

# **Prof. Dr. FATİH UNGAN**

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## **Uluslararası Araştırmacı ID'leri**

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## **Eğitim Bilgileri**

Doktora, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Fizik , Türkiye 2006 - 2010

Yüksek Lisans, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Fizik , Türkiye 2001 - 2004

Lisans, Karadeniz Teknik Üniversitesi, Fen Fakültesi, Fizik, Türkiye 1996 - 2001

## **Yabancı Diller**

İngilizce, C1 İleri

## **Yaptığı Tezler**

Doktora, Yoğun lazer alanı altında GaInNAs/GaAs kuantum kuyularındaki donor safsızlık atomlarının bağlanma enerjileri, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2010

Yüksek Lisans, Simetrik katkılı çift kuantum kuyusunun potansiyel profilleri ve altbodyapısı, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2004

## **Araştırma Alanları**

Fizik, Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Elektronik yapı, arayüzeylerin, ince filmlerin ve düşük boyutlu yapıların elektrik özellikleri, Optik özellikler, Yoğun madde spektroskopisi, Temel Bilimler

## **Akademik Unvanlar / Görevler**

Prof. Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2021 - Devam Ediyor

Prof. Dr., Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, Optik Mühendisliği, 2019 - 2021

Doç. Dr., Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, Optik Mühendisliği, 2015 - 2019

Doç. Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2013 - 2015

Yrd. Doç. Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2012 - 2013

Araştırma Görevlisi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2001 - 2011

## Akademik İdari Deneyim

Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Optik Mühendisliği Anabilim Dalı (Disiplinlerarası), 2019 - Devam Ediyor  
Bölüm Başkanı, Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, Optik Mühendisliği Bölümü, 2019 - 2021  
Anabilim/Bilim Dalı Başkanı, Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, Optik Mühendisliği Bölümü, 2019 - 2021  
Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Optik Mühendisliği (Yıl) (Tezli), 2015 - 2016  
Sivas Cumhuriyet Üniversitesi, Teknoloji Fakültesi, Optik Mühendisliği Bölümü, 2015 - 2016

## Verdiği Dersler

### **Yüksek Lisans**

İleri Geometrik Optik, Yüksek Lisans, 2019 - 2020  
Seminer Dersi, Yüksek Lisans, 2019 - 2020  
Doğrusal Olmayan Optik, Yüksek Lisans, 2019 - 2020  
Uzmanlık Alan Dersi, Yüksek Lisans, 2019 - 2020  
Yarı İletken Optoelektronik Aygıtlar, Yüksek Lisans, 2019 - 2020  
Yariletken Optoelektronik Aygıtlar, Yüksek Lisans, 2016 - 2017  
İleri Geometrik Optik, Yüksek Lisans, 2016 - 2017  
Yariletken Optoelektronik, Yüksek Lisans, 2014 - 2015  
Seminer Dersi, Yüksek Lisans, 2014 - 2015  
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### **Lisans**

Dinamik, Lisans, 2018 - 2019  
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**Ön Lisans**  
Temel Fizik, Ön Lisans, 2012 - 2013  
Temel Fizik, Ön Lisans, 2011 - 2012

## **Yönetilen Tezler**

Ungan F., TERS V-ŞEKİLLİ BİR KUANTUM KUYUSUNUN DOĞRUSAL VE DOĞRUSAL OLMAYAN OPTİK ÖZELLİKLERİ, Yüksek Lisans, A.Bilgin(Öğrenci), 2019

Ungan F., Çift görüş açılı mekanik objektif tasarımlı, Yüksek Lisans, Ç.KOÇ(Öğrenci), 2019

Ungan F., Elektromanyetik Alan Altındaki Ters Parabolik Bir Kuantum Kuyusunun Optik Özellikleri, Yüksek Lisans, A.TUNCER(Öğrenci), 2019

Ungan F., YARIM V-ŞEKİLLİ KUANTUM KUYUSUNUNOPTİKSEL ÖZELLİKLERİ, Yüksek Lisans, S.Alim(Öğrenci), 2019

Ungan F., GÖRÜNTÜ KALITESİNİN ARTTIRILMASINDA OPTİK YÜZEYLERİN ETKİSİNİN İNCELENMESİ, Yüksek Lisans, L.Açıkgoz(Öğrenci), 2019

Ungan F., Asimetrik Çift Eğimli Kuantum Kuyusunun Optiksel Özellikleri, Yüksek Lisans, H.Seda(Öğrenci), 2018

UNGAN F., Safsızlık düzeyleri arasındaki kızılıotesi geçişler üzerine elektrik alan etkisi, Yüksek Lisans, Y.EMRE(Öğrenci), 2015

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

- I. **Intra and interband optical absorption coefficient for asymmetric double AlGaAs/GaAs quantum well under hydrostatic pressure and electric field effects**  
Maldonado-Villa B., Rodríguez-Magdaleno K., Nava-Maldonado F., Duque C., UNGAN F., Martínez-Orozco J. Physics Letters, Section A: General, Atomic and Solid State Physics, cilt.523, 2024 (SCI-Expanded)
- II. **Effects of doping concentrations and position-dependent mass on the nonlinear optical properties of asymmetric double delta-doped GaAs quantum wells**  
Salman Durmuslar A., AL E. B., Althib H., Mora-Ramos M., UNGAN F. Applied Physics B: Lasers and Optics, cilt.130, sa.10, 2024 (SCI-Expanded)
- III. **Modulation of nonlinear optical rectification, second, and third harmonic generation coefficients in n-type quadruple δ-doped GaAs quantum wells under external fields**  
Sayrac H., Jaouane M., Ed-Dahmouny A., Sali A., UNGAN F. Physica B: Condensed Matter, cilt.690, 2024 (SCI-Expanded)
- IV. **Effects of hydrostatic pressure, temperature, and position-dependent mass on the nonlinear optical properties of triple delta-doped GaAs quantum well**  
TÜZEMEN A. T., AL E. B., Sayrac H., Dakhlaoui H., Mora-Ramos M., UNGAN F. European Physical Journal Plus, cilt.139, sa.8, 2024 (SCI-Expanded)
- V. **Binding Energies and Optical Properties of Power-Exponential and Modified Gaussian Quantum Dots**  
Alauwaji R. M., Dakhlaoui H., Algraphy E., UNGAN F., Wong B. M. Molecules, cilt.29, sa.13, 2024 (SCI-Expanded)
- VI. **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, cilt.99, sa.5, 2024 (SCI-Expanded)
- VII. **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, cilt.139, sa.4, 2024 (SCI-Expanded)
- VIII. **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, cilt.139, sa.4, 2024 (SCI-Expanded)
- IX. **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, cilt.99, sa.4, 2024 (SCI-Expanded)
- X. **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, cilt.17, sa.3, 2024 (SCI-Expanded)
- XI. **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, cilt.147, 2024 (SCI-Expanded)
- XII. **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, cilt.139, sa.1, 2024 (SCI-Expanded)
- XIII. **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, cilt.139, sa.1, 2024 (SCI-Expanded)
- XIV. **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, cilt.55, sa.13, 2023 (SCI-Expanded)
- XV. **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, cilt.138, sa.11, 2023 (SCI-Expanded)
- XVI. **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, cilt.154, 2023 (SCI-Expanded)
- XVII. **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, cilt.138, sa.10, 2023 (SCI-Expanded)
- XVIII. **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, cilt.11, sa.10, 2023 (SCI-Expanded)
- XIX. **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, cilt.129, sa.8, 2023 (SCI-Expanded)
- XX. **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, cilt.152, 2023 (SCI-Expanded)
- XXI. **Investigating the optical, electronic, magnetic properties and DFT of NiO films prepared using RF sputtering with various argon pressures**  
Hopoğlu H., KAYA D., Maslov M. M., KAYA S., DEMİR İ., ALTUNTAŞ İ., UNGAN F., Akyol M., EKİCİBİL A., Tüzemen E.  
Physica B: Condensed Matter, cilt.661, 2023 (SCI-Expanded)
- XXII. **Electronic transmission and conductance oscillations in electrostatic multibarrier system based on graphene monolayer**  
Alsalmi O. H., Dakhlaoui H., Belhadj W., UNGAN F.

- Physica Scripta, cilt.98, sa.7, 2023 (SCI-Expanded)
- XXIII. **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, cilt.138, sa.7, 2023 (SCI-Expanded)
- XXIV. **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, cilt.151, 2023 (SCI-Expanded)
- XXV. **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, cilt.138, sa.6, 2023 (SCI-Expanded)
- XXVI. **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.  
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- XXVII. **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, cilt.277, 2023 (SCI-Expanded)
- XXVIII. **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, cilt.138, sa.4, 2023 (SCI-Expanded)
- XXIX. **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, cilt.147, 2023 (SCI-Expanded)
- XXX. **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, cilt.1274, 2023 (SCI-Expanded)
- XXXI. **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, cilt.1274, 2023 (SCI-Expanded)
- XXXII. **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, cilt.1273, 2023 (SCI-Expanded)
- XXXIII. **Modeling and simulation of the influence of quantum dots density on solar cell properties**  
Jaouane M., Fakkah A., Ed-Dahmouny A., El-Bakkari K., TÜZEMEN A. T., Arraoui R., Sali A., UNGAN F.  
European Physical Journal Plus, cilt.138, sa.2, 2023 (SCI-Expanded)
- XXXIV. **Experimental and theoretical insights on the structural and optical properties of GeO<sub>x</sub> 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, cilt.650, 2023 (SCI-Expanded)
- XXXV. **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, cilt.138, sa.2, 2023 (SCI-Expanded)
- XXXVI. **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, cilt.1272, 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, cilt.138, sa.1, ss.49, 2023 (SCI-Expanded)
- XXXVIII. **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, cilt.44, 2023 (SCI-Expanded)
- XXXIX. **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, cilt.55, sa.1, 2023 (SCI-Expanded)
- XL. **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, cilt.103, sa.21, ss.1980-1991, 2023 (SCI-Expanded)
- XLI. **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, cilt.103, sa.7, ss.693-711, 2023 (SCI-Expanded)
- XLII. **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, cilt.647, 2022 (SCI-Expanded)
- XLIII. **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, cilt.646, 2022 (SCI-Expanded)
- XLIV. **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, cilt.96, sa.12, ss.3485-3492, 2022 (SCI-Expanded)
- XLV. **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, cilt.54, sa.10, 2022 (SCI-Expanded)
- XLVI. **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, cilt.144, 2022 (SCI-Expanded)
- XLVII. **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, cilt.143, 2022 (SCI-Expanded)
- XLVIII. **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, cilt.68, sa.5, 2022 (SCI-Expanded)
- XLIX. **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, cilt.137, sa.9, 2022 (SCI-Expanded)
- L. **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, cilt.12, sa.16, ss.2741, 2022 (SCI-Expanded)
- LI. **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, cilt.137, sa.7, 2022 (SCI-Expanded)
- LII. **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, cilt.137, sa.6, 2022 (SCI-Expanded)
- LIII. **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, cilt.137, sa.5, 2022 (SCI-Expanded)
- LIV. **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, cilt.137, sa.4, 2022 (SCI-Expanded)
- LV. **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, cilt.141, 2022 (SCI-Expanded)
- LVI. **Nonlinear optical properties in  $Al_xGa_{1-x}As/GaAs$  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.  
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- LVII. **Effects of hydrostatic pressure and temperature on the nonlinear optical properties of  $GaAs/GaAlAs$  zigzag quantum well**  
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PHILOSOPHICAL MAGAZINE, cilt.102, sa.23, ss.2428-2443, 2022 (SCI-Expanded)
- LVIII. **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 BILLUR C., Turkoglu A., UNGAN F.  
OPTICS COMMUNICATIONS, cilt.499, 2021 (SCI-Expanded)
- LIX. **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, cilt.136, sa.11, 2021 (SCI-Expanded)
- LX. **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, cilt.620, 2021 (SCI-Expanded)

- LXI. **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, cilt.134, 2021 (SCI-Expanded)
- LXII. **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, cilt.53, sa.9, 2021 (SCI-Expanded)
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## Etkinlik Organizasyonlarındaki Görevler

Ungan F., International Conference on Engineering and Natural Sciences, Bilimsel Kongre / Sempozyum Organizasyonu, Sarajevo, Bosna-Hersek, Haziran 2021

## Akademik Dolaşım Faaliyetleri

Yetkinlik ve Niteliklerin Artırılması, Proje Kapsamında Bilimsel Araştırma, Universidad de Antioquia, Kolombiya, 2013 - 2013

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