

Prof. FATİH UNGAN

Personal Information

Office Phone: [+90 346 219 1010](tel:+903462191010) Extension: 1411

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

Email: fungan@cumhuriyet.edu.tr

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

International Researcher IDs

ScholarID: -3R6EmMAAAJ&hl=tr

ORCID: 0000-0003-3533-4150

Yoksis Researcher ID: 55299

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 KUYUSUNUN OPTİKSEL ÖZELLİKLERİ, Postgraduate, S.Alım(Student), 2019

Ungan F., GÖRÜNTÜ KALİTESİNİN ARTTIRILMASINDA OPTİK YÜZEYLERİN ETKİSİNİN İNCELENMESİ, Postgraduate, L.Açıkgöz(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. **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, vol.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, vol.130, no.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, vol.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, vol.139, no.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, vol.29, no.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, vol.99, no.5, 2024 (SCI-Expanded)
- VII. **Third harmonic generation of a 12–6 GaAs/Ga_{1-x}Al_xAs 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)
- 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, vol.139, no.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, vol.99, no.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, vol.17, no.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, vol.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., Ugan F.
European Physical Journal Plus, vol.139, no.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, vol.139, no.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, vol.55, no.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, vol.138, no.11, 2023 (SCI-Expanded)
- XVI. **Electric field, magnetic field, and hydrostatic pressure effects on the absorption coefficient for GaAs/Al_xGa_{1-x}As/Al_{0.3}Ga_{0.7}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)
- 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, vol.138, no.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, vol.11, no.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, vol.129, no.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, vol.152, 2023 (SCI-Expanded)
- XXI. **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)
- 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, vol.98, no.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, vol.138, no.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, vol.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, vol.138, no.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.
Physica E: Low-Dimensional Systems and Nanostructures, vol.148, 2023 (SCI-Expanded)
- 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, vol.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, vol.138, no.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, vol.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, vol.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, vol.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, vol.1273, 2023 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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)
- 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, vol.138, no.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, vol.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, vol.138, no.1, pp.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, vol.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, vol.55, no.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, vol.103, no.21, pp.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, vol.103, no.7, pp.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, vol.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, vol.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, vol.96, no.12, pp.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, vol.54, no.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, vol.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, vol.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, vol.68, no.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, vol.137, no.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, vol.12, no.16, pp.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, vol.137, no.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, vol.137, no.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, vol.137, no.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, vol.137, no.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, vol.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.
Solid State Communications, vol.342, 2022 (SCI-Expanded)
- LVII. **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)
- 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 BİLLUR C., Turkoglu A., UNGAN F.
OPTICS COMMUNICATIONS, vol.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, vol.136, no.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, vol.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, vol.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, vol.53, no.9, 2021 (SCI-Expanded)
- LXIII. **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)
- LXIV. **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., SARI H.
 THIN SOLID FILMS, vol.732, 2021 (SCI-Expanded)
- LXV. **Donor impurity atom effect on the inter-subband absorption coefficient for symmetric double n-type delta-doped GaAs quantum well**
 Rodriguez-Magdaleno K. A., Turkoglu A., Ungan F., Mora-Ramos M. E., Martinez-Orozco J. C.
 SUPERLATTICES AND MICROSTRUCTURES, vol.156, 2021 (SCI-Expanded)
- LXVI. **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)
- LXVII. **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)
- LXVIII. **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)
- LXIX. **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)
- LXX. **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)
- LXXI. **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)
- LXXII. **Optical analysis of quantum dot with velocity-dependent potential**
 BAHAR M. K., Ungan F., Kaya H., AKKOYUN S.
 INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.121, no.5, 2021 (SCI-Expanded)
- LXXIII. **Optical properties of a triple AlGaAs/GaAs quantum well purported for quantum cascade laser active region**
 BAHAR M. K., Rodriguez-Magdaleno K. A., Martinez-Orozco J. C., Mora-Ramos M. E., Ungan F.
 MATERIALS TODAY COMMUNICATIONS, vol.26, 2021 (SCI-Expanded)
- LXXIV. **Influence of applied external fields on the nonlinear optical properties of a semi-infinite asymmetric Al_xGa_{1-x}As/GaAs quantum well**
 Ungan F., BAHAR M. K., Rodriguez-Magdaleno A., Mora-Ramos M. E., Martinez-Orozco J. C.

- MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.123, 2021 (SCI-Expanded)
- LXXXV. **Control of electronic and optical properties of a laser dressed double quantum dot molecule by lateral electric field**
Barseghyan M. G., Mughnetsyan V. N., Baghranyan H. M., Ungan F., Perez L. M., Laroze D.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.126, 2021 (SCI-Expanded)
- LXXXVI. **Role of external fields on the nonlinear optical properties of a n-type asymmetric delta-doped double quantum well**
Salman Durmuslar A., Mora-Ramos M. E., Ungan F.
OPTICAL AND QUANTUM ELECTRONICS, vol.52, no.11, 2020 (SCI-Expanded)
- LXXXVII. **Optical responses in asymmetric hyperbolic-type quantum wells under the effect of external electromagnetic fields**
Ungan F., Bahar M. K., Martinez-Orozco J., Mora-Ramos M.
Photonics and Nanostructures - Fundamentals and Applications, vol.41, 2020 (SCI-Expanded)
- LXXXVIII. **Electron-related nonlinear optical properties of cylindrical quantum dot with the Rosen-Morse axial potential**
Ungan F., Bahar M. K., Pal S., Mora-Ramos M. E.
COMMUNICATIONS IN THEORETICAL PHYSICS, vol.72, no.7, 2020 (SCI-Expanded)
- LXXXIX. **The laser field controlling on the nonlinear optical specifications of the electric field-triggered Rosen-Morse quantum well**
Ungan F., Bahar M. K.
PHYSICS LETTERS A, vol.384, no.19, 2020 (SCI-Expanded)
- LXXX. **Nonlinear optical properties of n-type asymmetric double delta-doped quantum wells: role of high-frequency laser radiation, doping concentration and well width**
Durmuslar A. S., Eduardo Mora-Ramos M., Ungan F.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.135, no.6, 2020 (SCI-Expanded)
- LXXXI. **Optical properties of n-type asymmetric triple delta-doped quantum well under external fields**
Ungan F., Bahar M. K., Mora-Ramos M. E.
PHYSICA SCRIPTA, vol.95, no.5, 2020 (SCI-Expanded)
- LXXXII. **Studies on the nonlinear optical properties of two-step GaAs/Ga_{1-x}Al_xAs quantum well**
Martinez-Orozco J. C., Ungan F., Rodriguez-Magdaleno K. A.
PHYSICA SCRIPTA, vol.95, no.3, 2020 (SCI-Expanded)
- LXXXIII. **Magneto-optical specifications of Rosen-Morse quantum dot with screw dislocation**
Bahar M. K., Ungan F.
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.120, no.11, 2020 (SCI-Expanded)
- LXXXIV. **Intersubband optical properties of a laser-dressed asymmetric triple quantum well nanostructure**
UNGAN F., Mora-Ramos M. E., Barseghyan M. G., Perez L. M., Laroze D.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.114, 2019 (SCI-Expanded)
- LXXXV. **The optimal ranges for the optical properties of two-electron quantum dot immersed in plasmas**
Bahar M. K., UNGAN F., Soylu A.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.114, 2019 (SCI-Expanded)
- LXXXVI. **Nonlinear optical properties of morse quantum well modulated by THz laser fields**
UNGAN F., Pal S., Bahar M. K., Mora-Ramos M. E.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.113, pp.86-91, 2019 (SCI-Expanded)
- LXXXVII. **Tailoring the optical properties of quantum ring irradiated by THz laser**
Kilic D. G., Sakiroglu S., UNGAN F., Yesilgul U., KASAPOĞLU E., SARİ H., Sokmen I.
PHILOSOPHICAL MAGAZINE, vol.99, no.24, pp.3116-3132, 2019 (SCI-Expanded)
- LXXXVIII. **A theoretical study on the optical properties of a quantum well with short-range bottomless exponential potential**
UNGAN F., Mora-Ramos M. E., Sakiroglu S., SARİ H., Sokmen I.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.33, no.20, 2019 (SCI-Expanded)
- LXXXIX. **The functionality of the external electric and magnetic field on optical specifications of Rosen-Morse**

quantum well

Ungan F., Bahar M. K.

PHYSICA SCRIPTA, vol.94, no.8, 2019 (SCI-Expanded)

- XC. **Effect of applied external fields on the nonlinear optical properties of a Woods-Saxon potential quantum well**
Ungan F., Mora-Ramos M. E., Yesilgul U., Sari H., Sokmen I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.111, pp.167-171, 2019 (SCI-Expanded)
- XCII. **Effect of the High-Frequency Laser Radiation on the Nonlinear Optical Properties of n-Type Double delta-Doped GaAs Quantum Wells**
UNGAN F., SARI H., KASAPOĞLU E., YEŞİLGÜL Ü., ŞAKİROĞLU S., SÖKMEN İ.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.19, no.7, pp.4167-4171, 2019 (SCI-Expanded)
- XCIII. **Computation of the nonlinear optical properties of n-type asymmetric triple delta-doped GaAs quantum well**
Ungan F., Pal S., Bahar M. K., Mora-Ramos M. E.
SUPERLATTICES AND MICROSTRUCTURES, vol.130, pp.76-86, 2019 (SCI-Expanded)
- XCIII. **Hydrostatic Pressure and Temperature Effect on the Electron-Related Optical Responses in Symmetric and Asymmetric n-Type Double Delta-Doped GaAs Quantum Well Under Terahertz Laser Field**
Ungan F., Mora-Ramos M. E., Sari H., Sokmen I.
JOURNAL OF ELECTRONIC MATERIALS, vol.48, no.6, pp.3537-3546, 2019 (SCI-Expanded)
- XCIV. **Intense laser-induced electronic and optical properties in double finite oscillator potential**
Sari H., Ungan F., Kasapoglu E., Sakiroglu S., Sokmen I.
PHILOSOPHICAL MAGAZINE, vol.99, no.19, pp.2444-2456, 2019 (SCI-Expanded)
- XCIV. **Hydrogenic donor impurities in delta-doped cylindrical quantum dots under intense laser field**
Sari H., Ungan F., Sakiroglu S., Yesilgul U., Sokmen I.
LASER PHYSICS, vol.29, no.5, 2019 (SCI-Expanded)
- XCVI. **Optical specifications of laser-induced Rosen-Morse quantum well**
UNGAN F., Bahar M. K.
OPTICAL MATERIALS, vol.90, pp.231-237, 2019 (SCI-Expanded)
- XCVII. **Electron-related optical responses in triple delta-doped quantum wells**
Ungan F., Mora-Ramos M. E., Kasapoglu E., Sari H., Sokmen I.
PHILOSOPHICAL MAGAZINE, vol.99, no.5, pp.644-658, 2019 (SCI-Expanded)
- XCVIII. **Effect of applied electric field on the nonlinear optical properties of modulation-doped GaAs/Al_xGa_{1-x}As double quantum well**
Ungan F., Martinez-Orozco J. C., Restrepo R. L., Mora-Ramos M. E., Duque C. A.
SUPERLATTICES AND MICROSTRUCTURES, vol.126, pp.89-97, 2019 (SCI-Expanded)
- XCIX. **The nonlinear optical properties of GaAs-based quantum wells with Kratzer Fues confining potential: Role of applied static fields and non-resonant laser radiation**
UNGAN F., Martinez-Orozco J. C., Restrepo R. L., Mora-Ramos M. E.
OPTIK, vol.185, pp.881-887, 2019 (SCI-Expanded)
- C. **Nonlinear optical properties of a semi-exponential quantum wells: Effect of high-frequency intense laser field**
Yesilgul U., UNGAN F., Sakiroglu S., SARI H., KASAPOĞLU E., Sokmen I.
OPTIK, vol.185, pp.311-316, 2019 (SCI-Expanded)
- CI. **Nonlinear optical properties of triple delta-doped quantum wells: The impact of the applied external fields**
Ungan F., Mora-Ramos M. E., Kasapoglu E., Sari H., Sokmen I.
OPTIK, vol.180, pp.387-393, 2019 (SCI-Expanded)
- CII. **The electron-related optical responses for the square tangent quantum well: Role of applied external fields**
UNGAN F., Pal S., Mora-Ramos M. E., Martinez-Orozco J. C.

OPTIK, vol.188, pp.12-18, 2019 (SCI-Expanded)

- CIII. **Study of electron-related optical responses in the Tietz-Hua quantum well: Role of applied external fields**
Ungan F., Sari H., Kasapoglu E., Yesilgul U., Sakiroglu S., Sokmen I.
PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS, vol.32, pp.47-52, 2018 (SCI-Expanded)
- CIV. **Electron-related optical responses in Gaussian potential quantum wells: Role of intense laser field**
Sari H., Ungan F., Sakiroglu S., Yesilgul U., Kasapoglu E., Sokmen I.
PHYSICA B-CONDENSED MATTER, vol.545, pp.250-254, 2018 (SCI-Expanded)
- CV. **Impurity-related optical response in cylindrical quantum dots with a delta-doped axial potential under an intense laser field**
Sari H., Ungan F., Sakiroglu S., Yesilgul U., Sokmen I.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.120, pp.279-286, 2018 (SCI-Expanded)
- CVI. **Third-harmonic generation of a laser-driven quantum dot with impurity**
Sakiroglu S., Kilic D. G., Yesilgul U., Ungan F., Kasapoglu E., Sari H., Solunen I.
PHYSICA B-CONDENSED MATTER, vol.539, pp.101-105, 2018 (SCI-Expanded)
- CVII. **Intermediate band formation in a delta-doped like QW superlattices of GaAs/Al_xGa_{1-x}As for solar cell design**
Del Rio-De Santiago A., Martinez-Orozco J. C., Rodriguez-Magdalen K. A., Contreras-Solorio D. A., Rodriguez-Vargas I., Ungan F.
SUPERLATTICES AND MICROSTRUCTURES, vol.115, pp.191-196, 2018 (SCI-Expanded)
- CVIII. **Nonlinear optical properties of asymmetric double-graded quantum wells**
Aydinoglu H. S., Sakiroglu S., Sari H., Ungan F., Sokmen I.
PHILOSOPHICAL MAGAZINE, vol.98, no.23, pp.2151-2163, 2018 (SCI-Expanded)
- CIX. **The effects of intense laser field on optical responses of n-type delta doped GaAs quantum well under applied electric and magnetic fields**
Sari H., Ungan F., Sakiroglu S., Yesilgul U., Sokmen I.
OPTIK, vol.162, pp.76-80, 2018 (SCI-Expanded)
- CX. **Optical properties of the Tietz-Hua quantum well under the applied external fields**
Kasapoglu E., Sakiroglu S., Ungan F., Yesilgul U., Duque C. A., Sokmen I.
PHYSICA B-CONDENSED MATTER, vol.526, pp.127-131, 2017 (SCI-Expanded)
- CXI. **Effect of the magnetic field on the nonlinear optical rectification and second and third harmonic generation in double delta-doped GaAs quantum wells**
Martinez-Orozco J. C., Rojas-Briseno J. G., Rodriguez-Magdaleno K. A., Rodriguez-Vargas I., Mora-Ramos M. E., Restrepo R. L., Ungan F., Kasapoglu E., Duque C. A.
PHYSICA B-CONDENSED MATTER, vol.525, pp.30-35, 2017 (SCI-Expanded)
- CXII. **Intense laser field effects on the third-harmonic generation in a quantum pseudodot system**
Sakiroglu S., Kilic D. G., Yesilgul U., Ungan F., Kasapoglu E., Sari H., Sokmen I.
PHYSICA B-CONDENSED MATTER, vol.521, pp.215-220, 2017 (SCI-Expanded)
- CXIII. **Nonlinear optical properties of asymmetric n-type double delta-doped GaAs quantum well under intense laser field**
SARI H., KASAPÖĞLU E., YEŞİLGÜL Ü., ŞAKIROĞLU S., UNGAN F., SÖKMEN İ.
EUROPEAN PHYSICAL JOURNAL B, vol.90, no.9, 2017 (SCI-Expanded)
- CXIV. **Second and third harmonic generation associated to infrared transitions in a Morse quantum well under applied electric and magnetic fields**
Restrepo R. L., Kasapoglu E., Sakiroglu S., Ungan F., Morales A. L., Duque C. A.
INFRARED PHYSICS & TECHNOLOGY, vol.85, pp.147-153, 2017 (SCI-Expanded)
- CXV. **Combined effects of the intense laser field, electric and magnetic fields on the optical properties of n-type double delta-doped GaAs quantum well**
Sari H., Kasapoglu E., Sakiroglu S., Yesilgul U., Ungan F., Sokmen I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.90, pp.214-217, 2017 (SCI-Expanded)

- CXVI. **Intense laser field effects on the intersubband optical absorption and refractive index change in the delta-doped GaAs quantum wells**
Sari H., Yesilgul U., Ungan F., Sakiroglu S., Kasapoglu E., Sokmen I.
CHEMICAL PHYSICS, vol.487, pp.11-15, 2017 (SCI-Expanded)
- CXVII. **The effects of the intense laser field on the optical properties of the asymmetric parabolic quantum well**
Kasapoglu E., UNGAN F., YEŞİLGÜL Ü.
OPTICAL AND QUANTUM ELECTRONICS, vol.49, no.4, 2017 (SCI-Expanded)
- CXVIII. **Optical response in a laser-driven quantum pseudodot system**
Kilic D. G., Sakiroglu S., Ungan F., Yesilgul U., Kasapoglu E., Sari H., Sokmen I.
PHYSICA B-CONDENSED MATTER, vol.509, pp.10-15, 2017 (SCI-Expanded)
- CXIX. **Effects of electromagnetic fields on the nonlinear optical properties of CrossMaric asymmetric double quantum well under intense laser field**
Yesilgul U., Sari H., Ungan F., Martinez-Orozco J. C., Restrepo R. L., Mora-Ramos M. E., Duque C. A., Sokmen I.
CHEMICAL PHYSICS, vol.485, pp.81-87, 2017 (SCI-Expanded)
- CXX. **Electron Raman scattering in a double quantum well tuned by an external nonresonant intense laser field**
Tiutiunyk A., Mora-Ramos M. E., Morales A. L., Duque C. M., Restrepo R. L., Ungan F., Martinez-Orozco J. C., Kasapoglu E., Duque C. A.
OPTICAL MATERIALS, vol.64, pp.496-501, 2017 (SCI-Expanded)
- CXXI. **The effect of the intense laser field on the electronic states and optical properties of n-type double delta-doped GaAs quantum wells**
Kasapoglu E., Yesilgul U., Ungan F., Sokmen I., Sari H.
OPTICAL MATERIALS, vol.64, pp.82-87, 2017 (SCI-Expanded)
- CXXII. **Effects of applied electric and magnetic fields on the nonlinear optical rectification and second-harmonic generation in a graded quantum well under intense laser field**
UNGAN F.
EUROPEAN PHYSICAL JOURNAL B, vol.90, no.1, 2017 (SCI-Expanded)
- CXXIII. **Effects of magnetic field, hydrostatic pressure and temperature on the nonlinear optical properties in symmetric double semi-V-shaped quantum well**
Yesilgul U., Ungan F., Al E. B., Kasapoglu E., Sari H., Sokmen I.
OPTICAL AND QUANTUM ELECTRONICS, vol.48, no.12, 2016 (SCI-Expanded)
- CXXIV. **Infrared transitions between hydrogenic states in GaInNAs/GaAs quantum wells**
Al E. B., Ungan F., Yesilgul U., Kasapoglu E., Sari H., Sokmen I.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.30, no.22, 2016 (SCI-Expanded)
- CXXV. **Linear and nonlinear optical properties in an asymmetric double quantum well under intense laser field: Effects of applied electric and magnetic fields**
Yesilgul U., Al E. B., Martinez-Orozco J. C., Restrepo R. L., Mora-Ramos M. E., Duque C. A., Ungan F., Kasapoglu E.
OPTICAL MATERIALS, vol.58, pp.107-112, 2016 (SCI-Expanded)
- CXXVI. **Electronic structure and optical properties of triangular GaAs/AlGaAs quantum dots: Exciton and impurity states**
Tiutiunyk A., Akimov V., Tulupenko V., Mora-Ramos M. E., Kasapoglu E., Ungan F., Sokmen I., Morales A. L., Duque C. A.
PHYSICA B-CONDENSED MATTER, vol.484, pp.95-108, 2016 (SCI-Expanded)
- CXXVII. **Intense laser field effects on a Woods-Saxon potential quantum well**
Restrepo R. L., Morales A. L., Akimov V., Tulupenko V., Kasapoglu E., Ungan F., Duque C. A.
SUPERLATTICES AND MICROSTRUCTURES, vol.87, pp.143-148, 2015 (SCI-Expanded)
- CXXVIII. **Linear and nonlinear optical properties in asymmetric double semi-V-shaped quantum well**
Yesilgul U., Ungan F., Kasapoglu E., Sari H., Sokmen I.
PHYSICA B-CONDENSED MATTER, vol.475, pp.110-116, 2015 (SCI-Expanded)
- CXXIX. **Effects of applied electric and magnetic fields on the nonlinear optical properties of asymmetric**

GaAs/Ga_{1-x}Al_xAs double inverse parabolic quantum well

Al E. B., Ungan F., Yesilgul U., Kasapoglu E., Sari H., Sokmen I.

OPTICAL MATERIALS, vol.47, pp.1-6, 2015 (SCI-Expanded)

- CXXX. **Nonlinear optical rectification and second-harmonic generation in a semi-parabolic quantum well under intense laser field: Effects of electric and magnetic fields**
Ungan F., Martinez-Orozco J. C., Restrepo R. L., Mora-Ramos M. E., Kasapoglu E., Duque C. A.
SUPERLATTICES AND MICROSTRUCTURES, vol.81, pp.26-33, 2015 (SCI-Expanded)
- CXXXI. **Combined effects of intense laser field, electric and magnetic fields on the nonlinear optical properties of the step-like quantum well**
Kasapoglu E., Duque C. A., Mora-Ramos M. E., Restrepo R. L., Ungan F., Yesilgul U., Sari H., Sokmen I.
MATERIALS CHEMISTRY AND PHYSICS, vol.154, pp.170-175, 2015 (SCI-Expanded)
- CXXXII. **The effects of intense laser field and applied electric and magnetic fields on optical properties of an asymmetric quantum well**
Restrepo R. L., Ungan F., Kasapoglu E., Mora-Ramos M. E., Morales A. L., Duque C. A.
PHYSICA B-CONDENSED MATTER, vol.457, pp.165-171, 2015 (SCI-Expanded)
- CXXXIII. **Donor impurity states and related optical responses in triangular quantum dots under applied electric field**
Kasapoglu E., Ungan F., Sari H., Sokmen I., Mora-Ramos M. E., Duque C. A.
SUPERLATTICES AND MICROSTRUCTURES, vol.73, pp.171-184, 2014 (SCI-Expanded)
- CXXXIV. **The effects of the electric and magnetic fields on the nonlinear optical properties in the step-like asymmetric quantum well**
Kasapoglu E., Ungan F., Duque C. A., Yesilgul U., Mora-Ramos M. E., Sari H., Sokmen I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.61, pp.107-110, 2014 (SCI-Expanded)
- CXXXV. **Electron-related optical responses in triangular quantum dots**
Tiutiunnyk A., Tulupenko Y., Mora-Ramos M. E., Kasapoglu E., Ungan F., Sari H., Sokmen I., Duque C. A.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.60, pp.127-132, 2014 (SCI-Expanded)
- CXXXVI. **Linear and nonlinear optical properties in a double inverse parabolic quantum well under applied electric and magnetic fields**
Ungan F., Mora-Ramos M. E., Duque C. A., Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.66, pp.129-135, 2014 (SCI-Expanded)
- CXXXVII. **Intense Laser Field Effects on the Shallow-Donor Impurity States in Rectangular-Shaped Quantum Well Wires**
Duque C. A., Mora-Ramos M. E., Yesilgul U., Ungan F., Sakiroglu S., Kasapoglu E., Sari H., Sokmen I.
ACTA PHYSICA POLONICA A, vol.125, no.2, pp.198-201, 2014 (SCI-Expanded)
- CXXXVIII. **Intersubband optical absorption coefficients and refractive index changes in a graded quantum well under intense laser field: Effects of hydrostatic pressure, temperature and electric field**
Ungan F., Restrepo R. L., Mora-Ramos M. E., Morales A. L., Duque C. A.
PHYSICA B-CONDENSED MATTER, vol.434, pp.26-31, 2014 (SCI-Expanded)
- CXXXIX. **Effect of intense high-frequency laser field on the linear and nonlinear intersubband optical absorption coefficients and refractive index changes in a parabolic quantum well under the applied electric field**
Yesilgul U., Ungan F., Sakiroglu S., Mora-Ramos M. E., Duque C. A., Kasapoglu E., Sari H., Sokmen I.
JOURNAL OF LUMINESCENCE, vol.145, pp.379-386, 2014 (SCI-Expanded)
- CXL. **Simultaneous effects of hydrostatic pressure and temperature on the nonlinear optical properties in a parabolic quantum well under the intense laser field**
Ungan F., Yesilgul U., Sakiroglu S., Mora-Ramos M. E., Duque C. A., Kasapoglu E., Sari H., Sokmen I.
OPTICS COMMUNICATIONS, vol.309, pp.158-162, 2013 (SCI-Expanded)
- CXLI. **Impurity-related linear and nonlinear optical response in quantum-well wires with triangular cross section**
Duque C. A., Mora-Ramos M. E., Kasapoglu E., Ungan F., Yesilgul U., Sakiroglu S., Sari H., Sokmen I.
JOURNAL OF LUMINESCENCE, vol.143, pp.304-313, 2013 (SCI-Expanded)

- CXLII. **Nonlinear optical absorption and refractive index in GaInNAs/GaAs double quantum wells under intense laser field and applied electric field**
Ungan F., Yesilgul U., Sakiroglu S., Kasapoglu E., Sari H., Sokmen I.
JOURNAL OF LUMINESCENCE, vol.143, pp.75-80, 2013 (SCI-Expanded)
- CXLIII. **Effects of applied electromagnetic fields on the optical transitions in a V-shaped quantum well**
Yesilgul U., Ungan F., Sakiroglu S., Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.58, pp.87-93, 2013 (SCI-Expanded)
- CXLIV. **Effects of indium and nitrogen mole concentrations on the optical properties in a GaInNAs/GaAs quantum well under the intense laser field**
Ungan F., Sakiroglu S., Yesilgul U., Erol A., Kasapoglu E., Sari H., Sokmen I.
JOURNAL OF LUMINESCENCE, vol.134, pp.208-212, 2013 (SCI-Expanded)
- CXLV. **Effects of an intense, high-frequency laser field on bound states in Ga_{1-x}In_xNyAs_{1-y}/GaAs double quantum well**
UNGAN F., YEŞİLGÜL Ü., ŞAKİROĞLU S., KASAPOĞLU E., Erol A., Arıkan M. C., SARİ H., SÖKMEN İ.
NANOSCALE RESEARCH LETTERS, vol.7, 2012 (SCI-Expanded)
- CXLVI. **The effect of magnetic field on the impurity binding energy of shallow donor impurities in a Ga_{1-x}In_xNyAs_{1-y}/GaAs quantum well**
YEŞİLGÜL Ü., UNGAN F., ŞAKİROĞLU S., Duque C., Mora-Ramos M., KASAPOĞLU E., SARİ H., SÖKMEN İ.
NANOSCALE RESEARCH LETTERS, vol.7, 2012 (SCI-Expanded)
- CXLVII. **Effects of applied electromagnetic fields on the linear and nonlinear optical properties in an inverse parabolic quantum well**
Ungan F., Yesilgul U., Kasapoglu E., Sari H., Sokmen I.
JOURNAL OF LUMINESCENCE, vol.132, no.7, pp.1627-1631, 2012 (SCI-Expanded)
- CXLVIII. **Electronic band structure of GaAs/Al_xGa_{1-x}As superlattice in an intense laser field**
Sakiroglu S., Yesilgul U., Ungan F., Duque C. A., Kasapoglu E., Sari H., Sokmen I.
JOURNAL OF LUMINESCENCE, vol.132, no.6, pp.1584-1588, 2012 (SCI-Expanded)
- CXLIX. **Nonlinear optical rectification and the second and third harmonic generation in Poschl-Teller quantum well under the intense laser field**
Sakiroglu S., Ungan F., Yesilgul U., Mora-Ramos M. E., Duque C. A., Kasapoglu E., Sari H., Sokmen I.
PHYSICS LETTERS A, vol.376, no.23, pp.1875-1880, 2012 (SCI-Expanded)
- CL. **OPTICAL INTERSUBBAND TRANSITIONS AND BINDING ENERGIES OF DONOR IMPURITIES IN Ga_{1-x}In_xNyAs_{1-y}/GaAs/Al_{0.3}Ga_{0.7}As QUANTUM WELL UNDER THE ELECTRIC FIELD**
Ungan F., Yesilgul U., Kasapoglu E., Sari H., Sokmen I.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.26, no.6, 2012 (SCI-Expanded)
- CLI. **Effects of an intense, high-frequency laser field on the binding energy of excitons confined in a GaInNAs/GaAs quantum well**
Yesilgul U., Ungan F., Kasapoglu E., Sari H., Sokmen I.
PHYSICA B-CONDENSED MATTER, vol.407, no.3, pp.528-532, 2012 (SCI-Expanded)
- CLII. **The effects of hydrostatic pressure and intense laser field on the linear and nonlinear optical properties of a square quantum well**
Ungan F., Yesilgul U., Kasapoglu E., Sari H., Sokmen I.
OPTICS COMMUNICATIONS, vol.285, no.3, pp.373-377, 2012 (SCI-Expanded)
- CLIII. **THE INTERSUBBAND TRANSITIONS AND BINDING ENERGY OF SHALLOW DONOR IMPURITIES IN DIFFERENT SHAPED QUANTUM WELLS UNDER THE MAGNETIC FIELD**
Yesilgul U., Ungan F., Kasapoglu E., Sari H., Sokmen I.
MODERN PHYSICS LETTERS B, vol.25, no.32, pp.2451-2459, 2011 (SCI-Expanded)
- CLIV. **The effect of the intense laser field on the intersubband transitions in Ga_{1-x}In_xNyAs_{1-y}/GaAs single quantum well**
Ungan F., Kasapoglu E., Duque C. A., Sari H., Sokmen I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.44, no.2, pp.515-520, 2011 (SCI-Expanded)
- CLV. **Intensity-dependent nonlinear optical properties in a modulation-doped single quantum well**

- Ungan F.
JOURNAL OF LUMINESCENCE, vol.131, no.11, pp.2237-2243, 2011 (SCI-Expanded)
- CLVI. **Intersubband optical absorption coefficients and refractive index changes in modulation-doped asymmetric double quantum well**
Ungan F., Kasapoglu E., Sokmen I.
SOLID STATE COMMUNICATIONS, vol.151, no.20, pp.1415-1419, 2011 (SCI-Expanded)
- CLVII. **The linear and nonlinear intersubband optical absorption coefficients and refractive index changes in a V-shaped quantum well under the applied electric and magnetic fields**
Yesilgul U., Ungan F., Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.50, no.4, pp.400-410, 2011 (SCI-Expanded)
- CLVIII. **THE EFFECTS OF TEMPERATURE AND HYDROSTATIC PRESSURE ON THE DIAMAGNETIC SUSCEPTIBILITY OF A DONOR IN A QUANTUM WELL**
Yesilgul U., Ungan F., Kasapoglu E., Sari H., Sokmen I.
SURFACE REVIEW AND LETTERS, vol.18, no.5, pp.147-152, 2011 (SCI-Expanded)
- CLIX. **Dependence of impurity binding energy on nitrogen and indium concentrations for shallow donors in a GaInNAs/GaAs quantum well under intense laser field**
Ungan F., Kasapoglu E., Sari H., Sokmen I.
EUROPEAN PHYSICAL JOURNAL B, vol.82, pp.313-318, 2011 (SCI-Expanded)
- CLX. **Effects of an Intense Laser Field and Hydrostatic Pressure on the Intersubband Transitions and Binding Energy of Shallow Donor Impurities in a Quantum Well**
Yesilgul U., Ungan F., Kasapoglu E., Sari H., Sokmen I.
CHINESE PHYSICS LETTERS, vol.28, no.7, 2011 (SCI-Expanded)
- CLXI. **The effect of hydrostatic pressure on subband structure and optical transitions in modulation-doped quantum well**
Ungan F., Yesilgul U., Sakiroglu S., Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.49, no.6, pp.635-643, 2011 (SCI-Expanded)
- CLXII. **The effects of the intense laser field on bound states in $GaxIn_{1-x}NyAs_{1-y}/GaAs$ single quantum well**
Ungan F., Kasapoglu E., Duque C. A., Yesilgul U., Sakiroglu S., Sokmen I.
EUROPEAN PHYSICAL JOURNAL B, vol.80, no.1, pp.89-93, 2011 (SCI-Expanded)
- CLXIII. **Effects of an intense, high-frequency laser field on the intersubband transitions and impurity binding energy in semiconductor quantum wells**
Ungan F., Yesilgul U., Sakiroglu S., Kasapoglu E., Sari H., Sokmen I.
PHYSICS LETTERS A, vol.374, no.29, pp.2980-2984, 2010 (SCI-Expanded)
- CLXIV. **The hydrostatic pressure and temperature effects on donor impurities in cylindrical quantum wire under the magnetic field**
Kasapoglu E., Ungan F., Sari H., Sokmen I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.42, no.5, pp.1623-1626, 2010 (SCI-Expanded)
- CLXV. **The diamagnetic susceptibilities of donors in quantum wells with anisotropic effective mass**
KASAPOĞLU E., UNGAN F., Sari H., Soekmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.46, no.6, pp.817-822, 2009 (SCI-Expanded)
- CLXVI. **Inter-sub-band transitions and binding energies of donor impurities in a modulation-doped quantum well in the presence of electric field**
UNGAN F., KASAPOĞLU E., Sari H., Soekmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.46, no.6, pp.864-871, 2009 (SCI-Expanded)
- CLXVII. **Binding energies of donor impurities in modulation-doped GaAs/Al_xGa_{1-x}As double quantum wells under an electric field**
Kasapoglu E., Ungan F., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.45, no.6, pp.618-623, 2009 (SCI-Expanded)
- CLXVIII. **ELECTRONIC STRUCTURE AND BAND BENDING OF MODULATION-DOPED GaAs/Al_xGa_{1-x}As SYMMETRIC AND ASYMMETRIC DOUBLE QUANTUM WELLS UNDER AN APPLIED ELECTRIC FIELD**
Ungan F., Kasapoglu E., Sari H., Sokmen I.

- SURFACE REVIEW AND LETTERS, vol.16, no.1, pp.105-110, 2009 (SCI-Expanded)
- CLXIX. **The variation of electronic properties with the doping concentration of modulation-doped Al_xGa_{1-x}As-GaAs double quantum wells**
Ungan F., Ozturk E., Ergun Y., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.41, no.1, pp.22-28, 2007 (SCI-Expanded)
- CLXX. **Subband structure and band bending in symmetric modulation-doped double quantum wells**
Ungan F., Ozturk E., Ergun Y., Sokmen I.
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol.29, no.1, pp.27-31, 2005 (SCI-Expanded)

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**
SAYRAÇ M., KAYNAR E., UNGAN F.
Cumhuriyet Science Journal, vol.44, no.2, pp.377-383, 2023 (Peer-Reviewed Journal)
- III. **Investigation of the Structural and Thermodynamic Parameters on the Nonlinear Optical Properties of InGaAs/InP Triple Quantum Well Exposed to an External Electric Field**
SAYRAÇ M., Dakhlaoui H., Mora-Ramos M. E., UNGAN F.
International Journal of Nanoscience and Nanotechnology, vol.19, pp.277-293, 2023 (Scopus)
- IV. **Exploring the Nonlinear Optical Behaviour of InGaAs/GaAs Triple Quantum Wells via Structural Modulations and External Electric Fields**
SAYRAÇ M., Dakhlaoui H., Mora-Ramos M., UNGAN F.
International Journal of Nanoscience and Nanotechnology, vol.19, pp.249-262, 2023 (Scopus)
- V. **The effects of temperature and pressure on the optical properties of a donor impurity in (In,Ga)N/GaN multilayer cylindrical quantum dots**
Jaouane M., Sali A., Fakkahi A., Arraoui R., UNGAN F.
Micro and Nanostructures, vol.163, 2022 (Scopus)
- VI. **Nonlinear Optical Properties of a Quantum Well With Short-Range Bottomless Exponential Potential**
UNGAN F.
Cumhuriyet Science Journal, vol.39, no.4, pp.934-939, 2018 (Peer-Reviewed Journal)
- VII. **The Effect of Electric Field on the Nonlinear Optical Properties in Asymmetric Parabolic Quantum Well Under Intense Laser Field**
UNGAN F., YEŞİLGÜL Ü., SARI H.
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**
Yeşilgül Ü., Al E. B., Ungan F., Kasapoğlu E.
Cumhuriyet Science Journal, vol.37, no.4, 2016 (Peer-Reviewed Journal)
- IX. **SAFSIZLIK DÜZEYLERİ ARASINDAKİ KIZILÖTESİ GEÇİŞLER ÜZERİNE ELEKTRİK ALAN ETKİSİ**
Al E. B., Yıldız Y. E., Ungan F.
Cumhuriyet Science Journal, vol.36, no.7, pp.153-173, 2015 (Peer-Reviewed Journal)

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

Türkoğlu A., UNGAN F.

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**
Rodríguez-Magdaleno K., UNGAN F., Rodríguez-Magdaleno K., De Santiago A. D. R.
APS March Meeting 2019, 4 - 08 March 2019
- III. **Generacion de segundo y tercer armonico en pozos cuanticos con potencial de morse**
Restrepo Arango R. L., KASAPOĞLU E., UNGAN F., Martinez Orozco J. C., Morales A A. L., Duque E C. A.
La Sociedad Colombiana de Fisica y el Comite 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**
YEŞİLGÜL Ü., UNGAN F., ŞAKİROĞLU S., SÖKMEN İ., SARI H., KASAPOĞLU E.
4 th International Conference on Materials Science and Nanotechnology for Next Generation, 28 - 30 June 2017
- VI. **Nonlinear optical rectification and second and third harmonic generation in n-type double delta doped GaAs quantum well under intense laser field**
UNGAN F., YEŞİLGÜL Ü., ŞAKİROĞLU S., KASAPOĞLU E., SÖKMEN İ., SARI H.
4 th International Conference on Materials Science and Nanotechnology for Next Generation, 28 - 30 June 2017
- VII. **Nonlinear optical properties of asymmetric double graded quantum well under intense laser field**
Aydınoglu H. S., UNGAN F., YEŞİLGÜL Ü., KASAPOĞLU E., SARI H., SÖKMEN İ.
4 th International Conference on Materials Science and Nanotechnology for Next Generation, 28 - 30 June 2017
- VIII. **The effects of intense laser field and applied electric and magnetic fields on optical properties of n-type delta doped GaAs quantum well**
YEŞİLGÜL Ü., UNGAN F., ŞAKİROĞLU S., KASAPOĞLU E., SÖKMEN İ., SARI H.
4 th International Conference on Materials Science and Nanotechnology for Next Generation, 28 - 30 June 2017
- IX. **Nonlinear optical properties of double graded quantum well under intense laser field**
UNGAN F., YEŞİLGÜL Ü., KASAPOĞLU E., SARI H., SÖKMEN İ.
3 rd International Conference on Engineering and Natural Sciences, 3 - 07 May 2017
- 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.
3 rd International Conference on Engineering and Natural Sciences, 3 - 07 May 2017
- 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.
The Nanostructured Materials and Nanotechnology Symposium at the XXV International Materials Research Congress, Cancun, Mexico, 14 August - 19 April 2016
- XII. **NONLINEAR OPTICAL RECTIFICATION THE SECOND AND THIRD HARMONIC GENERATION IN AN ASYMMETRIC DOUBLE QUANTUM WELL UNDER THE INTENSE LASER FIELD**
Al E. B., Yeşilgöl Ü., Ugan F., Kasapoğlu E.
16th International Balkan Workshop on Applied Physics and Materials Science, Constanta, Romania, 7 - 09 July 2016, pp.86-87
- XIII. **Nonlinear Optical Rectification The Second And Third Harmonic Generation In Asymmetric Double Quantum Well Under The Intense Laser Field**
AL E. B., YEŞİLGÜL Ü., UNGAN F., KASAPOĞLU E.
IBWAP 2016, Constanta, Romania, 7 September - 09 July 2016
- XIV. **Effect Of An Intense Laser Field On The Nonlinear Optical Rectification And Second Harmonic Generation In Asymmetric Double Quantum Well Under The Hydrostatic Pressure And Temperature**
UNGAN F., YEŞİLGÜL Ü., KASAPOĞLU E.

IBWAP 2016, Constanta, Romania, 7 - 09 July 2016

- XV. **Nonlinear optical rectification the second and third harmonic generation in asymmetric double quantum well under the intense laser field**
AL E. B., YEŞİLGÜL Ü., UNGAN F., KASAPOĞLU E.
The 16 th International Balkan Workshop on Applied Physics, Constanta, Romania, 7 - 09 July 2016
- XVI. **Optical Properties Of Asymmetric Parabolic Quantum Well Under The Intense Laser Field**
KASAPOĞLU E., UNGAN F., YEŞİLGÜL Ü.
IBWAP 2016, Constanta, Romania, 7 - 09 July 2016
- XVII. **Effects of an intense laser field on the nonlinear optical rectification and second harmonic generation in asymmetric double quantum well under the hydrostatic pressure and temperature**
UNGAN F., YEŞİLGÜL Ü., KASAPOĞLU E.
The 16 th International Balkan Workshop on Applied Physics, Costanta, Romania, 7 - 09 July 2016
- XVIII. **The effect of electric field on the nonlinear optical properties in asymmetric parabolic quantum well under intense laser field**
Yeşilgül Ü., Ugan F., Al E. B., Kasapoğlu E.
The 16 th International Balkan Workshop on Applied Physics, Constanta, Romania, 7 - 09 July 2016
- XIX. **Optical properties of asymmetric parabolic quantum well under the intense laser field**
KASAPOĞLU E., UNGAN F., YEŞİLGÜL Ü.
The 16 th International Balkan Workshop on Applied Physics, Constanta, Romania, 7 - 09 July 2016
- XX. **Nonlinear optical rectification and second and third harmonic generation in double doped GaAs Quantum Wells Magnetic field effects**
Martinez Orozco J. C., RojasBriseo J. G., Mora Ramos M. E., Duque C. A., UNGAN F., Restrepo R. L.
The International Conference on Terahertz Emission, Metamaterials and Nanophotonics, Cartagena, Colombia, 3 - 10 April 2016
- XXI. **Propiedades opticas no lineales en pozos cuanticos semiconductores Efectos de laser intenso**
Restrepo R., 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
- XXII. **Efectos de laser intenso sobre pozos cuanticos asimetricos de GaAsAl GaAl**
Restrepo R., KASAPOĞLU 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., KASAPOĞLU 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., ŞAKIROĞLU S., KASAPOĞLU 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**
GÜNEŞ M., YEŞİLGÜL Ü., UNGAN F., KASAPOĞLU E., SARI H., SÖKMEN İ.
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
OPTIK, 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: 206
Citation (WoS): 1422
Citation (Scopus): 2069
H-Index (WoS): 22
H-Index (Scopus): 24