

# Prof.Dr. EMİNE ÖZTÜRK

## Kişisel Bilgiler

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## Eğitim Bilgileri

Doktora, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 1995 - 2000

Yüksek Lisans, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 1992 - 1994

Lisans, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 1985 - 1989

## Yabancı Diller

İngilizce, B1 Orta

## Yaptığı Tezler

Doktora, DELTA-KATKILI GaAs YAPILARDA ELEKTRONİK YAPI, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2000

Yüksek Lisans, FARKLI KATKILANMIŞ YARIİLETKEN MALZEMELERİN ARAYÜZEY POTANSİYEL PROFİLLERİNİN BELİRLENMESİ, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1994

## Araştırma Alanları

Temel Bilimler

## Akademik Unvanlar / Görevler

Prof.Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2010 - Devam Ediyor

Doç.Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2005 - 2010

Yrd.Doç.Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2001 - 2005

Araştırma Görevlisi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1990 - 2001

## Akademik İdari Deneyim

Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2005 - Devam Ediyor

Fakülte Akademik Kurul Üyesi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2015 - 2018

Sivas Cumhuriyet Üniversitesi, Divriği Nuri Demirağ Meslek Yüksek Okulu, 2008 - 2009

Fakülte Akademik Kurul Üyesi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2006 - 2009

Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2005 - 2008

## Verdiği Dersler

Fizikte Matematiksel Yöntemler - II, Lisans, 2018 - 2019  
Matematiksel Fizik-II, Yüksek Lisans, 2018 - 2019  
Mühendisler için Elektronik, Lisans, 2018 - 2019  
Elektronik Laboratuvarı, Lisans, 2018 - 2019  
Modern Fizik Laboratuvarı, Lisans, 2019 - 2020  
Uzmanlık Alan Dersi, Yüksek Lisans, 2019 - 2020  
Fizik - I, Lisans, 2019 - 2020  
Matematiksel Fizik-I, Yüksek Lisans, 2019 - 2020  
Genel Fizik I, Lisans, 2018 - 2019  
Fizikte Matematiksel Yöntemler - I, Lisans, 2019 - 2020  
Genel Fizik Laboratuvarı - II, Lisans, 2018 - 2019  
Genel Fizik I, Lisans, 2019 - 2020  
Matematiksel Fizikte Özel Konular, Doktora, 2018 - 2019  
Genel Fizik Laboratuvarı - II, Lisans, 2017 - 2018  
Fizikte Matematiksel Yöntemler - I, Lisans, 2018 - 2019  
Fizikte Matematiksel Yöntemler - II, Lisans, 2017 - 2018  
Tez Çalışması, Yüksek Lisans, 2018 - 2019  
Seminer Dersi, Yüksek Lisans, 2018 - 2019  
Genel Fizik II, Lisans, 2016 - 2017  
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Fizik Lab. II, Lisans, 2015 - 2016  
Fizik Lab.I, Lisans, 2016 - 2017  
Fizik-II, Lisans, 2015 - 2016  
Elektromanyetik Teo., Lisans, 2015 - 2016  
Fizik-I, Lisans, 2016 - 2017  
Elkt Ve Elkt. Muh. Tem, Lisans, 2014 - 2015  
Yarıiletken Optoelektronik, Yüksek Lisans, 2015 - 2016  
Genel Fizik Laboratuvarı, Lisans, 2014 - 2015  
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Fizikte Matematik Yöntemler, Lisans, 2015 - 2016  
Genel Fizik Lab - III, Lisans, 2014 - 2015  
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Fizik Lab.Iv (Elek.Man.Dal.Ve Optik), Lisans, 2013 - 2014  
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Temel Fizik, Ön Lisans, 2009 - 2010  
Fizik Ve Geometrik Optik - I, Ön Lisans, 2009 - 2010  
Temel Fizik, Ön Lisans, 2009 - 2010  
Fizik - I, Ön Lisans, 2009 - 2010  
Genel Fizik, Lisans, 2007 - 2008  
Fizik Lab.I, Lisans, 2006 - 2007  
Katihhal Fiziği, Lisans, 2005 - 2006

## Yönetilen Tezler

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## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

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ÖZTÜRK O., ÖZTÜRK E., Elagoz S.  
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- IV. **Nonlinear Optical Rectification, Second and Third Harmonic Generations in Square-Step and Graded-Step Quantum Wells under Intense Laser Field**  
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- VI. **Linear and nonlinear optical absorption coefficient and electronic features of triple GaAlAs/GaAs and GaInAs/GaAs quantum wells depending on barrier widths**  
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- XV. **Comparison of Ga<sub>1-x</sub>Al<sub>x</sub>As/GaAs and Ga(1-x)In(x)As/GaAs quantum wells as dependent on Al and In concentrations under intense laser field**  
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- XVIII. **Resonant peaks of the linear optical absorption and rectification coefficients in GaAs/GaAlAs quantum well: Combined effects of intense laser, electric and magnetic fields**  
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- XIX. **Nonlinear intersubband absorption and refractive index change in n-type delta-doped GaAs for different donor distributions**  
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- XX. **Nonlinear Intersubband Transitions in Square and Graded Quantum Wells Modulated by Intense Laser Field**  
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- XXII. **Nonlinear intersubband transitions in a parabolic and an inverse parabolic quantum well under applied magnetic field**  
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- XXIII. **Electric field effect on the nonlinear optical absorption in double semi-graded quantum wells**  
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- XXIV. **Effect of an intense laser field on the holes in graded quantum wells**  
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- XXVI. **Nonlinear intersubband absorption and refractive index changes in square and graded quantum well modulated by temperature and Hydrostatic pressure**  
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- XXVII. **Linear and nonlinear optical absorption in different graded quantum wells modulated by intense laser field**  
Ozturk E., Sokmen I.  
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- XXX. **Effect of magnetic fields on the linear and nonlinear intersubband optical absorption coefficients and refractive index changes in square and graded quantum wells**  
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- XXXI. **Effect of Magnetic Field on a p-Type delta-Doped GaAs Layer**  
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- XXXIII. **Nonlinear optical absorption in graded quantum wells modulated by electric field and intense laser field**  
Ozturk E.  
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- XXXIV. **Optical intersubband transitions in double Si delta-doped GaAs under an applied magnetic field**  
Ozturk E.

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- XXXVI. **Electronic properties of p-type delta-doped GaAs structure under electric field**  
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- XXXVII. **Subband structure of p-type delta-doped GaAs as dependent on the acceptor concentration and the layer thickness**  
Ozturk E., Bahar M. K., Sokmen I.  
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- XXXVIII. **The variation of electronic properties with the doping concentration of modulation-doped Al<sub>x</sub>Ga<sub>1-x</sub>As-GaAs double quantum wells**  
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- XXXIX. **Intersubband transitions in an asymmetric double quantum well**  
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- XL. **Intersubband optical absorption in double quantum well under intense laser field**  
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- XLI. **Electric field and intense laser field effects on the intersubband optical absorption in a graded quantum well**  
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- XLIV. **The triple Si delta-doped GaAs structure**  
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- XLV. **The dependence of the intersubband transitions in square and graded QWs on intense laser fields**  
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- XLVI. **Intersubband optical absorption in quantum wells under applied electric and intense laser fields**  
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- XLVII. **Intersubband transitions of Si delta-doped GaAs layer for different donor distribution models**  
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- XLVIII. **Intersubband optical absorption of double Si delta-doped GaAs layers**  
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- XLIX. **Intersubband optical absorption in Si delta-doped GaAs for the donor distribution and thickness as dependent on the applied electric field**  
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- EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, cilt.25, sa.1, ss.3-9, 2004 (SCI İndekslerine Giren Dergi)
- L. **Influence of an applied electric field on the electronic properties of Si delta-doped GaAs**  
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- L.I. **Intersubband transitions for single, double and triple Si delta-doped GaAs layers**  
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- L.V. **Electronic properties of two coupled Si delta-doped GaAs structures**  
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- L.VIII. **The self-consistent calculation of Si delta-doped GaAs structures**  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Electronic features of Gaussian quantum well as depending on the parameters**  
BOYRAZ H., ÖZTÜRK E.  
Cumhuriyet Science Journal, cilt.41, sa.2, ss.462-466, 2020 (Diğer Kurumların Hakemli Dergileri)
- II. **Electronic properties of double GaAlAs/GaAs and GaInAs/GaAs quantumwells as dependent on well width**  
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- III. **Intersub-band Second Order Nonlinear Transitions in Asymmetric Double Delta-Doped GaAs Structures**  
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#### IV. The temperature dependence of the electronic structure of Si delta-doped GaAs

Öztürk E.

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### Kitap & Kitap Bölümleri

#### I. Fizik ve Mühendislikte Matematik Yöntemler

Öztürk E.

Seçkin Yayıncılık, Ankara, 2011

#### II. Fizik ve Mühendislikte Matematik Yöntemler Çözümlü Yöntemlerle

ÖZTÜRK E.

Seçkin Yayınevi, Ankara, 2011

### Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

#### I. Electronic characteristics of triple GaAlAs/GaAs and GaInAs/GaAs quantum wells depending on Al and In concentration

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