

## Prof. Dr. FATİH UNGAN

### Kişisel Bilgiler

İş Telefonu: [+90 346 219 1010](tel:+903462191010) Dahili: 1411

Fax Telefonu: [+90 346 219 1186](tel:+903462191186)

E-posta: [fungan@cumhuriyet.edu.tr](mailto:fungan@cumhuriyet.edu.tr)

Web: <https://avesis.cumhuriyet.edu.tr/fungan>

### Uluslararası Araştırmacı ID'leri

ScholarID: -3R6EmMAAAJ&hl=tr

ORCID: 0000-0003-3533-4150

Yoksis Araştırmacı ID: 55299

### 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 donör safsızlık atomlarının bağlanma enerjileri, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2010

Yüksek Lisans, Simetrik katkılı çift kuantum kuyusunun potansiyel profilleri ve altband yapısı, 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 (YI) (Tezli), 2015 - 2016

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

## Verdiği Dersler

İleri Geometrik Optik, Yüksek Lisans, 2019 - 2020

Dinamik, Lisans, 2018 - 2019

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

Dinamik, Lisans, 2018 - 2019

Dinamik, Lisans, 2017 - 2018

Yarıiletken Optoelektronik Aygıtlar, Yüksek Lisans, 2016 - 2017

İleri Geometrik Optik, Yüksek Lisans, 2016 - 2017

Yarıiletken Optoelektronik, Yüksek Lisans, 2014 - 2015

Dinamik, Lisans, 2014 - 2015

Dinamik, Lisans, 2014 - 2015

Seminer Dersi, Yüksek Lisans, 2014 - 2015

Dinamik, Lisans, 2014 - 2015

Uzmanlık Alan Dersi, Yüksek Lisans, 2014 - 2015

Dinamik, Lisans, 2014 - 2015

Katihal Fiziği, Lisans, 2014 - 2015

Genel Fizik II, Lisans, 2013 - 2014

Genel Fizik II, Lisans, 2013 - 2014

Katihal Fiziği, Lisans, 2014 - 2015

Katihal Fiziği - I, Lisans, 2014 - 2015

Genel Fizik I, Lisans, 2014 - 2015

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Genel Fizik II, Lisans, 2013 - 2014

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Fizik II, Lisans, 2013 - 2014

Temel Fizik, Ön Lisans, 2012 - 2013

Genel Fizik I, Lisans, 2012 - 2013

Fizik-II, Lisans, 2011 - 2012

Temel Bilgisayar Bilimleri, Lisans, 2011 - 2012

Temel Bilgisayar Bilimleri, Lisans, 2011 - 2012

Fizik-II, Lisans, 2011 - 2012

Genel Fizik I, 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 tasarımı, 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 KUYUSUNUN OPTİKSEL ÖZELLİKLERİ, Yüksek Lisans, S.Alim(Öğrenci), 2019  
Ungan F., GÖRÜNTÜ KALİTESİNİN ARTTIRILMASINDA OPTİK YÜZEYLERİN ETKİSİNİN İNCELENMESİ, Yüksek Lisans, L.Açıkgöz(Öğrenci), 2019  
Ungan F., Asimetrik Çift Eğimli Kuantum Kuyusunun Optiksel Özellikleri, Yüksek Lisans, H.Seda(Öğrenci), 2018  
UNGAN F., Safsızlık düzeyleri arasındaki kızılötesi geçişler üzerine elektrik alan etkisi, Yüksek Lisans, Y.EMRE(Öğrenci), 2015

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

- 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, cilt.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, cilt.99, sa.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, cilt.139, sa.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, cilt.99, sa.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.  
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- 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, cilt.17, sa.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, cilt.139, sa.1, 2024 (SCI-Expanded)
- VIII. **Investigation of nonlinear optical rectification within multilayer wurtzite InGa<sub>N</sub>/Ga<sub>N</sub> 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.  
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- 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, cilt.139, sa.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, cilt.55, sa.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, cilt.138, sa.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-Magdalenó K., KASAPOĞLU E., Nava-Maldonado F., UNGAN F., Martínez-Orozco J.  
Physica E: Low-Dimensional Systems and Nanostructures, cilt.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, cilt.11, sa.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, cilt.138, sa.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, cilt.129, sa.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, cilt.152, 2023 (SCI-Expanded)
- XVII. **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)
- 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, cilt.138, sa.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, cilt.98, sa.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, cilt.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, cilt.138, sa.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, cilt.138, sa.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, cilt.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, cilt.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, cilt.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, cilt.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, cilt.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.  
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- 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, cilt.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, cilt.138, sa.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, cilt.138, sa.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, cilt.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, cilt.103, sa.7, ss.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.  
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- 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, cilt.55, sa.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, cilt.103, sa.21, ss.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, cilt.138, sa.1, ss.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, cilt.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, cilt.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, cilt.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, cilt.96, sa.12, ss.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, cilt.54, sa.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, cilt.68, sa.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, cilt.137, sa.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, cilt.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, cilt.12, sa.16, ss.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, cilt.137, sa.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, cilt.137, sa.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, cilt.137, sa.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, cilt.137, sa.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, cilt.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, cilt.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, cilt.102, sa.23, ss.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, cilt.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, cilt.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, cilt.136, sa.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, cilt.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, cilt.53, sa.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, cilt.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, cilt.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, cilt.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., Urgan F.  
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.136, sa.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.  
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## Bilimsel Kuruluşlardaki Üyelikler / Görevler

Türk Fizik DerneĐi, Üye, 2019 - Devam Ediyor , Türkiye

## Bilimsel Hakemlikler

OPTICAL AND QUANTUM ELECTRONICS, SCI Kapsamındaki Dergi, Ocak 2021

SUPERLATTICES AND MICROSTRUCTURES, SCI Kapsamındaki Dergi, Ocak 2021

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Cumhuriyet Science Journal, Hakemli Bilimsel Dergi, Haziran 2019

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EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, SCI Kapsamındaki Dergi, Şubat 2019

## **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

## **Metrikler**

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