İ., ATILGAN A., ATLI A., Yildiz Z. K., YILDIZ A.
 JOURNAL OF NEW MATERIALS FOR ELECTROCHEMICAL SYSTEMS, vol.21, no.4, pp.227-231, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Boron-Doped Thin Films Fabricated by the Spin Coating Method: The Effect of Doping Concentrations**
 Atilgan A., ÖZEL K.
 Gazi University Journal of Science Part A: Engineering and Innovation, vol.11, no.1, pp.57-67, 2024 (Peer-Reviewed Journal)
- II. **The Design of Standalone PV System Using PO Algorithm for Maximum Power Point Tracking**
 ÖZEL K., KARAARSLAN A.
 Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **An Example Study on Implementation of Roof-Type Photovoltaic System for Ankara Province**

DİNDAR T., ÖZEL K., ARSLAN A.

2. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENTIFIC RESEARCH, Gaziantep, Turkey, 02 November 2022, pp.82-87

II. Analysis Of Irradiation And Temperature Dependent Electrical Characteristics Of 49.5 KW Photovoltaic (PV) System

ÖZEL K., AYDIN H., DİNDAR T.

5. INTERNATIONAL SCIENCES AND INNOVATION CONGRESS, Ankara, Turkey, 11 November 2022, pp.79-85

III. A Case Feasibility Study On Piezoelectric Energy Harvesting For Indoor Flooring Applications

DİNDAR T., AYDIN H., ÖZEL K.

5. INTERNATIONAL SCIENCES AND INNOVATION CONGRESS, Ankara, Turkey, 11 November 2022, pp.86-91

IV. Production of Composite Suspension and Tension Insulators Used at High Voltage and Performing Routine Tests

ARSLAN A., ÖZEL K., DİNDAR T.

2. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENTIFIC RESEARCH, Gaziantep, Turkey, 02 November 2022, pp.88-94

V. p-n heterojunction diode based on TiO₂/p-Si

ŞEKERTEKİN B., ÖZEL K., YILDIZ A.

9th European Conference on Renewable Energy Systems (ECRES 2021), Turkey, 21 April 2021

VI. The Fabrication of n-SnO₂/p-Si Heterojunction Diode

ÖZEL K., YILDIZ A.

9th European Conference on Renewable Energy Systems (ECRES 2021), Turkey, 21 April 2021

VII. The Investigation of UV detection performance of SnO₂/p-Si Heterojunction

ÖZEL K., YILDIZ A.

9th European Conference on Renewable Energy Systems (ECRES 2021), Turkey, 21 April 2021

Metrics

Publication: 27

Citation (WoS): 81

Citation (Scopus): 81

H-Index (WoS): 3

H-Index (Scopus): 3