

Prof. HÜSEYİN SARI

Personal Information

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Education Information

Doctorate, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1989 - 1993

Post Graduate, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1986 - 1988

Under Graduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1979 - 1985

Dissertations

Doctorate, GaAs-Ga_{1-x}Al_xAs kuantum çukurlarında yük taşıyıcıları ve eksitonların alan altındaki davranışları, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, 2004

Post Graduate, Biyolojik moleküllerde solitanlar, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 1988

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2010 - Continues

Professional Experience

Head of Department, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2012 - 2016

Dean, Sivas Cumhuriyet Üniversitesi, Eğitim Fakültesi, 2012 - 2016

Head of Department, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2010 - 2013

Head of Department, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2004 - 2012

Director of Vocational School, Sivas Cumhuriyet Üniversitesi, Suşehri Timur Karabal Meslek Yüksekokulu, 1997 - 2004

Courses

Uzmanlık Alan Dersi, Doctorate, 2019 - 2020

Genel Fizik - II, Under Graduate, 2018 - 2019

Genel Fizik - I, Under Graduate, 2019 - 2020

Fizik - I, Under Graduate, 2019 - 2020

Fizik - II, Under Graduate, 2018 - 2019

Genel Fizik - I, Under Graduate, 2019 - 2020
Genel Fizik - II, Under Graduate, 2017 - 2018
Tez Çalışması, Doctorate, 2018 - 2019
Seminer Dersi, Post Graduate, 2014 - 2015
İleri Kuantum Mekanikinde Özel Konular I, Doctorate, 2015 - 2016
Kuantum Fizigi II, Under Graduate, 2014 - 2015
Bilim Tarihi, Under Graduate, 2015 - 2016
Genel Fizik Laboratuvarı - II, Under Graduate, 2014 - 2015
Bilim Tarihi, Under Graduate, 2015 - 2016
Seminer Dersi, Doctorate, 2015 - 2016
Uzmanlık Alan Dersi, Post Graduate, 2014 - 2015
Kuantum Fizigi II, Under Graduate, 2014 - 2015
Genel Fizik II, Under Graduate, 2014 - 2015
Genel Fizik Laboratuvarı - I, Under Graduate, 2014 - 2015
Kuantum Fiziği I, Under Graduate, 2014 - 2015
Genel Fizik Laboratuvarı - I, Under Graduate, 2014 - 2015
Kuantum Fiziği I, Under Graduate, 2014 - 2015
Genel Fizik I, Under Graduate, 2014 - 2015
Temel Bilgi Teknolojileri Kullanımı, Under Graduate, 2012 - 2013
Klasik Mekanik, Under Graduate, 2012 - 2013
Fizik Lab.Iv (Elek.Man.Dal.Ve Optik), Under Graduate, 2012 - 2013
Temel Bilgisayar Teknolojileri Kullanımı, Under Graduate, 2012 - 2013
İstatistik Fizik, Under Graduate, 2012 - 2013
Temel Bilgisayar Bilimleri, Under Graduate, 2012 - 2013
Fizik Lab.Iv (Elek.Man.Dal.Ve Optik), Under Graduate, 2012 - 2013
İstatistik Fizik, Under Graduate, 2012 - 2013
Fizik Lab. V (Elektronik), Under Graduate, 2012 - 2013
Klasik Mekanik, Under Graduate, 2012 - 2013
Bitirme Tezi, Under Graduate, 2012 - 2013
Temel Fizik, Associate Degree, 2012 - 2013
Bitirme Tezi, Under Graduate, 2012 - 2013
Fizik Lab . Vi(Atom Ve Mol., Under Graduate, 2010 - 2011
Fizik Lab. V (Elektronik), Under Graduate, 2011 - 2012
Fizik - I, Under Graduate, 2011 - 2012
Fizik - I, Under Graduate, 2011 - 2012
Genel Fizik II, Under Graduate, 2009 - 2010
Fizik Ve Geometrik Optik - II, Associate Degree, 2009 - 2010
Genel Fizik II, Under Graduate, 2009 - 2010
Fizik Lab . Vi(Atom Ve Mol., Under Graduate, 2009 - 2010
Fizik Lab. III (Elek. Ve Man.), Under Graduate, 2009 - 2010
Fizik Lab. III (Elek. Ve Man.), Under Graduate, 2009 - 2010
Fizik III (Elek.Man.), Under Graduate, 2008 - 2009
Fizik III (Elk.Ve Mag.), Under Graduate, 2008 - 2009
Fizik III (Elk.Ve Mag.), Under Graduate, 2008 - 2009
Fizik III (Elek.Man.), Under Graduate, 2008 - 2009
Genel Fizik - III, Under Graduate, 2007 - 2008
Fizik IV, Under Graduate, 2007 - 2008
Genel Fizik Lab - III, Under Graduate, 2007 - 2008
Fizik Lab.I, Under Graduate, 2005 - 2006
Fizik Lab. II, Under Graduate, 2004 - 2005
Fizik II, Under Graduate, 2003 - 2004

Fizik II, Under Graduate, 2003 - 2004
Fizik I, Under Graduate, 2003 - 2004
Fizik I, Under Graduate, 2003 - 2004
Fizik I, Under Graduate, 2003 - 2004

Advising Theses

SARİ H., Hidrostatik basınç altında kuantum kuyusunda safsızlık düzeyleri, Post Graduate, E.ŞAHİN(Student), 2015
SARİ H., GaInNAs/GaAs kuantum kuyularında hidrojenik düzeyler arasında kızılötesi geçişler, Post Graduate, E.BAHADIR(Student), 2014
SARİ H., Çiftlenimli yarıparabolik kuantum kuyusunda hidrojenik donör düzeyleri, Post Graduate, M.KARADENİZ(Student), 2013
SARİ H., Yarı-parabolik kuantum kuyusunda safsızlık düzeyleri ve özkutuplanma, Post Graduate, F.AYDIN(Student), 2012
SARİ H., Basamaklı kuantum kuyularında simetrinin özkutuplanmaya etkisi, Post Graduate, M.ALİ(Student), 2012
SARİ H., GaIn1-xny1-y/gaas kuantum kuyusunda özkutuplanma, Post Graduate, S.AĞILLI(Student), 2012
SARİ H., GaInNAs/GaAs kuantum kuyularında ekzitonik yapının yoğun lazer alanı altındaki davranışı, Doctorate, Ü.YEŞİLGÜL(Student), 2010
SARİ H., Düşük boyutlu yarıiletkenlerde alan altında safsızlıkların diamanyetik alınganlığı, Post Graduate, E.KILIÇARSLAN(Student), 2009
SARİ H., Heteroyapılarda uzaysal perdelemenin safsızlık düzeylerine etkisi, Post Graduate, A.ZEYTUN(Student), 2009
SARİ H., Kuantum kuyularında dielektrik perdelemenin donör diamanyetik alınganlığı üzerindeki etkisi, Post Graduate, S.ÖZMEN(Student), 2009
SARİ H., Hidrostatik basınç altında düşük boyutlu yarıiletken sistemlerin elektronik ve optik özellikleri, Doctorate, M.GÜNEŞ(Student), 2009
SARİ H., Heteroyapılarda alan altında kutuplanabilirlik ve fotoiyonizasyon tesir-kesiti hesabı, Post Graduate, M.KÖKSAL(Student), 2006
SARİ H., Magneto-donor sisteminin nanoyapılardaki elektronik ve optik özelliklerinin alan altındaki davranışları, Post Graduate, Ü.YEŞİLGÜL(Student), 2004
SARİ H., Bir boyutlu sistemlerde eksitonlar, Post Graduate, M.GÜNEŞ(Student), 2002
SARİ H., Alan altında kuantum telinde eksitonik bağlanma, Post Graduate, M.BURSAL(Student), 2002

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. , KASAPÖĞLU 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. , KASAPÖĞLU E., SARİ H., Sökmen I.
Philosophical Magazine, 2020 (Journal Indexed in SCI Expanded)
- III. **Electron-related optical responses in triangular quantum dots**
Tiutiunyyk A., Tulupenko Y., Mora-Ramos M. E. , Kasapoglu E., Urgan F., Sari H., Sokmen I., Duque C. A.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.60, pp.127-132, 2014 (Journal Indexed in SCI)
- IV. **Linear and nonlinear optical properties in a double inverse parabolic quantum well under applied electric and magnetic fields**
Urgan F., Mora-Ramos M. E. , Duque C. A. , Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.66, pp.129-135, 2014 (Journal Indexed in SCI)
- V. **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, pp.198-201, 2014 (Journal Indexed in SCI)

- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **Electron-related nonlinearities in GaAs-Ga_{1-x}Al_xAs double quantum wells under the effects of intense laser field and applied electric field**
Mora-Ramos M. E. , Duque C. A. , Kasapoglu E., Sari H., Sokmen I.
JOURNAL OF LUMINESCENCE, vol.135, pp.301-311, 2013 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **Study of direct and indirect exciton states in GaAs-Ga_{1-x}Al_xAs quantum dots under the effects of intense laser field and applied electric field**
Mora-Ramos M. E. , Duque C. A. , Kasapoglu E., Sari H., Sokmen I.
EUROPEAN PHYSICAL JOURNAL B, vol.85, 2012 (Journal Indexed in SCI)
- XVI. **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, pp.1627-1631, 2012 (Journal Indexed in SCI)
- XVII. **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, pp.1584-1588, 2012 (Journal Indexed in SCI)
- XVIII. **Nonlinear optical rectification and the second and third harmonic generation in Poschl-Teller**

quantum well under the intense laser field

Sakiroglu S., Ugan F., Yesilgul U., Mora-Ramos M. E. , Duque C. A. , Kasapoglu E., Sari H., Sokmen I.
PHYSICS LETTERS A, vol.376, pp.1875-1880, 2012 (Journal Indexed in SCI)

- XIX. **Linear and nonlinear optical properties in a semiconductor quantum well under intense laser radiation: Effects of applied electromagnetic fields**
Mora-Ramos M. E. , Duque C. A. , Kasapoglu E., Sari H., Sokmen I.
JOURNAL OF LUMINESCENCE, vol.132, pp.901-913, 2012 (Journal Indexed in SCI)
- XX. **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**
Ugan F., Yesilgul U., Kasapoglu E., Sari H., Sokmen I.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.26, 2012 (Journal Indexed in SCI)
- XXI. **Effects of an intense, high-frequency laser field on the binding energy of excitons confined in a GaInNAs/GaAs quantum well**
Yesilgul U., Ugan F., Kasapoglu E., Sari H., Sokmen I.
PHYSICA B-CONDENSED MATTER, vol.407, pp.528-532, 2012 (Journal Indexed in SCI)
- XXII. **The effects of hydrostatic pressure and intense laser field on the linear and nonlinear optical properties of a square quantum well**
Ugan F., Yesilgul U., Kasapoglu E., Sari H., Sokmen I.
OPTICS COMMUNICATIONS, vol.285, pp.373-377, 2012 (Journal Indexed in SCI)
- XXIII. **Combined effects of intense laser field and applied electric field on exciton states in GaAs quantum wells: Transition from the single to double quantum well**
Duque C. A. , Mora-Ramos M. E. , Kasapoglu E., Sari H., Sokmen I.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.249, pp.118-127, 2012 (Journal Indexed in SCI)
- XXIV. **THE INTERSUBBAND TRANSITIONS AND BINDING ENERGY OF SHALLOW DONOR IMPURITIES IN DIFFERENT SHAPED QUANTUM WELLS UNDER THE MAGNETIC FIELD**
Yesilgul U., Ugan F., Kasapoglu E., Sari H., Sokmen I.
MODERN PHYSICS LETTERS B, vol.25, pp.2451-2459, 2011 (Journal Indexed in SCI)
- XXV. **The effect of the intense laser field on the intersubband transitions in Ga_{1-x}In_xNyAs_{1-y}/GaAs single quantum well**
Ugan F., Kasapoglu E., Duque C. A. , Sari H., Sokmen I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.44, pp.515-520, 2011 (Journal Indexed in SCI)
- XXVI. **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., Ugan F., Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.50, pp.400-410, 2011 (Journal Indexed in SCI)
- XXVII. **THE EFFECTS OF TEMPERATURE AND HYDROSTATIC PRESSURE ON THE DIAMAGNETIC SUSCEPTIBILITY OF A DONOR IN A QUANTUM WELL**
Yesilgul U., Ugan F., Kasapoglu E., Sari H., Sokmen I.
SURFACE REVIEW AND LETTERS, vol.18, pp.147-152, 2011 (Journal Indexed in SCI)
- XXVIII. **Photoionization cross-section and binding energy of shallow donor impurities in Ga_{1-x}In_xNyAs_{1-y}/GaAs quantum wires**
Yesilgul U., Kasapoglu E., Sari H., Sokmen I.
SOLID STATE COMMUNICATIONS, vol.151, pp.1175-1178, 2011 (Journal Indexed in SCI)
- XXIX. **Dependence of impurity binding energy on nitrogen and indium concentrations for shallow donors in a GaInNAs/GaAs quantum well under intense laser field**
Ugan F., Kasapoglu E., Sari H., Sokmen I.
EUROPEAN PHYSICAL JOURNAL B, vol.82, pp.313-318, 2011 (Journal Indexed in SCI)
- XXX. **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., Ugan F., Kasapoglu E., Sari H., Sokmen I.
CHINESE PHYSICS LETTERS, vol.28, 2011 (Journal Indexed in SCI)

- XXXI. **Intense laser field effects on the linear and nonlinear intersubband optical properties of a semi-parabolic quantum well**
Kasapoglu E., Duque C. A. , Sari H., Sokmen I.
EUROPEAN PHYSICAL JOURNAL B, vol.82, pp.13-17, 2011 (Journal Indexed in SCI)
- XXXII. **Intense laser field effect on impurity states in a semiconductor quantum well: transition from the single to double quantum well potential**
Duque C. A. , Mora-Ramos M. E. , Kasapoglu E., Sari H., Sokmen I.
EUROPEAN PHYSICAL JOURNAL B, vol.81, pp.441-449, 2011 (Journal Indexed in SCI)
- XXXIII. **The effects of the intense laser field on donor impurities in a cylindrical $GaxIn_{1-x}NyAs_{1-y}/GaAs$ quantum dot under the electric field**
Kasapoglu E., Duque C. A. , Sakiroglu S., Sari H., Sokmen I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.43, pp.1427-1432, 2011 (Journal Indexed in SCI)
- XXXIV. **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, pp.635-643, 2011 (Journal Indexed in SCI)
- XXXV. **Hydrogenic impurities in quantum dots under intense high-frequency laser field**
Yesilgul U., Sakiroglu S., Kasapoglu E., Sari H., Soekmen I.
PHYSICA B-CONDENSED MATTER, vol.406, pp.1441-1444, 2011 (Journal Indexed in SCI)
- XXXVI. **VARIATIONAL COMPUTATIONS FOR EXCITONS IN QUANTUM DOTS: A QUANTUM MONTE CARLO STUDY**
Yildiz A., Sakiroglu S., Dogan U., Akgungor K., Epik H., Sokmen I., Sari H., Ergun Y.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.25, pp.119-130, 2011 (Journal Indexed in SCI)
- XXXVII. **Intense laser effects on nonlinear optical absorption and optical rectification in single quantum wells under applied electric and magnetic field**
Duque C. A. , Kasapoglu E., Sakiroglu S., Sari H., Sokmen I.
APPLIED SURFACE SCIENCE, vol.257, pp.2313-2319, 2011 (Journal Indexed in SCI)
- XXXVIII. **The effects of temperature and hydrostatic pressure on the photoionization cross-section and binding energy of shallow donor impurities in quantum dots**
Yesilgul U., Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.48, pp.509-516, 2010 (Journal Indexed in SCI)
- XXXIX. **Intense laser effects on donor impurity in a cylindrical single and vertically coupled quantum dots under combined effects of hydrostatic pressure and applied electric field**
Duque C. A. , Kasapoglu E., Sakiroglu S., Sari H., Sokmen I.
APPLIED SURFACE SCIENCE, vol.256, pp.7406-7413, 2010 (Journal Indexed in SCI)
- XL. **The effect of nitrogen on the diamagnetic susceptibility of a donor in $GaxIn_{1-x}NyAs_{1-y}/GaAs$ quantum well under the magnetic field**
Kilicarslan E., Sakiroglu S., Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.48, pp.305-311, 2010 (Journal Indexed in SCI)
- XLI. **The effects of temperature and hydrostatic pressure on the photoionization cross-section and binding energy of impurities in quantum-well wires**
Yesilgul U., Sakiroglu S., Kasapoglu E., Sari H., Soekmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.48, pp.106-113, 2010 (Journal Indexed in SCI)
- XLII. **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, pp.2980-2984, 2010 (Journal Indexed in SCI)
- XLIII. **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, pp.1623-1626, 2010 (Journal Indexed in SCI)
- XLIV. **The effects of the magnetic field and dielectric screening on the diamagnetic susceptibility of a donor in a quantum well with anisotropic effective mass**
Kilicarslan E., Sakiroglu S., Koksall M., Sari H., Sokmen I.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.42, pp.1531-1535, 2010 (Journal Indexed in SCI)
- XLV. **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, pp.864-871, 2009 (Journal Indexed in SCI)
- XLVI. **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, pp.817-822, 2009 (Journal Indexed in SCI)
- XLVII. **Magnetic-field effect on the diamagnetic susceptibility of hydrogenic impurities in quantum well-wires**
Koksall M., Kilicarslan E., Sari H., Sokmen I.
PHYSICA B-CONDENSED MATTER, vol.404, pp.3850-3854, 2009 (Journal Indexed in SCI)
- XLVIII. **FINITE ELEMENT ANALYSIS OF VALENCE BAND STRUCTURE OF SQUARE QUANTUM WELL UNDER THE ELECTRIC FIELD**
Gunes M., Kasapoglu E., Sari H., Akgungor K., Sokmen I.
SURFACE REVIEW AND LETTERS, vol.16, pp.689-696, 2009 (Journal Indexed in SCI)
- XLIX. **Photoionization cross-section and binding energy of donor impurities in GaAs, Ge and Si quantum wires with infinite barriers**
Koksall M., Kasapoglu E., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.46, pp.507-512, 2009 (Journal Indexed in SCI)
- L. **Fourier transform technique in variational treatment of two-electron parabolic quantum dot**
Sakiroglu S., Yildiz A., Dogan U., Akgungor K., Epik H., Ergun Y., Sari H., Sokmen I.
CHINESE PHYSICS B, vol.18, pp.3508-3516, 2009 (Journal Indexed in SCI)
- LI. **Binding energies of donor impurities in modulation-doped GaAs/Al_xGa_{1-x}As double quantum wells under an electric field**
Kasapoglu E., Ugan F., Sari H., Sokmen I.
SUPERLATTICES AND MICROSTRUCTURES, vol.45, pp.618-623, 2009 (Journal Indexed in SCI)
- LII. **Ground state energy of excitons in quantum dot treated variationally via Hylleraas-like wavefunction**
Sakiroglu S., Dogan U., Yildiz A., Akgungor K., Epik H., Ergun Y., Sari H., Sokmen I.
CHINESE PHYSICS B, vol.18, pp.1578-1585, 2009 (Journal Indexed in SCI)
- LIII. **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, pp.105-110, 2009 (Journal Indexed in SCI)
- LIV. **Effects of magnetic and electric fields on the hydrogenic impurity in an ellipsoidal parabolic quantum dot**
Kasapoglu E., Sari H., Sokmen I.
SURFACE REVIEW AND LETTERS, vol.15, pp.201-205, 2008 (Journal Indexed in SCI)
- LV. **Density of impurity states of hydrogenic impurities in an inverse parabolic quantum well under the magnetic field**
Kasapoglu E., Sari H., Sokmen I.
PHYSICA B-CONDENSED MATTER, vol.392, pp.213-216, 2007 (Journal Indexed in SCI)
- LVI. **Binding energy of impurity states in an inverse parabolic quantum well under magnetic field**
Kasapoglu E., Sari H., Sokmen I.
PHYSICA B-CONDENSED MATTER, vol.390, pp.216-219, 2007 (Journal Indexed in SCI)

- LVII. **The electric field dependence of the photoionization cross-section of shallow donor impurities in quantum dots: Infinite and finite model**
Kasapoglu E., Sari H., Yesilgul U., Sokmen O.
SURFACE REVIEW AND LETTERS, vol.13, pp.747-752, 2006 (Journal Indexed in SCI)
- LVIII. **Shallow donors in a coupled triple graded quantum well under the electric and magnetic fields**
Kasapoglu E., Sari H., Sokmen I.
SURFACE REVIEW AND LETTERS, vol.13, pp.397-401, 2006 (Journal Indexed in SCI)
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