

## Asst. Prof. OZAN ÖZTÜRK

### Personal Information

**Email:** ozanozturk@cumhuriyet.edu.tr

**Web:** <https://avesis.cumhuriyet.edu.tr/ozanozturk>

### International Researcher IDs

ORCID: 0000-0002-9592-3152

ScopusID: 57199406022

Yoksis Researcher ID: 255311



### Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Nanoscience and Nanoengineering, Turkey 2019 - 2024

Associate Degree, Sivas Cumhuriyet University, Sağlık Hizmetleri Meslek Yüksekokulu, Optician Pr., Turkey 2022 - 2023

Associate Degree, Anadolu University, Açıköğretim Fakültesi, Computer Programming Pr., Turkey 2021 - 2023

Postgraduate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Nanotechnology Engineering, Turkey 2016 - 2018

Undergraduate Double Major, Sivas Cumhuriyet University, Mühendislik Fakültesi, Mechanical Engineering, Turkey 2012 - 2016

Undergraduate, Sivas Cumhuriyet University, Mühendislik Fakültesi, Electrical-Electronics Engineering, Turkey 2011 - 2015

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Development of Hybrid Nickel Sulfide-Based Supercapacitor Device, Ataturk University, Fen Bilimleri Enstitüsü, Nanoscience and Nanoengineering, 2024

Postgraduate, Electronic Properties of Triple GaAlAs/GaAs and GaInAs/GaAs Nano Structures, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Nanotechnology Engineering, 2018

### Research Areas

Electrical and Electronics Engineering, Mechanical Engineering, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği, 2025 - Continues

Research Assistant PhD, Sivas Cumhuriyet University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği, 2024 - 2025

Research Assistant, Sivas Cumhuriyet University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği, 2016 - 2024

## Courses

### Undergraduate

Nano Transport, Undergraduate, 2024 - 2025

Graduation Project, Undergraduate, 2024 - 2025

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

- I. **Coupled cylindrical quantum well wires in broken symmetry: effects of intense laser field on the harmonic generations**  
ALAYDİN B. Ö., ÖZTÜRK O., ALTUN D., ÖZTÜRK E.  
European Physical Journal Plus, vol.139, no.10, 2024 (SCI-Expanded)
- II. **Layered Transition Metal Sulfides for Supercapacitor Applications**  
ÖZTÜRK O., GÜR E.  
ChemElectroChem, vol.11, no.11, 2024 (SCI-Expanded)
- III. **High harmonic generations triggered by the intense laser field in GaAs/Al<sub>x</sub>Ga<sub>1-x</sub>As honeycomb quantum well wires**  
Alaydin B. Ö., Altun D., Öztürk O., Öztürk E.  
Materials Today Physics, vol.38, 2023 (SCI-Expanded)
- IV. **High harmonic generations in GaAs/AlGaAs superlattice: Effect of electric and magnetic field**  
Öztürk E., Altun D., Öztürk O., Alaydin B. Ö.  
Solid State Communications, vol.372, 2023 (SCI-Expanded)
- V. **Linear and nonlinear optical properties of a superlattice with periodically increased well width under electric and magnetic fields**  
ALTUN D. D., ÖZTÜRK O., ALAYDİN B. Ö., ÖZTÜRK E.  
MICRO AND NANOSTRUCTURES, vol.166, 2022 (SCI-Expanded)
- VI. **Intense laser field effect on the nonlinear optical properties of triple quantum wells consisting of parabolic and inverse-parabolic quantum wells**  
Öztürk O., Alaydin B. Ö., Altun D., Öztürk E.  
Laser Physics, vol.32, no.3, 2022 (SCI-Expanded)
- VII. **Depending on the intense laser field of the nonlinear optical rectification, second and third harmonic generation in asymmetric parabolic-step and inverse parabolic-step quantum wells**  
ÖZTÜRK O., ÖZTÜRK E., Elagoz S.  
PHYSICA SCRIPTA, vol.94, no.11, 2019 (SCI-Expanded)
- VIII. **The effect of intense laser field on the nonlinear optical features in asymmetric multiple step and inverse V-shaped multiple step quantum wells**  
Öztürk O., Öztürk E., Elagoz S.  
LASER PHYSICS, vol.29, 2019 (SCI-Expanded)
- IX. **Dependence on well widths of total optical absorption coefficient of asymmetric triple GaAlAs/GaAs and GaInAs/GaAs quantum wells**  
ÖZTÜRK O., ÖZTÜRK E., Elagoz S.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.33, no.17, 2019 (SCI-Expanded)
- X. **Nonlinear Optical Rectification, Second and Third Harmonic Generations in Square-Step and Graded-Step Quantum Wells under Intense Laser Field**  
Ozturk O., Ozturk E., Elagoz S.  
CHINESE PHYSICS LETTERS, vol.36, no.6, 2019 (SCI-Expanded)

- XI. **Linear and nonlinear optical properties of asymmetric triple quantum wells under intense laser field**  
Ozturk O., Ozturk E., Elagoz S.  
LASER PHYSICS, vol.29, no.5, 2019 (SCI-Expanded)
- XII. **Linear and nonlinear optical absorption coefficient and electronic features of triple GaAlAs/GaAs and GaInAs/GaAs quantum wells depending on barrier widths**  
Ozturk O., Ozturk E., Elagoz S.  
OPTIK, vol.180, pp.394-405, 2019 (SCI-Expanded)
- XIII. **The effect of barrier width on the electronic properties of double GaAlAs/GaAs and GaInAs/GaAs quantum wells**  
Ozturk O., Ozturk E., Elagoz S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1156, pp.726-732, 2018 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Electronic characteristics of asymmetric triple GaAlAs/GaAs and GaInAs/GaAs quantum wells depending on Al and In concentration**  
ÖZTÜRK O., ÖZTÜRK E., ELAGOZ S.  
Cumhuriyet Science Journal, vol.41, no.3, pp.565-570, 2020 (Peer-Reviewed Journal)
- II. **Electronic properties of double GaAlAs/GaAs and GaInAs/GaAs quantumwells as dependent on well width**  
ÖZTÜRK O., ÖZTÜRK E., ELAGOZ S.  
Cumhuriyet Science Journal, vol.40, no.2, pp.465-470, 2019 (Peer-Reviewed Journal)

### Papers Published in Refereed Scientific Meetings

- I. **Dependence on Well Widths of the Electronic Features of Triple GaAlAs/GaAs and GaInAs/GaAs Quantum Wells**  
Öztürk O., Öztürk E., Elagoz S.  
5th International Conference on Materials Science and Advanced-Nanotechnologies For Next Generation (MSNG-2018), Nevşehir, Turkey, 4 - 06 October 2018
- II. **Electronic characteristics of triple GaAlAs/GaAs and GaInAs/GaAs quantum wells depending on Al and In concentration**  
Öztürk O., Öztürk E., Elagöz S.  
5th International Conference on Materials Science and Advanced-Nanotechnologies For Next Generation (MSNG-2018) , Nevşehir, Turkey, 4 - 06 October 2018, pp.308
- III. **Second-Harmonic Generation Susceptibility in Asymmetric Triple Delta-Doped GaAs Structures**  
Öztürk E., Öztürk O., Elagöz S.  
5th International Conference on Materials Science and Advanced-Nanotechnologies For Next Generation (MSNG-2018) , Nevşehir, Turkey, 4 - 06 October 2018, pp.309
- IV. **Depending on Al and In concentration of the electronic properties of asymmetric double GaAlAs/GaAs and GaInAs/GaAs quantum wells**  
Öztürk O., Öztürk E., Elagöz S.  
4th International Conference on Engineering and Natural Sciences (ICENS-2018) , Kyiv, Ukraine, 2 - 06 May 2018, pp.630-635
- V. **The Effect of Barrier Width on the Electronic Properties of Double GaAlAs / GaAs andGaInAs / GaAs Quantum Wells**  
Öztürk O., Öztürk E., Elagoz S.  
MSNG 2017, Sarajevo, Bosnia And Herzegovina, 28 - 30 June 2017, pp.43

## Metrics

Publication: 20

Citation (WoS): 28

Citation (Scopus): 130

H-Index (WoS): 3

H-Index (Scopus): 8