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Education Information

1995 - 1999	Doctorate, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, Turkey
1992 - 1994	Postgraduate, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, Turkey
1984 - 1989	Undergraduate, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, Turkey

Dissertations

1999	DÜŞÜK BOYUTLU YARIİLETKEN HETEROYAPILARDA ELEKTRONİK VE OPTİK ÖZELLİKLERİN ALAN ALTINDAKİ DEĞİŞİMİ, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, Doctorate
1994	Anharmonik Titreşici, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, Postgraduate

Research Areas

Condensed Matter 1: Structural, Mechanical and Thermal Properties, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Natural Sciences

Academic Titles / Tasks

2009 - Continues	Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü
2004 - 2009	Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü
1999 - 2004	Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü

Academic and Administrative Experience

2013 - 2022	Head of Department, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü
2007 - 2013	Head of Department, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü
2008 - 2010	Head of Department, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü
2004 - 2008	Director of Vocational School, Sivas Cumhuriyet Üniversitesi, Gürün Meslek Yüksekokulu

Advising Theses

2020	Kasapoğlu E., Doctorate, E.BAHADIR(Student), Manyetik alan altında küresel kuantum noktalarının elektronik ve optik özellikleri
2013	KASAPOĞLU E., Postgraduate, F.ARAYAN(Student), Manyetik alan altında basamaklı asimetrik kuantum kuyusunda safsızlık düzeyleri
2012	KASAPOĞLU E., Postgraduate, Y.ÖZDEMİR(Student), Manyetik alan altında basamaklı asimetrik kuantum kuyusunda elektronik yapı
2010	Kasapoğlu E., Doctorate, F.ÜNGAN(Student), Binding energies of donor impurity atoms in GaInNAs / GaAs quantum wells under intense laser field
2009	KASAPOĞLU E., Postgraduate, S.KILIN(Student), Eğik elektrik alan altında GaAs/Ga _{1-x} Al _x As kuantum telindeki donor safsızlık atomlarının bağlanma enerjileri
2009	KASAPOĞLU E., Postgraduate, H.CANPOLAT(Student), Manyetik alan altında çift kuantum kuyusundaki donor safsızlık atomları üzerinde hidrostatik basınç ve sıcaklık etkileri
2007	KASAPOĞLU E., Postgraduate, Y.ADIBELLİ(Student), Üçlü kuantum kuyularındaki hidrojenik sistemlerin elektronik ve optik özelliklerinin dış alanlar altındaki değişimi

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Simultaneous effects of the position dependent mass and magnetic field on quantum well with the improved Tietz potential**
KASAPOĞLU E., YÜCEL M. B., Duque C. A., Mora-Ramos M. E.
Physica B: Condensed Matter, vol.679, 2024 (SCI-Expanded)
- II. **Electronic and optical properties of the exponential and hyperbolic Rosen–Morse types quantum wells under applied magnetic field**
Kasapoğlu E., Yücel M. B., Duque C. A.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.138, pp.1026-1034, 2023 (SCI-Expanded)
- III. **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., ÜNGAN F., Martínez-Orozco J.
Physica E: Low-Dimensional Systems and Nanostructures, vol.154, 2023 (SCI-Expanded)
- IV. **The effects of the variable mass on the electronic and nonlinear optical properties of octic anharmonic oscillators**
ŞAKİROĞLU S., YÜCEL M. B., KASAPOĞLU E.
European Physical Journal Plus, vol.138, no.10, 2023 (SCI-Expanded)
- V. **Position-dependent-mass and laser field impact on the optical characteristics of Manning-like double quantum well**
Dakhlaoui H., Belhadj W., KASAPOĞLU E., ÜNGAN F.
Physica E: Low-Dimensional Systems and Nanostructures, vol.151, 2023 (SCI-Expanded)
- VI. **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., ÜNGAN F., Martínez-Orozco J.
Physica E: Low-Dimensional Systems and Nanostructures, vol.148, 2023 (SCI-Expanded)
- VII. **Parabolic–Gaussian Double Quantum Wells Under a Nonresonant Intense Laser Field**
Kasapoğlu E., Yücel M. B., Duque C. A.
NANOMATERIALS, vol.13, pp.1360-1374, 2023 (SCI-Expanded)
- VIII. **Spin–Orbit and Zeeman Effects on the Electronic Properties of Single Quantum Rings: Applied Magnetic Field and Topological Defects**
González J. C. L., -Negrette R. G. T., Morales A. L., Vinasco J. A., Yücel M. B., Sari H., Kasapoğlu E., Şakiroğlu S., Mora-Ramos M. E., Restrepo R. L., et al.
NANOMATERIALS, vol.13, pp.1461-1479, 2023 (SCI-Expanded)
- IX. **Harmonic-Gaussian Symmetric and Asymmetric Double Quantum Wells: Magnetic Field Effects**
KASAPOĞLU E., YÜCEL M. B., Duque C. A.

Nanomaterials, vol.13, no.5, 2023 (SCI-Expanded)

- X. **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)
- XI. **Diamagnetic susceptibility of an artificial hydrogen molecule ion D²⁺ confined to quantum dots: effects of anisotropy**
SARİ H., ŞAKİROĞLU S., KASAPOĞLU E., Duque C.
Philosophical Magazine, vol.103, no.13, pp.1293-1309, 2023 (SCI-Expanded)
- XII. **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)
- XIII. **Optical Properties of Cylindrical Quantum Dots with Hyperbolic-Type Axial Potential under Applied Electric Field**
KASAPOĞLU E., YÜCEL M. B., ŞAKİROĞLU S., SARİ H., Duque C. A.
NANOMATERIALS, vol.12, no.19, 2022 (SCI-Expanded)
- XIV. **Theoretical Study of the Exciton Binding Energy and Exciton Absorption in Different Hyperbolic-Type Quantum Wells under Applied Electric, Magnetic, and Intense Laser Fields**
YÜCEL M. B., SARİ H., Duque C. M., Duque C. A., KASAPOĞLU E.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.23, no.19, 2022 (SCI-Expanded)
- XV. **Photoionization cross section of a D-2(+) complex in quantum dots: the role of donor atoms configuration**
Al E. B., Sari H., Kasapoglu E., Sakiroglu S., Sökmen I.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.8, 2022 (SCI-Expanded)
- XVI. **Influence of external fields on the exciton binding energy and interband absorption in a double inverse parabolic quantum well**
Yücel M. B., Şakiroğlu S., Sari H., Duque C. A., Kasapoğlu E.
PHYSICA E: LOW-DIMENSIONAL SYSTEMS AND NANOSTRUCTURES, vol.144, pp.115433-115440, 2022 (SCI-Expanded)
- XVII. **Shallow-donor impurity effects on the far infrared electron–electron optical absorption coefficient in single and core/shell spherical quantum dots with Konwent-like confinement potential**
Al E. B., Kasapoglu E., Sari H., Sökmen I., Duque C. A.
Optical and Quantum Electronics, vol.54, no.6, 2022 (SCI-Expanded)
- XVIII. **Effects of Intense Laser Field on Electronic and Optical Properties of Harmonic and Variable Degree Anharmonic Oscillators**
YÜCEL M. B., KASAPOĞLU E., Duque C. A.
Nanomaterials, vol.12, no.10, 2022 (SCI-Expanded)
- XIX. **Electronic Transport Properties in GaAs/AlGaAs and InSe/InP Finite Superlattices under the Effect of a Non-Resonant Intense Laser Field and Considering Geometric Modifications**
Gil-Corrales J. A., Morales A. L., YÜCEL M. B., KASAPOĞLU E., Duque C. A.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.23, no.9, 2022 (SCI-Expanded)
- XX. **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)
- XXI. **Theoretical study of electronic and optical properties in doped quantum structures with Razavy confining potential: effects of external fields**
Dakhlaoui H., Gil-Corrales J. A., Morales A. L., Kasapoglu E., Radu A., Restrepo R. L., Tulupenko V., Vinasco J. A., Mora-Ramos M. E., Duque C. A.
JOURNAL OF COMPUTATIONAL ELECTRONICS, vol.21, no.2, pp.378-395, 2022 (SCI-Expanded)

- XXII. **Electronic and optical properties of a D-2(+) complex in two-dimensional quantum dots with Gaussian confinement potential**
Sari H., Al E. B., Kasapoglu E., Sakiroglu S., Sökmen I., Toro-Escobar M., Duque C. A.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.4, 2022 (SCI-Expanded)
- XXIII. **Effect of position-dependent effective mass on donor impurity- and exciton-related electronic and optical properties of 2D Gaussian quantum dots**
Sari H., Kasapoglu E., Sakiroglu S., Sokmen I., Duque C. A.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.3, 2022 (SCI-Expanded)
- XXIV. **First Study on the Electronic and Donor Atom Properties of the Ultra-Thin Nanoflakes Quantum Dots**
Belamkadem L., Mommadi O., Boussetta R., Chnafi M., Vinasco J. A., Laroze D., Perez L. M., El Moussaouy A., Meziani Y. M., KASAPOĞLU E., et al.
NANOMATERIALS, vol.12, no.6, 2022 (SCI-Expanded)
- XXV. **The effects of external fields on double GaAs/AlGaAs quantum well with Manning potential**
Kasapoglu E., Duque C. A.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.137, 2022 (SCI-Expanded)
- XXVI. **Influence of position dependent effective mass on impurity binding energy and absorption in quantum wells with the Konwent potential**
Al E. B., Kasapoğlu E., Şakiroğlu S., Sari H., Sökmen İ.
Materials Science in Semiconductor Processing, vol.135, 2021 (SCI-Expanded)
- XXVII. **Shallow Donor Impurity States with Excitonic Contribution in GaAs/AlGaAs and CdTe/CdSe Truncated Conical Quantum Dots under Applied Magnetic Field**
Pulgar-Velasquez L., Sierra-Ortega J., Vinasco J. A., Laroze D., Radu A., KASAPOĞLU E., Restrepo R. L., Gil-Corrales J. A., Morales A. L., Duque C. A.
NANOMATERIALS, vol.11, no.11, 2021 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **Position dependent effective mass effect on the quantum wells with three-parameter modified Manning potential**
Kasapoglu E., Duque C. A.
OPTIK, vol.243, 2021 (SCI-Expanded)
- XXX. **The anisotropy effects on the shallow-donor impurity states and optical transitions in quantum dots**
Aydin F., Sari H., Kasapoglu E., Sakiroglu S., Sokmen I.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.136, no.8, 2021 (SCI-Expanded)
- XXXI. **Optical properties of spherical quantum dot in the presence of donor impurity under the magnetic field**
Al E. B., Kasapoğlu E., Sari H., Sökmen I.
Physica B: Condensed Matter, vol.613, 2021 (SCI-Expanded)
- XXXII. **Effects of intense laser field and position dependent effective mass in Razavy quantum wells and quantum dots**
Kasapoglu E., Sari H., Sokmen I., Vinasco J. A., Laroze D., Duque C. A.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.126, 2021 (SCI-Expanded)
- XXXIII. **Zeeman splitting, Zeeman transitions and optical absorption of an electron confined in spherical quantum dots under the magnetic field**
Al E. B., Kasapoğlu E., Sari H., Sökmen I.
PHILOSOPHICAL MAGAZINE, vol.101, no.1, pp.117-128, 2021 (SCI-Expanded)
- XXXIV. **Binding energies and optical absorption of donor impurities in spherical quantum dot under applied magnetic field**
Al E. B., Kasapoğlu E., Sakiroglu S., Sari H., Sökmen I., Duque C.
Physica E: Low-Dimensional Systems and Nanostructures, vol.119, 2020 (SCI-Expanded)

- XXXV. **Impurity-related optical response in a 2D and 3D quantum dot with Gaussian confinement under intense laser field**
SARİ H., KASAPOĞLU E., Sakiroglu S., Sokmen I., Duque C. A.
PHILOSOPHICAL MAGAZINE, vol.100, no.5, pp.619-641, 2020 (SCI-Expanded)
- XXXVI. **Impurity-modulated optical response of a disc-shaped quantum dot subjected to laser radiation**
Gul Kilic D., Sakiroglu S., KASAPOĞLU E., SARİ H., Sokmen I.
Photonics and Nanostructures - Fundamentals and Applications, vol.38, 2020 (SCI-Expanded)
- XXXVII. **Anisotropy dependence of the optical response in an impurity doped quantum dot under intense laser field**
Aydin F., SARİ H., KASAPOĞLU E., Sakiroglu S., Sokmen I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.114, 2019 (SCI-Expanded)
- XXXVIII. **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)
- XXXIX. **Effect of Intense Laser Field in Gaussian Quantum Well With Position-Dependent Effective Mass**
SARİ H., KASAPOĞLU E., Sakiroglu S., Sokmen I., Duque C. A.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.256, no.8, 2019 (SCI-Expanded)
- XL. **Effect of the High-Frequency Laser Radiation on the Nonlinear Optical Properties of n-Type Double delta-Doped GaAs Quantum Wells**
UNGAN F., SARİ H., KASAPOĞLU E., YEŞİLGÜL Ü., ŞAKIROĞLU S., SÖKMEN İ.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.19, no.7, pp.4167-4171, 2019 (SCI-Expanded)
- XLI. **Intense laser-induced electronic and optical properties in double finite oscillator potential**
Sari H., Ugan F., Kasapoglu E., Sakiroglu S., Sokmen I.
PHILOSOPHICAL MAGAZINE, vol.99, no.19, pp.2444-2456, 2019 (SCI-Expanded)
- XLII. **Electron-related optical responses in triple delta-doped quantum wells**
Ugan F., Mora-Ramos M. E., Kasapoglu E., Sari H., Sokmen I.
PHILOSOPHICAL MAGAZINE, vol.99, no.5, pp.644-658, 2019 (SCI-Expanded)
- XLIII. **Electronic states in GaAs-(Al, Ga) As eccentric quantum rings under nonresonant intense laser and magnetic fields**
Vinasco J. A., Radu A., Niculescu E., Mora-Ramos E., Feddi E., Tulupenko V., Restrepo R. L., Kasapoglu E., Morales A. L., Duque C. A.
SCIENTIFIC REPORTS, vol.9, 2019 (SCI-Expanded)
- XLIV. **Binding energy and optical absorption of donor impurity states in "12-6" tuned GaAs/GaAlAs double quantum well under the external fields**
Kasapoglu E., Sakiroglu S., Sari H., Sokmen I., Duque C. A.
PHYSICA B-CONDENSED MATTER, vol.554, pp.72-78, 2019 (SCI-Expanded)
- XLV. **Position-dependent mass effects on the optical responses of the quantum well with Tietz-Hua potential**
Sari H., Kasapoglu E., Sakiroglu S., Sokmen I.
OPTIK, vol.178, pp.1280-1284, 2019 (SCI-Expanded)
- XLVI. **Nonlinear optical properties of triple delta-doped quantum wells: The impact of the applied external fields**
Ugan F., Mora-Ramos M. E., Kasapoglu E., Sari H., Sokmen I.
OPTIK, vol.180, pp.387-393, 2019 (SCI-Expanded)
- XLVII. **Morse quantum well modulated by nonresonant intense laser field: Binding energy and optical absorption related to shallow donor impurities**
Kasapoglu E., Sakiroglu S., Sari H., Sokmen I., Duque C. A.
OPTIK, vol.181, pp.432-439, 2019 (SCI-Expanded)
- XLVIII. **Linear and nonlinear optical properties in the terahertz regime for multiple-step quantum wells under intense laser field: Electric and magnetic field effects**
Restrepo R. L., Gonzalez-Pereira J. P., Kasapoglu E., Morales A. L., Duque C. A.

OPTICAL MATERIALS, vol.86, pp.590-599, 2018 (SCI-Expanded)

- XLIX. 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)
- L. 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)
- LI. Effects of Geometry on the Electronic Properties of Semiconductor Elliptical Quantum Rings**
Vinasco J. A., Radu A., Kasapoglu E., Restrepo R. L., Morales A. L., Feddi E., Mora-Ramos M. E., Duque C. A.
SCIENTIFIC REPORTS, vol.8, 2018 (SCI-Expanded)
- LII. 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)
- LIII. Optical Absorption and Electroabsorption Related to Electronic and Single Dopant Transitions in Holey Elliptical GaAs Quantum Dots**
Alejandro Vinasco J., Alejandro Londono M., Leon Restrepo R., Eduardo Mora-Ramos M., Feddi E. M., Radu A., KASAPOĞLU E., Luis Morales A., Alberto Duque C.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.255, no.4, 2018 (SCI-Expanded)
- LIV. Electric and magnetic field modulated energy dispersion, conductivity and optical response in double quantum wire with spin-orbit interactions**
Karaaslan Y., Gisi B., Sakiroglu S., Kasapoglu E., Sari H., Sokmen I.
PHYSICS LETTERS A, vol.382, no.7, pp.507-515, 2018 (SCI-Expanded)
- LV. 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)
- LVI. 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)
- LVII. 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)
- LVIII. Nonlinear optical properties of asymmetric n-type double delta-doped GaAs quantum well under intense laser field**
SARİ H., KASAPOĞLU E., YEŞİLGÜL Ü., ŞAKIROĞLU S., UNGAN F., SÖKMEN İ.
EUROPEAN PHYSICAL JOURNAL B, vol.90, no.9, 2017 (SCI-Expanded)
- LIX. 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)
- LX. Donor Impurity-Related Optical Absorption in GaAs Elliptic-Shaped Quantum Dots**
Londono M. A., Restrepo R. L., Ojeda J. H., Huynh Vinh Phuc H. V. P., Mora-Ramos M. E., Kasapoglu E., Morales A. L., Duque C. A.
JOURNAL OF NANOMATERIALS, 2017 (SCI-Expanded)
- LXI. 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)

- LXII. **Optical coefficients in a semiconductor quantum ring: Electric field and donor impurity effects**
Duque C. M., Acosta R. E., Morales A. L., Mora-Ramos M. E., Restrepo R. L., Ojeda J. H., Kasapoglu E., Duque C. A.
OPTICAL MATERIALS, vol.60, pp.148-158, 2016 (SCI-Expanded)
- LXIII. **The effects of the electric and intense laser field on the binding energies of donor impurity states (1s and 2p(+/-)) and optical absorption between the related states in an asymmetric parabolic quantum well**
Kasapoglu E., Sakiroglu S., Sokmen I., Restrepo R. L., Mora-Ramos M. E., Duque C. A.
OPTICAL MATERIALS, vol.60, pp.318-323, 2016 (SCI-Expanded)
- LXIV. **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)
- LXV. **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)
- LXVI. **Optical properties of double quantum wires under the combined effect of spin-orbit interaction and in-plane magnetic field**
Sakiroglu S., Gisi B., Karaaslan Y., Kasapoglu E., Sari H., Sokmen I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.81, pp.59-65, 2016 (SCI-Expanded)
- LXVII. **Rashba spin-orbit coupling effects on the optical properties of double quantum wire under magnetic field**
Karaaslan Y., Gisi B., Sakiroglu S., Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.93, pp.32-39, 2016 (SCI-Expanded)
- LXVIII. **Electron and donor-impurity-related Raman scattering and Raman gain in triangular quantum dots under an applied electric field**
Tiutiunnyk A., Akimov V., Tulupenko V., Mora-Ramos M. E., KASAPOĞLU E., Morales A. L., Alberto Duque C.
EUROPEAN PHYSICAL JOURNAL B, vol.89, no.4, 2016 (SCI-Expanded)
- LXIX. **Effects of an in-plane magnetic field on the energy dispersion, spin texturing and conductance of double quantum wires**
Gisi B., Karaaslan Y., Sakiroglu S., Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.91, pp.391-400, 2016 (SCI-Expanded)
- LXX. **Electronic structure and optical properties of triangular GaAs/AlGaAs quantum dots: Exciton and impurity states**
Tiutiunnyk 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)
- LXXI. **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)
- LXXII. **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)
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- I. **OPTICAL PROPERTIES OF FINITE SPHERICAL QUANTUM DOT UNDER MAGNETIC FIELD**
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- III. **Generacion de segundo y tercer armonico en pozos cuanticos con potencial de morse**
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- IV. **NONLINEAR OPTICAL RECTIFICATION THE SECOND AND THIRD HARMONIC GENERATION IN AN ASYMMETRIC DOUBLE QUANTUM WELL UNDER THE INTENSE LASER FIELD**
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- V. **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**
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- VII. **Investigation of the band structure of GaInNAs/GaAs single quantum well with 10-band k.p model**
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VIII. Finite element analysis of conduction band structure and intersubband transitions of square quantum well under electric field and stress

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Supported Projects

2017 - 2020	Manyetik Alan Altında Küresel Kuantum Noktalarının Elektronik Ve Optik Özellikleri, Project Supported by Higher Education Institutions
2018 - 2019	Elektrik alan altında tek, çift ve üçlü delta katkılı GaAs yapıların altbandları arasındaki ikinci derece lineer olmayan geçişler F-571, Project Supported by Higher Education Institutions
2017 - 2018	Lennard Jones Potansiyelli Çift Kuantum Kuyusundaki Safsızlık Atomlarının Bağlanma Enerjileri ve Optik Geçişler F-557, Project Supported by Higher Education Institutions
2017 - 2018	Binding Energies and Optical Transitions of Impurity Atoms in the Double Quantum Well with Lennard Jones Potential , Project Supported by Higher Education Institutions
2016 - 2018	Cumhuriyet Üniversitesi Ar-Ge Strateji Belgesi (Optik, Elektro Optik ve Fotonik Teknolojileri), TUBITAK Project
2017 - 2017	Tietz-Hua kuantum kuyusunun lineer ve lineer olmayan optik özellikleri üzerine dış alanların etkisi F-516, Project Supported by Higher Education Institutions
2017 - 2017	The effect of external fields on linear and nonlinear optical properties of Tietz-Hua quantum well, Project Supported by Higher Education Institutions
2017 - 2017	Çift delta katkılı GaAs yapıların altbandları arasındaki ikinci derece lineer olmayan geçişler F-519, Project Supported by Higher Education Institutions
2016 - 2016	The effect of external fields on the optical properties of the asymmetric parabolic quantum well., Project Supported by Higher Education Institutions
2016 - 2016	Tek çift ve üçlü delta katkılı GaAs yapıların altbandları arasındaki lineer olmayan geçişler F 473, Project Supported by Higher Education Institutions
2016 - 2016	Asimetrik parabolik kuantum kuyusunun optik özellikleri üzerine dış alanların etkisi F-470, Project Supported by Higher Education Institutions
2014 - 2015	Basamaklı asimetrik kuantum kuyusunun lineer ve lineer olmayan optik özellikleri üzerine elektrik ve manyetik alanların etkisi, Project Supported by Higher Education Institutions
2012 - 2013	Yoğun Lazer Alanı Altında GaInNAs GaAs Kuantum Kuyularındaki Donor Safsızlık Atomlarının Bağlanma Enerjileri, Project Supported by Higher Education Institutions

Metrics

Publication: 208

Citation (WoS): 3300

Citation (Scopus): 3348

H-Index (WoS): 33

H-Index (Scopus): 33

Awards

September 2014	Lütfi ABAY Kültür Ve Eğitim Vakfı (LAKEV) Bilim Ödülü , Lütfi Abay Kültür Ve Eğitim Vakfı (Lakev)
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