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International Researcher IDs

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Education Information

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

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

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

Foreign Languages

English, C1 Advanced

Dissertations

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

Postgraduate, Simetrik kataklı çift kuantum kuyusunun potansiyel profilleri ve altbodyapısı, 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

Katıhal Fiziği, Undergraduate, 2014 - 2015

Genel Fizik II, Undergraduate, 2013 - 2014

Genel Fizik II, Undergraduate, 2013 - 2014

Katıhal Fiziği, Undergraduate, 2014 - 2015

Katıhal 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 tasarım, Postgraduate, Ç.KOÇ(Student), 2019

Ungan F., Elektromanyetik Alan Altındaki Ters Parabolik Bir Kuantum Kuyusunun Optik Özellikleri, Postgraduate, A.TUNCER(Student), 2019

Ungan F., YARIM V-ŞEKİLLİ KUANTUM KUYUSUNUNOPTİKSEL ÖZELLİKLERİ, Postgraduate, S.Alim(Student), 2019

Ungan F., GÖRÜNTÜ KALİTESİNİN ARTTIRILMASINDA OPTİK YÜZEYLERİN ETKİSİNİN İNCELENMESİ, Postgraduate, L.Açıkgoz(Student), 2019

Ungan F., Asimetrik Çift Eğimli Kuantum Kuyusunun Optiksel Özellikleri, Postgraduate, H.Seda(Student), 2018

UNGAN F., Safsızlık düzeyleri arasındaki kızılıotesi geçişler üzerine elektrik alan etkisi, Postgraduate, Y.EMRE(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **Influence of hydrostatic pressure and temperature on the optical responses of asymmetric triple quantum wells**
Durmuslar A. S., Dakhlaoui H., Al E. B., Ungan F.
European Physical Journal Plus, vol.139, no.1, 2024 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)

- XI. **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)

- XII. **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)

- XIII. **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, vol.661, 2023 (SCI-Expanded)

- XIV. **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)

- XV. **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)

- XVI. **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)

- XVII. **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)

- XVIII. **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)

- XIX. **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)

- XX. **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)

- XXI. **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)

- XXII. **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)

- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **Experimental and theoretical insights on the structural and optical properties of GeO_x 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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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., Ugan F.

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.144, 2022 (SCI-Expanded)

- XXXVII. **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., Ugan F.

INDIAN JOURNAL OF PHYSICS, vol.96, no.12, pp.3485-3492, 2022 (SCI-Expanded)

- XXXVIII. **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)

- XXXIX. **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)

- XL. **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)

- XLI. **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., Ugan F.

EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.9, 2022 (SCI-Expanded)

- XLII. **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., Ugan F., Ali N., Rusli N., Aljunid S. A., Endut R., Asjad M.

NANOMATERIALS, vol.12, no.16, pp.2741, 2022 (SCI-Expanded)

- XLIII. **Interband transitions and exciton binding energy in a Razavy quantum well: effects of external fields and Razavy potential parameters**

SAYRAÇ M., Peter A. J., Ugan F.

EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.7, 2022 (SCI-Expanded)

- XLIV. **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)

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

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

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

- XLVI. **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)

- XLVII. **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., Ugan F.

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

- XLVIII. **Nonlinear optical properties in $\text{Al}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ 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)
- XLIX. 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)
- L. 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)
- LI. 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, vol.499, 2021 (SCI-Expanded)
- LII. 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)
- LIII. 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)
- LIV. 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)
- LV. 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)
- LVI. Photoluminescence characteristic of as-grown and thermally annealed n-and p-type modulation-doped $\text{Ga}(0.68)\text{In}(0.32)\text{N}(x)\text{AS}(1-x)/\text{GaAs}$ quantum well structures**
Donmez O., Sarcan F., Erol A., UNGAN F., SARİ H.
THIN SOLID FILMS, vol.732, 2021 (SCI-Expanded)
- LVII. 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)
- LVIII. 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)
- LIX. 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)
- LX. 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)
- LXI. 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)
- LXII. 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)
- LXIII. 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)
- LXIV. 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)
- LXV. 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)
- LXVI. 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)
- LXVII. Control of electronic and optical properties of a laser dressed double quantum dot molecule by lateral electric field**
 Barseghyan M. G., Mughnetsyan V. N., Baghramyan H. M., Ungan F., Perez L. M., Laroze D.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.126, 2021 (SCI-Expanded)
- LXVIII. 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)
- LXIX. 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)
- LXX. 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)
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