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Education Information

Doctorate, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, Turkey 2014 - 2020

Post Graduate, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, Turkey 2011 - 2014

Under Graduate, Firat University, Faculty Of Science, Department Of Physics, Turkey 2005 - 2009

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Electronic and Optical Properties of the Spherical Quantum Dots Under the Magnetic Field, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2020

Post Graduate, INFRARED TRANSITIONS BETWEEN HYDROGENIC STATES IN GaInNAs/GaAs QUANTUM WELLS, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2014

Research Areas

Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Magnetic Properties and Materials, Optical Properties, Spectroscopy of Matter

Academic Titles / Tasks

Research Assistant PhD, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2020 - Continues

Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2011 - 2020

Courses

Genel Fizik Laboratuvarı I, Under Graduate, 2020 - 2021

Genel Fizik I, Under Graduate, 2020 - 2021

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Binding energies and optical absorption of donor impurities in spherical quantum dot under applied magnetic field**
AL E. B. , KASAPOĞLU E., Sakiroglu S., SARİ H., Sökmen I., Duque C.
Physica E: Low-Dimensional Systems and Nanostructures, vol.119, 2020 (Journal Indexed in SCI)
- II. **Zeeman splitting, Zeeman transitions and optical absorption of an electron confined in spherical quantum dots under the magnetic field**
AL E. B. , KASAPOĞLU E., SARİ H., Sökmen I.
Philosophical Magazine, 2020 (Journal Indexed in SCI Expanded)
- III. **Binding energy of donor impurity states and optical absorption in the Tietz-Hua quantum well under an applied electric field**
AL E. B. , Kasapoglu E., Sakiroglu S., Duque C. A. , Sokmen I.
JOURNAL OF MOLECULAR STRUCTURE, vol.1157, pp.288-291, 2018 (Journal Indexed in SCI)
- IV. **Effects of magnetic field, hydrostatic pressure and temperature on the nonlinear optical properties in symmetric double semi-V-shaped quantum well**
Yesilgul U., Ugan F., Al E. B. , Kasapoglu E., Sari H., Sokmen I.
OPTICAL AND QUANTUM ELECTRONICS, vol.48, 2016 (Journal Indexed in SCI)
- V. **Infrared transitions between hydrogenic states in GaInNAs/GaAs quantum wells**
AL E. B. , Ugan F., Yesilgul U., Kasapoglu E., Sari H., Sokmen I.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.30, 2016 (Journal Indexed in SCI)
- VI. **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. , Ugan F., Kasapoglu E.
OPTICAL MATERIALS, vol.58, pp.107-112, 2016 (Journal Indexed in SCI)
- VII. **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. , Ugan F., Yesilgul U., Kasapoglu E., Sari H., Sokmen I.
OPTICAL MATERIALS, vol.47, pp.1-6, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Nonlinear optical rectification the second and third harmonic generation in asymmetric double quantum well under the intense laser field**
YEŞİLGÜL Ü., AL E. B. , UGAN F., KASAPOĞLU E.
Cumhuriyet Science Journal, vol.37, 2016 (Refereed Journals of Other Institutions)
- II. **SAFSIZLIK DÜZEYLERİ ARASINDAKİ KIZILÖTESİ GEÇİŞLER ÜZERİNE ELEKTRİK ALAN ETKİSİ**
AL E. B. , YILDIZ Y. E. , UGAN F.
Cumhuriyet Science Journal, vol.36, pp.153-173, 2015 (Other Refereed National Journals)

Books & Book Chapters

- I. **Mekanik Laboratuvarı**
AL E. B. , KASAPOĞLU E.
Cumhuriyet Üniversitesi, Sivas, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **OPTICAL PROPERTIES OF FINITE SPHERICAL QUANTUM DOT UNDER MAGNETIC FIELD**
AL E. B. , KASAPOĞLU E., SARİ H.

VIII. UMTEB INTERNATIONAL CONGRESS ON VOCATIONAL TECHNICAL SCIENCES, Sivas, Turkey, 11 - 13 October 2019, pp.223-233

II. **OPTICAL PROPERTIES OF INFINITE SPHERICAL QUANTUM DOT UNDER MAGNETIC FIELD**

AL E. B. , KASAPOĞLU E., SARI H.

VIII. UMTEB INTERNATIONAL CONGRESS ON VOCATIONAL TECHNICAL SCIENCES, Sivas, Turkey, 11 - 13 October 2019, pp.234-244

III. **Binding Energy Of Donor Impurity States And Optical Absorption In Tietz-Hua Quantum Well Under The Electric Field**

Kasapoğlu E., Al E. B.

4th International conference on materials science and nanotechnology for next generation (MSNG2017), Sarajevo, Bosnia And Herzegovina, 28 - 30 June 2017, pp.288-291

IV. **NONLINEAR OPTICAL RECTIFICATION THE SECOND AND THIRD HARMONIC GENERATION IN AN ASYMMETRIC DOUBLE QUANTUM WELL UNDER THE INTENSE LASER FIELD**

AL E. B. , YEŞİLGÜL Ü., UNGAN F., KASAPOĞLU E.

16th International Balkan Workshop on Applied Physics and Materials Science, 7 - 09 July 2016

V. **The effect of electric field on the nonlinear optical properties in asymmetric parabolic quantum well under intense laser field**

YEŞİLGÜL Ü., UNGAN F., AL E. B. , KASAPOĞLU E.

The 16 th International Balkan Workshop on Applied Physics, Constanta, Romania, 7 - 09 July 2016

Supported Projects

Kasapoğlu E., Al E. B. , Project Supported by Higher Education Institutions, Manyetik Alan Altında Küresel Kuantum Noktalarının Elektronik Ve Optik Özellikleri, 2017 - 2020

Kasapoğlu E., Öztürk E., Al E. B. , Project Supported by Higher Education Institutions, Binding Energies and Optical Transitions of Impurity Atoms in the Double Quantum Well with Lennard Jones Potential , 2017 - 2018

Kasapoğlu E., Öztürk E., Al E. B. , Project Supported by Higher Education Institutions, The effect of external fields on linear and nonlinear optical properties of Tietz-Hua quantum well, 2017 - 2017

Kasapoğlu E., Öztürk E., Al E. B. , Project Supported by Higher Education Institutions, The effect of external fields on the optical properties of the asymmetric parabolic quantum well, 2016 - 2016

Ungan F., Al E. B. , Project Supported by Higher Education Institutions, Yoğun lazer alanı altındaki asimmetrik çift kare kuantum kuyusunun ikinci ve üçüncü dereceden doğrusal olmayan optiksel özellikleri, 2016 - 2016

Scientific Refereeing

PHYSICA SCRIPTA, SCI Journal, November 2020

Invited Congress and Symposium Activities

9th International Workshop on Nuclear Structure Properties, Working Group, Sivas, Turkey, 2016

Citations

Total Citations (WOS):74

h-index (WOS):4