

## Prof. FATİH UNGAN

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Fizik , Turkey 2006 - 2010

Postgraduate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Fizik , Turkey 2001 - 2004

Undergraduate, Karadeniz Technical University, Fen Fakültesi, Fizik, Turkey 1996 - 2001

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Yoğun lazer alanı altında GaInNAs/GaAs kuantum kuyularındaki donör safsızlık atomlarının bağlanma enerjileri, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Fizik, 2010

Postgraduate, Simetrik katkılı çift kuantum kuyusunun potansiyel profilleri ve altband yapısı, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Fizik, 2004

### Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Optical Properties, Spectroscopy of Matter, Natural Sciences

### Academic Titles / Tasks

Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2021 - Continues

Professor, Sivas Cumhuriyet University, Teknoloji Fakültesi, Optik Mühendisliği, 2019 - 2021

Associate Professor, Sivas Cumhuriyet University, Teknoloji Fakültesi, Optik Mühendisliği, 2015 - 2019

Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2013 - 2015

Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2012 - 2013

Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2001 - 2011

## Academic and Administrative Experience

Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Optik Mühendisliği Anabilim Dalı (Disiplinlerarası), 2019 - Continues

Head of Department, Sivas Cumhuriyet University, Teknoloji Fakültesi, Optik Mühendisliği Bölümü, 2019 - 2021

Head of Department, Sivas Cumhuriyet University, Teknoloji Fakültesi, Optik Mühendisliği Bölümü, 2019 - 2021

Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Optik Mühendisliği (YI) (Tezli), 2015 - 2016

Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, Optik Mühendisliği Bölümü, 2015 - 2016

## Courses

İleri Geometrik Optik, Postgraduate, 2019 - 2020

Dinamik, Undergraduate, 2018 - 2019

Seminer Dersi, Postgraduate, 2019 - 2020

Doğrusal Olmayan Optik, Postgraduate, 2019 - 2020

Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020

Yarı İletken Optoelektronik Aygıtlar, Postgraduate, 2019 - 2020

Dinamik, Undergraduate, 2018 - 2019

Dinamik, Undergraduate, 2017 - 2018

Yarıiletken Optoelektronik Aygıtlar, Postgraduate, 2016 - 2017

İleri Geometrik Optik, Postgraduate, 2016 - 2017

Yarıiletken Optoelektronik, Postgraduate, 2014 - 2015

Dinamik, Undergraduate, 2014 - 2015

Dinamik, Undergraduate, 2014 - 2015

Seminer Dersi, Postgraduate, 2014 - 2015

Dinamik, Undergraduate, 2014 - 2015

Uzmanlık Alan Dersi, Postgraduate, 2014 - 2015

Dinamik, Undergraduate, 2014 - 2015

Katihhal Fiziği, Undergraduate, 2014 - 2015

Genel Fizik II, Undergraduate, 2013 - 2014

Genel Fizik II, Undergraduate, 2013 - 2014

Katihhal Fiziği, Undergraduate, 2014 - 2015

Katihhal Fiziği - I, Undergraduate, 2014 - 2015

Genel Fizik I, Undergraduate, 2014 - 2015

Genel Fizik I, Undergraduate, 2014 - 2015

Genel Fizik II, Undergraduate, 2013 - 2014

Genel Fizik II, Undergraduate, 2013 - 2014

Fizik II, Undergraduate, 2013 - 2014

Temel Fizik, Associate Degree, 2012 - 2013

Genel Fizik I, Undergraduate, 2012 - 2013

Fizik-II, Undergraduate, 2011 - 2012

Temel Bilgisayar Bilimleri, Undergraduate, 2011 - 2012

Temel Bilgisayar Bilimleri, Undergraduate, 2011 - 2012

Fizik-II, Undergraduate, 2011 - 2012

Genel Fizik I, Undergraduate, 2012 - 2013

Temel Fizik, Associate Degree, 2011 - 2012

## Advising Theses

Ungan F., TERS V-ŞEKİLLİ BİR KUANTUM KUYUSUNUN DOĞRUSAL VE DOĞRUSAL OLMAYAN OPTİK ÖZELLİKLERİ, Postgraduate, A.Bilgin(Student), 2019  
Ungan F., Çift görüş açılı mekanik objektif tasarımı, Postgraduate, Ç.KOÇ(Student), 2019  
Ungan F., Elektromanyetik Alan Altındaki Ters Parabolik Bir Kuantum Kuyusunun Optik Özellikleri, Postgraduate, A.TUNCER(Student), 2019  
Ungan F., YARIM V-ŞEKİLLİ KUANTUM KUYUSUNUNOPTİKSEL ÖZELLİKLERİ, Postgraduate, S.Alım(Student), 2019  
Ungan F., GÖRÜNTÜ KALİTESİNİN ARTTIRILMASINDA OPTİK YÜZEYLERİN ETKİSİNİN İNCELENMESİ, Postgraduate, L.Açıköz(Student), 2019  
Ungan F., Asimetrik Çift Eğimli Kuantum Kuyusunun Optiksel Özellikleri, Postgraduate, H.Seda(Student), 2018  
UNGAN F., Safsızlık düzeyleri arasındaki kızılötesi geçişler üzerine elektrik alan etkisi, Postgraduate, Y.EMRE(Student), 2015

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

- I. **Modulation of nonlinear optical rectification, second, and third harmonic generation coefficients in n-type quadruple  $\delta$ -doped GaAs quantum wells under external fields**  
Sayrac H., Jaouane M., Ed-Dahmouny A., Sali A., UNGAN F.  
Physica B: Condensed Matter, vol.690, 2024 (SCI-Expanded)
- II. **Second harmonic generation in Harmonic-Gaussian asymmetric double quantum well: effect of magnetic and intense laser fields**  
TÜZEMEN A. T., Demir M., Dakhlaoui H., Mora-Ramos M., UNGAN F.  
Physica Scripta, vol.99, no.5, 2024 (SCI-Expanded)
- III. **Modeling of electronic spectra and optical responses of a semiconductor AlGaAs/GaAs quantum well with three-step barriers: the role of external perturbations and impurity**  
Haghighatzadeh A., Attarzadeh A., Salman Durmuslar A., AL E. B., UNGAN F.  
European Physical Journal Plus, vol.139, no.4, 2024 (SCI-Expanded)
- IV. **Hydrostatic pressure and temperature effects on nonlinear optical properties in harmonic-Gaussian asymmetric double quantum wells**  
SAYRAÇ M., Dakhlaoui H., Mora-Ramos M., UNGAN F.  
Physica Scripta, vol.99, no.4, 2024 (SCI-Expanded)
- V. **Third harmonic generation of a 12–6 GaAs/Ga<sub>1-x</sub>Al<sub>x</sub>As double quantum well: effect of external fields**  
Rodríguez-Magdaleno K., Demir M., UNGAN F., Nava-Maldonado F., Martínez-Orozco J.  
European Physical Journal Plus, vol.139, no.4, 2024 (SCI-Expanded)
- VI. **Harnessing a Dielectric/Plasma Photonic Crystal as an Optical Microwave Filter: Role of Defect Layers and External Magnetic Fields**  
Dakhlaoui H., Belhadj W., Elabidi H., Al-Shameri N. S., UNGAN F., Wong B. M.  
Materials, vol.17, no.3, 2024 (SCI-Expanded)
- VII. **Effect of structural parameters and applied external fields on the third harmonic generation coefficient of AlGaAs/GaAs three-step quantum well**  
SAYRAÇ M., Dakhlaoui H., Belhadj W., UNGAN F.  
European Physical Journal Plus, vol.139, no.1, 2024 (SCI-Expanded)
- VIII. **Investigation of nonlinear optical rectification within multilayer wurtzite InGaN/GaN cylindrical quantum dots under the impact of temperature and pressure**  
Jaouane M., Ed-Dahmouny A., Fakkahi A., Arraoui R., El-Bakkari K., Azmi H., Sali A., UNGAN F.  
Optical Materials, vol.147, 2024 (SCI-Expanded)
- IX. **Influence of hydrostatic pressure and temperature on the optical responses of asymmetric triple quantum wells**  
Durmuslar A. S., Dakhlaoui H., Al E. B., Ungan F.  
European Physical Journal Plus, vol.139, no.1, 2024 (SCI-Expanded)

- X. **Impacts of electric and magnetic fields on the optical and electronic characteristics of graphene-based multibarrier structure**  
Belhadj W., Dakhlaoui H., Alsalmi O. H., UNGAN F.  
Optical and Quantum Electronics, vol.55, no.13, 2023 (SCI-Expanded)
- XI. **Influence of structural variables and external perturbations on the nonlinear optical rectification, second, and third-harmonic generation in the InP/InGaAs triple quantum well structure**  
SAYRAÇ M., Belhadj W., Dakhlaoui H., UNGAN F.  
European Physical Journal Plus, vol.138, no.11, 2023 (SCI-Expanded)
- XII. **Electric field, magnetic field, and hydrostatic pressure effects on the absorption coefficient for GaAs/Al<sub>x</sub>Ga<sub>1-x</sub>As/Al<sub>0.3</sub>Ga<sub>0.7</sub>As staggered core-shell-shell spherical quantum dots**  
Rodríguez-Guijarro G., Rodríguez-Magdaleno K., KASAPOĞLU E., Nava-Maldonado F., UNGAN F., Martínez-Orozco J.  
Physica E: Low-Dimensional Systems and Nanostructures, vol.154, 2023 (SCI-Expanded)
- XIII. **GaAs Quantum Dot Confined with a Woods-Saxon Potential: Role of Structural Parameters on Binding Energy and Optical Absorption**  
Dakhlaoui H., Belhadj W., Elabidi H., UNGAN F., Wong B. M.  
Inorganics, vol.11, no.10, 2023 (SCI-Expanded)
- XIV. **Influence of perturbations on linear and nonlinear optical properties of quantum dot**  
Edet C., AL E. B., UNGAN F., Inyang E. P., Ali N., Ramli M., Endut R., Aljunid S.  
European Physical Journal Plus, vol.138, no.10, 2023 (SCI-Expanded)
- XV. **Hydrogenic donor-related binding energy and diamagnetic susceptibility in multilayer cylindrical quantum dots under hydrostatic pressure**  
El-Bakkari K., Jaouane M., Fakkahi A., Ed-Dahmouny A., Arraoui R., Azmi H., Sali A., UNGAN F.  
Applied Physics A: Materials Science and Processing, vol.129, no.8, 2023 (SCI-Expanded)
- XVI. **Linear and nonlinear optical properties in GaAs quantum well based on konwent-like potential: Effects of impurities and structural parameters**  
Dakhlaoui H., Belhadj W., UNGAN F., S Al-Shameri N.  
Physica E: Low-Dimensional Systems and Nanostructures, vol.152, 2023 (SCI-Expanded)
- XVII. **Investigating the optical, electronic, magnetic properties and DFT of NiO films prepared using RF sputtering with various argon pressures**  
Hopoglu H., KAYA D., Maslov M. M., KAYA S., DEMİR İ., ALTUNTAŞ İ., UNGAN F., Akyol M., EKİCİBİL A., Tüzemen E.  
Physica B: Condensed Matter, vol.661, 2023 (SCI-Expanded)
- XVIII. **Effects of external electric and magnetic field on the nonlinear optical rectification, second, and third-harmonic generations in GaAs/AlGaAs asymmetric triple quantum well**  
Tuzemen A. T., Al E. B., Dakhlaoui H., Ungan F.  
European Physical Journal Plus, vol.138, no.7, 2023 (SCI-Expanded)
- XIX. **Electronic transmission and conductance oscillations in electrostatic multibarrier system based on graphene monolayer**  
Alsalmi O. H., Dakhlaoui H., Belhadj W., UNGAN F.  
Physica Scripta, vol.98, no.7, 2023 (SCI-Expanded)
- XX. **Position-dependent-mass and laser field impact on the optical characteristics of Manning-like double quantum well**  
Dakhlaoui H., Belhadj W., KASAPOĞLU E., UNGAN F.  
Physica E: Low-Dimensional Systems and Nanostructures, vol.151, 2023 (SCI-Expanded)
- XXI. **Binding energy, electronic states, and optical absorption in a staircase-like spherical quantum dot with hydrogenic impurity**  
Dakhlaoui H., Belhadj W., Musa M., UNGAN F.  
European Physical Journal Plus, vol.138, no.6, 2023 (SCI-Expanded)
- XXII. **Linear and nonlinear optical properties of CdSe/ZnTe core/shell nanostructures with screened modified Kratzer potential**  
Jaouane M., El-Bakkari K., Al E. B., Sali A., Ungan F.  
European Physical Journal Plus, vol.138, no.4, 2023 (SCI-Expanded)

- XXIII. **Electronic states and optical characteristics of GaAs Spherical quantum dot based on Konwent-like confining potential: Role of the hydrogenic impurity and structure parameters**  
Dakhlaoui H., Belhadj W., Musa M., UNGAN F.  
Optik, vol.277, 2023 (SCI-Expanded)
- XXIV. **Nonlinear absorption coefficient and relative refractive index change for Konwent potential quantum well as a function of intense laser field effect**  
Rodríguez-Magdaleno K., Nava-Maldonado F., KASAPOĞLU E., Mora-Ramos M., UNGAN F., Martínez-Orozco J.  
Physica E: Low-Dimensional Systems and Nanostructures, vol.148, 2023 (SCI-Expanded)
- XXV. **Numerical study of optical absorption coefficients in Manning-like AlGaAs/GaAs double quantum wells: Effects of doped impurities**  
Dakhlaoui H., Belhadj W., Durmuslar A. S., UNGAN F., Abdelkader A.  
Physica E: Low-Dimensional Systems and Nanostructures, vol.147, 2023 (SCI-Expanded)
- XXVI. **Effects of external fields on the nonlinear optical rectification and second harmonic generation of GaAs/GaAlAs zigzag quantum well**  
TÜZEMEN A. T., Dakhlaoui H., UNGAN F.  
Journal of Molecular Structure, vol.1274, 2023 (SCI-Expanded)
- XXVII. **Effects of external perturbations on light absorption by light/heavy hole excitons in a semi-parabolic quantum well**  
Peter A., KASAPOĞLU E., Mora-Ramos M., UNGAN F.  
Journal of Molecular Structure, vol.1274, 2023 (SCI-Expanded)
- XXVIII. **The effect of structure parameters and static electric field on the nonlinear optical properties of triple InGaAs/GaAs quantum well**  
SAYRAÇ M., Kaynar E., UNGAN F.  
Journal of Molecular Structure, vol.1273, 2023 (SCI-Expanded)
- XXIX. **Experimental and theoretical insights on the structural and optical properties of GeOx thin films deposited via RF magnetron sputtering under varying oxygen percentage**  
ŞENADIM TÜZEMEN E., Hopoğlu H., SARITAŞ S., AYDINOĞLU H. S., ERTUĞRUL M., Maslov M., KAYA S., UNGAN F., GÜR E.  
Physica B: Condensed Matter, vol.650, 2023 (SCI-Expanded)
- XXX. **Modeling and simulation of the influence of quantum dots density on solar cell properties**  
Jaouane M., Fakkahi A., Ed-Dahmouny A., El-Bakkari K., TÜZEMEN A. T., Arraoui R., Sali A., UNGAN F.  
European Physical Journal Plus, vol.138, no.2, 2023 (SCI-Expanded)
- XXXI. **The nonlinear optical properties of "12-6" tuned GaAs/GaAlAs double quantum well under the external fields**  
Tuzemen A. T., Dakhlaoui H., Al E. B., Ungan F.  
European Physical Journal Plus, vol.138, no.2, 2023 (SCI-Expanded)
- XXXII. **Investigation of the electro-optical characteristics of GaAs/AlGaAs multiple quantum well grown by metal-organic vapor phase epitaxy**  
Türkoğlu A., Ergün Y., UNGAN F.  
Journal of Molecular Structure, vol.1272, 2023 (SCI-Expanded)
- XXXIII. **Tuning of nonlinear optical characteristics of a cylindrical quantum dot by external fields and structure parameters**  
Jaouane M., Sali A., KASAPOĞLU E., UNGAN F.  
Philosophical Magazine, vol.103, no.7, pp.693-711, 2023 (SCI-Expanded)
- XXXIV. **Effects of the confinement potential parameters and optical intensity on the linear and nonlinear optical properties of spherical quantum dots**  
Edet C., Al E. B., Ungan F., Ali N., Ramli M., Asjad M.  
Results in Physics, vol.44, 2023 (SCI-Expanded)
- XXXV. **Fibonacci hyperbolic quantum wells: a model for two-level non-linear optical response**  
Barreto-Basave F., Mora-Ramos M., UNGAN F., Pérez-Quintana I., Duque C.  
Optical and Quantum Electronics, vol.55, no.1, 2023 (SCI-Expanded)

- XXXVI. **Nonlinear optical properties of modified Möbius squared potential well: influence of electric and magnetic fields**  
Salman Durmuslar A., Dakhlaoui H., Al E. B., Ungan F.  
Philosophical Magazine, vol.103, no.21, pp.1980-1991, 2023 (SCI-Expanded)
- XXXVII. **Theoretical investigation of nonlinear optical properties of Mathieu quantum well**  
Al E. B., Peter A. J., Mora-Ramos M. E., Ungan F.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.138, no.1, pp.49, 2023 (SCI-Expanded)
- XXXVIII. **Investigation of linear and nonlinear optical absorption coefficients and refractive index changes of a zigzag quantum well with structure parameters and applied external fields**  
TÜZEMEN A. T., Mora-Ramos M., UNGAN F.  
Physica B: Condensed Matter, vol.647, 2022 (SCI-Expanded)
- XXXIX. **The nonlinear optical properties of GaAs/GaAlAs triple quantum well: Role of the electromagnetic fields and structural parameters**  
TÜZEMEN A. T., Dakhlaoui H., Mora-Ramos M., UNGAN F.  
Physica B: Condensed Matter, vol.646, 2022 (SCI-Expanded)
- XL. **Photoionization cross section of donor single dopant in multilayer quantum dots under pressure and temperature effects**  
Jaouane M., Sali A., Fakkahi A., Arraoui R., Ed-Dahmouny A., Ungan F.  
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.144, 2022 (SCI-Expanded)
- XLI. **The non-resonant intense laser field effects on the binding energies and the nonlinear optical properties of a donor impurity in Rosen-Morse quantum well**  
Durmuslar A. S., Turkoglu A., Mora-Ramos M. E., Ungan F.  
INDIAN JOURNAL OF PHYSICS, vol.96, no.12, pp.3485-3492, 2022 (SCI-Expanded)
- XLII. **Effect of Razavy potential well parameters on the optical rectification, second, and third harmonic generation coefficients of Razavy quantum well in the presence of electric, magnetic, and THz laser fields**  
Durmuslar A. S., Peter A. J., UNGAN F.  
OPTICAL AND QUANTUM ELECTRONICS, vol.54, no.10, 2022 (SCI-Expanded)
- XLIII. **In plane magnetic field and intense laser field effects on second harmonic generation of asymmetric AlGaAs/GaAs double quantum well**  
Perez-Gonzalez J., Rojas-Briseño J., Nava-Maldonado F., Santiago A. D. R., UNGAN F., Dakhlaoui H., Martinez-Orozco J.  
Revista Mexicana de Fisica, vol.68, no.5, 2022 (SCI-Expanded)
- XLIV. **The nonlinear optical rectification, second and third harmonic generation coefficients of Konwent potential quantum wells**  
SAYRAÇ M., Martinez-Orozco J. C., Mora-Ramos M. E., Ungan F.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.9, 2022 (SCI-Expanded)
- XLV. **Intense terahertz laser field induced electro-magneto-donor impurity associated photoionization cross-section in Gaussian quantum wires**  
Peter A. J., Mora-Ramos M., UNGAN F.  
Physica E: Low-Dimensional Systems and Nanostructures, vol.143, 2022 (SCI-Expanded)
- XLVI. **Effects of Applied Magnetic Field on the Optical Properties and Binding Energies Spherical GaAs Quantum Dot with Donor Impurity**  
Edet C. O., Al E. B., Ungan F., Ali N., Rusli N., Aljunid S. A., Endut R., Asjad M.  
NANOMATERIALS, vol.12, no.16, pp.2741, 2022 (SCI-Expanded)
- XLVII. **Interband transitions and exciton binding energy in a Razavy quantum well: effects of external fields and Razavy potential parameters**  
SAYRAÇ M., Peter A. J., Ungan F.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.7, 2022 (SCI-Expanded)
- XLVIII. **Effects of external fields on the nonlinear optical properties of an n-type quadruple delta-doped GaAs quantum wells**

Salman Durmuslar A., Dakhlaoui H., Mora-Ramos M. E., UNGAN F.

EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.6, 2022 (SCI-Expanded)

**XLIX. Theoretical simulation of optical absorption coefficients in heterostructure based on semi-parabolic-double quantum wells**

Dakhlaoui H., Durmuslar A. S., Rodriguez-vargas I., Ungan F.

EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.5, 2022 (SCI-Expanded)

**L. Dynamics of nonlinear optical rectification, second, and third harmonic generation in asymmetric triangular double quantum wells due to static electric and magnetic fields**

Al E. B., Kasapoglu E., Ungan F.

EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.4, 2022 (SCI-Expanded)

**LI. Strain effect on the intraband absorption coefficient for spherical CdSe/CdS/ZnSe core-shell-shell quantum dots**

Rodríguez-Magdaleno K., Pérez-Álvarez R., UNGAN F., Martínez-Orozco J.

Materials Science in Semiconductor Processing, vol.141, 2022 (SCI-Expanded)

**LII. Nonlinear optical properties in Al<sub>x</sub>Ga<sub>1-x</sub>As/GaAs double-graded quantum wells: The effect of the structure parameter, static electric, and magnetic field**

AYDINOĞLU H. S., SAYRAÇ M., Mora-Ramos M., UNGAN F.

Solid State Communications, vol.342, 2022 (SCI-Expanded)

**LIII. Effects of hydrostatic pressure and temperature on the nonlinear optical properties of GaAs/GaAlAs zigzag quantum well**

TÜZEMEN A. T., Dakhlaoui H., Ungan F.

PHILOSOPHICAL MAGAZINE, vol.102, no.23, pp.2428-2443, 2022 (SCI-Expanded)

**LIV. Magneto-optical properties of impurity associated photoionization cross-section in laser-driven delta-doped quantum wires**

Peter A. J., Kasapoglu E., Ungan F.

PHYSICA B-CONDENSED MATTER, vol.620, 2021 (SCI-Expanded)

**LV. Optical properties of a GaAs quantum well with new type of hyperbolic confinement potential: Effect of structure parameters and intense laser field**

Durmuslar A. S., ALPER BİLLUR C., Turkoglu A., UNGAN F.

OPTICS COMMUNICATIONS, vol.499, 2021 (SCI-Expanded)

**LVI. Combined effects of electric, magnetic, and intense terahertz laser fields on the nonlinear optical properties in GaAs/GaAlAs quantum well with exponentially confinement potential**

Altuntas İ., Dakhlaoui H., Mora-Ramos M. E., Ungan F.

EUROPEAN PHYSICAL JOURNAL PLUS, vol.136, no.11, 2021 (SCI-Expanded)

**LVII. Optical properties of a quantum well with Razavy confinement potential: Role of applied external fields**

Turkoglu A., Dakhlaoui H., Mora-Ramos M. E., Ungan F.

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.134, 2021 (SCI-Expanded)

**LVIII. Intensity-dependent nonlinear optical properties in an asymmetric Gaussian potential quantum well-modulated by external fields**

SAYRAÇ M., Turkoglu A., Mora-Ramos M. E., Ungan F.

OPTICAL AND QUANTUM ELECTRONICS, vol.53, no.9, 2021 (SCI-Expanded)

**LIX. Donor impurity atom effect on the inter-subband absorption coefficient for symmetric double n-type delta-doped GaAs quantum well**

Rodríguez-Magdaleno K. A., Turkoglu A., Ungan F., Mora-Ramos M. E., Martinez-Orozco J. C.

SUPERLATTICES AND MICROSTRUCTURES, vol.156, 2021 (SCI-Expanded)

**LX. Non-resonant intense laser field effect on the nonlinear optical properties associated to the inter- and intra-band transitions in an anharmonic quantum well submitted to electric and magnetic field**

Turkoglu A., Aghoutane N., Feddi E., Mora-Ramos M. E., Ungan F.

SOLID STATE COMMUNICATIONS, vol.334, 2021 (SCI-Expanded)

**LXI. Photoluminescence characteristic of as-grown and thermally annealed n-and p-type modulation-**

**doped Ga(0.68)In(0.32)N(x)As(1-x)/GaAs quantum well structures**

Donmez O., Sarcan F., Erol A., UNGAN F., SARİ H.

THIN SOLID FILMS, vol.732, 2021 (SCI-Expanded)

- LXII. **Numerical simulation of linear and nonlinear optical properties in heterostructure based on triple Gaussian quantum wells: effects of applied external fields and structural parameters**  
Dakhlaoui H., Altuntas İ., Mora-Ramos M. E., Ungan F.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.136, no.8, 2021 (SCI-Expanded)
- LXIII. **Effect of intense laser and electric fields on nonlinear optical properties of cylindrical quantum dot with Morse potential**  
UNGAN F., BAHAR M. K., Barseghyan M. G., Perez L. M., Laroze D.  
OPTIK, vol.236, 2021 (SCI-Expanded)
- LXIV. **Influence of hydrostatic pressure, temperature, and terahertz laser field on the electron-related optical responses in an asymmetric double quantum well**  
SAYRAÇ M., Turkoglu A., Ungan F.  
EUROPEAN PHYSICAL JOURNAL B, vol.94, no.6, 2021 (SCI-Expanded)
- LXV. **Nonlinear optical properties of a quantum well with inversely quadratic Hellman potential**  
Turkoglu A., Dakhlaoui H., Durmuslar A. S., Mora-Ramos M., UNGAN F.  
European Physical Journal B, vol.94, no.5, 2021 (SCI-Expanded)
- LXVI. **The effect of impurity position and doping concentration on the binding energies and total optical absorption coefficients in a delta-doped quantum well**  
Durmuslar A. S., Turkoglu A., Mora-Ramos M. E., UNGAN F.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.136, no.4, 2021 (SCI-Expanded)
- LXVII. **Theoretical investigation of linear and nonlinear optical properties in an heterostructure based on triple parabolic barriers: Effects of external fields**  
Dakhlaoui H., Ungan F., Martinez-Orozco J. C., Mora-Ramos M. E.  
PHYSICA B-CONDENSED MATTER, vol.607, 2021 (SCI-Expanded)
- LXVIII. **Optical analysis of quantum dot with velocity-dependent potential**  
BAHAR M. K., Ungan F., Kaya H., AKKOYUN S.  
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- LXIX. **Optical properties of a triple AlGaAs/GaAs quantum well purported for quantum cascade laser active region**  
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## Articles Published in Other Journals

- I. **The Nonlinear Optical Properties of Self-Assembled InAs/GaAs Quantum Dot: Effect of Hydrostatic Pressure and Temperature**  
Jaouane M., El-Bakkari K., AL E. B., Sali A., UNGAN F.

CUMHURİYET SCIENCE JOURNAL, vol.45, pp.386-393, 2024 (Peer-Reviewed Journal)

- II. **Numerical Investigation of Diffraction Patterns of Small Size Apertures Using Light Sources From Xuv to The Visible Region: Simulation for The Small Size Structures**  
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- VII. **The Effect of Electric Field on the Nonlinear Optical Properties in Asymmetric Parabolic Quantum Well Under Intense Laser Field**  
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Cumhuriyet Science Journal, vol.37, no.0, pp.86, 2016 (Peer-Reviewed Journal)
- VIII. **Nonlinear optical rectification the second and third harmonic generation in asymmetric double quantum well under the intense laser field**  
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- IX. **SAFSIZLIK DÜZEYLERİ ARASINDAKİ KIZILÖTESİ GEÇİŞLER ÜZERİNE ELEKTRİK ALAN ETKİSİ**  
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## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Effect of High-Frequency Intense Laser Field on the Binding Energy of Hydrogen-Like Donor Impurity in Semi-Exponential Quantum Well**  
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II. INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING APPLICATIONS, Turkey, 20 May 2021
- II. **Studies on the nonlinear optical properties of two-step GaAs/GaAlAs quantum well**  
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- III. **Generacion de segundo y tercer armonico en pozos cuanticos con potencial de morse**  
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La Sociedad Colombiana de Fisica y el Comité Organizador del XXVI Congreso Nacional De Fisica, 3 - 06 October 2017
- IV. **Optical properties of Tietz-Hua quantum well under the external fields**  
KASAPOĞLU E., UNGAN F., YEŞİLGÜL Ü., ŞAKİROĞLU S., SÖKMEN İ.  
4 th International Conference on Materials Science and Nanotechnology for Next Generation, 28 - 30 June 2017
- V. **Effect of electric field on the nonlinear optical properties in asymmetric double Semi-V-Shaped quantum well**



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- X. **Nonlinear optical properties of asymmetric n-type double delta doped GaAs quantum well**  
UNGAN F., ŞAKİROĞLU S., martinez orozco J. C., restrepo R. L., Duque C. A.  
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- XI. **COMPUTATION OF THE NONLINEAR OPTICAL RECTIFICATION AND SECOND AND THIRD HARMONIC GENERATION IN DOUBLE DOPED GaAs QUANTUM WELLS**  
Martnez Orozco J. C., Rojas Briseo J. G., Mora Ramos M. E., Duque Echeverri C. A., UNGAN F., Restrepo Arango R. L.  
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- XX. **Nonlinear optical rectification and second and third harmonic generation in double doped GaAs Quantum Wells Magnetic field effects**  
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The International Conference on Terahertz Emission, Metamaterials and Nanophotonics, Cartagena, Colombia, 3 - 10 April 2016
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- XXII. **Efectos de laser intenso sobre pozos cuanticos asimetricos de GaAsAl GaAl**  
Restrepo R., KASAPÖĞLU E., UNGAN F., Mora Ramos M., Morales A., Duque C.  
8 vo Taller de Fisica de la Materia Condensada y Molecular, Mexico, 12 - 15 January 2015
- XXIII. **Efectos de laser intenso sobre pozos cuanticos asimetricos de GaAsAl GaAs**  
Restrepo R., KASAPÖĞLU E., UNGAN F., Mora Ramos M., Morales A., Duque C.  
Octavo Taller de Fisica de la materia condensada y molecular, 12 - 14 January 2015
- XXIV. **Investigation of the band structure of GaInNAs/GaAs single quantum well with 10-band k.p model**  
UNGAN F., YEŞİLGÜL Ü., ŞAKİROĞLU S., KASAPÖĞLU E., SÖKMEN İ.  
E-MRS 2010 Spring Meeting, 7 June - 11 July 2010
- XXV. **Finite element analysis of conduction band structure and intersubband transitions of square quantum well under electric field and stress**  
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Nano TR5 Nanoscience and Nanotechnology 2009, 8 - 12 June 2009

## Activities in Scientific Journals

Cumhuriyet Science Journal, Editor, 2022 - Continues

Turkish Journal of Science and Health , Scientific Committee Membership, 2020 - Continues

## Memberships / Tasks in Scientific Organizations

Türk Fizik Derneği, Member, 2019 - Continues, Turkey

## Scientific Refereeing

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, January 2021

SUPERLATTICES AND MICROSTRUCTURES, SCI Journal, January 2021

Cumhuriyet Science Journal, National Scientific Refreed Journal, December 2020

GAZİ UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, December 2020

OPTİK, SCI Journal, November 2020

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, SCI Journal, August 2020

THIN SOLID FILMS, SCI Journal, July 2020

PHYSICA B-CONDENSED MATTER, SCI Journal, April 2020

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, March 2020

SUPERLATTICES AND MICROSTRUCTURES, SCI Journal, February 2020

OPTICAL AND QUANTUM ELECTRONICS, SCI Journal, December 2019

SUPERLATTICES AND MICROSTRUCTURES, SCI Journal, July 2019  
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, SCI Journal, June 2019  
Cumhuriyet Science Journal, National Scientific Refreed Journal, June 2019  
heliyon, Other Indexed Journal, May 2019  
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, SCI Journal, May 2019  
Cumhuriyet Science Journal, National Scientific Refreed Journal, February 2019  
CHINESE PHYSICS B, SCI Journal, February 2019  
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, SCI Journal, February 2019

### **Tasks In Event Organizations**

Ungan F., International Conference on Engineering and Natural Sciences, Scientific Congress, Sarajevo, Bosnia And Herzegovina, Haziran 2021

### **Mobility Activity**

Improving Competencies and Qualifications, Scientific Research, Universidad de Antioquia, Colombia, 2013 - 2013

### **Metrics**

Publication: 202

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