Prof. Dr. MEHMET TOMAK

Kişisel Bilgiler

E-posta: tomak@metu.edu.tr
Web: https://avesis.metu.edu.tr/tomak

Uluslararası Araştırmacı ID'leri
ScopusID: 7004930120
Yoksis Araştırmacı ID: 163774

Yönetilen Tezler

TOMAK M., Growth and morphological characterization of intrinsic hydrogenated amorphous silicon thin film for a-Si:H/c-Si heterojunction solar cells, Doktora, Ö.PEHLİVAN(Öğrenci), 2013
TOMAK M., First-principles study of GaAs/AlAs nanowire heterostructures, Doktora, S.ŞENOZAN(Öğrenci), 2012
TOMAK M., Density functional investigation of nano-structures, Doktora, O.ÜZENGİ(Öğrenci), 2010
TOMAK M., Nonlinear optical properties of semiconductor heterostructures, Doktora, H.YILDIRIM(Öğrenci), 2006
TOMAK M., İki boyutlu kuantum kuyusu yapılarının lineer olmayan optik özellikleri., Yüksek Lisans, R.Ağanoğlu(Öğrenci), 2006
TOMAK M., Ensemble monte carlo simulation of quantum well infrared photodetectors, Doktora, S.MEMİŞ(Öğrenci), 2006
TOMAK M., Non-linear optical properties of tow dimensional quantum well structures, Yüksek Lisans, R.AĞANOĞLU(Öğrenci), 2006
TOMAK M., Düşük boyutlu yarıiletken heteroyapılarının sayısal olarak çalışılması., Doktora, B.Dikmen(Öğrenci), 2004
LEBLEBİCİOĞLU M. K., TOMAK M., Numerical studies of the electronic properties of low dinensional semiconduktor heterostructures, Doktora, B.DİKMEN(Öğrenci), 2004
TOMAK M., Dielectric formulation of the one dimensional electron gas, Doktora, M.TAŞ(Öğrenci), 2004
TOMAK M., Bose-Einstein condensation at lower dimesions, Yüksek Lisans, S.ÖZDEMİR(Öğrenci), 2004
TOMAK M., Physical psoperties of Pd,Ni metals and their binary alloys, Doktora, S.ÖZDEMİR(Öğrenci), 2004
TOMAK M., Pd, Ni metalleri ve ikili alaşımlarının fiziksel özellikleri, Doktora, S.Özdemir(Öğrenci), 2004
TOMAK M., Düşük boyutlarda Bose-Einstein yoğuşması., Yüksek Lisans, S.Özdemir(Öğrenci), 2004
TOMAK M., Molecular dynamics study of random and ordered metals and metal alloys, Doktora, H.HÜSEYİN(Öğrenci), 2004
TOMAK M., Molecular-dynamics investigation of pure metals and metal alloy, Doktora, M.ULUDOĞAN(Öğrenci), 2003
TOMAK M., Application of time-domain technique to study the ray movement inside bounded anisotropic medium, Doktora, A.BİBER(Öğrenci), 2003
TOMAK M., Molecular-dynamics investigation of pure metals and metal alloys, Doktora, M.Uludogan(Öğrenci), 2003
TOMAK M., Molecular-dynamics investigation of the dynamic properties of Pd and Al metals, and their alloys, Doktora, A.ÇORUH(Öğrenci), 2003
TOMAK M., The Role of different interaction potentials in Bose-Einstein condensation, Yüksek Lisans, Y.YILDIRIM(Öğrenci), 2002
TOMAK M., Wigner crystallization in semiconductor quantum wires and model calculations for HE-HE mixture, Doktora, I.Al(Öğrenci), 1999
TOMAK M., Wigner crystallization in semiconductor quantum wires and model calculations for 3HE-4HE mixture, Doktora, I.AL(Öğrenci), 1999
TOMAK M., Electron-electron interactions in a two dimensional quantum dot, Doktora, N.AKMAN(Öğrenci), 1999
TOMAK M., Molecular dynamics computer simulation of solid and liquid metal alloys, Yüksek Lisans,

D.GÜLTOPRAK(Öğrenci), 1999
TOMAK M., Dielectric response of a quasi-one-dimensional electron gas, Yüksek Lisans, U.SUNAR(Öğrenci), 1998
TOMAK M., The Optical properties of quantum well structure, Yüksek Lisans, K.TURHAN(Öğrenci), 1998
TOMAK M., Many body interactions in one dimensional electron gas, Yüksek Lisans, M.TAŞ(Öğrenci), 1998
TOMAK M., Molecular dynamics computer simulation of palladium and platinum-palladium alloy, Yüksek Lisans, S.BEKKAYA(Öğrenci), 1997
TOMAK M., Molecular-Dynamics computer simulation of pure metal and liquid metal alloy, Yüksek Lisans, A.BİBER(Öğrenci), 1997
GÜNALP N., TOMAK M., Dielectric formulation of the three - and two - dimensional quantum many-electron systems, Doktora, C.Bulutay(Öğrenci), 1997
TOMAK M., Spline fuction method applied to the low dimensional electronic structures, Yüksek Lisans, B.DİKMEN(Öğrenci), 1996
TOMAK M., Molecular-dynamics computer simulation of pure metals and metal alloys, Yüksek Lisans, M.ULUDOĞAN(Öğrenci), 1996
TOMAK M., An Analytical approach for electronic properties of semiconductor quantum well-wines, Doktora, A.SALİM(Öğrenci), 1995
TOMAK M., An analytical approach for electronic properties of semiconductor quantum-well wires, Doktora, A.Nassar(Öğrenci), 1995
TOMAK M., Oscillatory magnetoresistance in two-dimensional semiconductor structures, Doktora, B.Uslu(Öğrenci), 1995
TOMAK M., Oscillatory magnetoresistance in two dimensional aemiconductor structures, Doktora, B.USLU(Öğrenci), 1995
TOMAK M., The electronic structure of delta doped semiconductors, Yüksek Lisans, S.Honarkhah(Öğrenci), 1994
TOMAK M., The Electronic and transport properties of modulation doped heterostructures, Doktora, M.AYMAN(Öğrenci), 1994
TOMAK M., The electronic structure and optical absorption in modulation doped semiconductor heterostructures, Doktora, R.Abdalla(Öğrenci), 1994
TOMAK M., The Electronic structure and optical absorbtion in modülation doped semiconductor heterostructures, Doktora, R.ABDALLA(Öğrenci), 1994
TOMAK M., Eletcronic properties of semiconductor heterpjunctions., Doktora, M.İzzat(Öğrenci), 1992
TOMAK M., Electronik properties of semiconductor heterojunctions, Doktora, M.İZZAT(Öğrenci), 1992
TOMAK M., The K.p method for electronic structure of semiconductors, Yüksek Lisans, A.NASSAR(Öğrenci), 1991
TOMAK M., Photoionization and polarization of electrons in bulk and low-dimensional semiconductors, Doktora, K.FAİSAL(Öğrenci), 1991
TOMAK M., Photoionization and polarization of electrons in bulk low-dimensional semiconductors, Doktora, K.Faisal(Öğrenci), 1991
TOMAK M., The k.p. method for electronic structure of semiconductors, Yüksek Lisans, A.Nassar(Öğrenci), 1991
TOMAK M., Properties of shallow impurities in quantum wells and wires, Doktora, M.KHALİL(Öğrenci), 1990
TOMAK M., The Transport and thermodynamical properties of liquid metals, Doktora, T.MOHAMMAD(Öğrenci), 1988
TOMAK M., Description of the electronic structure of solids by the recursion methods, Doktora, M.EL(Öğrenci), 1987
TOMAK M., Description of the elctronic structure of solids by the recursion method, Doktora, M.El(Öğrenci), 1987
TOMAK M., Localized orbital description of electronic band structures, alloys, vacancies in semiconductors., Doktora, E.Erbarut(Öğrenci), 1986
TOMAK M., Impurities in semiconductors., Doktora, Ç.Tuncay(Öğrenci), 1984

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **The effect of Coulomb interaction on optical absorption of a quantum well wire**
Ustoglu Unal V., TOMAK M., Aksahin E.
Physica B: Condensed Matter, cilt.680, 2024 (SCI-Expanded)

II. **Exciton related nonlinear optical properties of a quantum wire**

Ustoglu Unal V., TOMAK M., Zorlu O., Aksahin E.
Physica B: Condensed Matter, cilt.675, 2024 (SCI-Expanded)

III. **Nonlinear Optical Properties of Low Dimensional Quantum Systems**
Unal V. U., Tomak M., Aksahin E., Zorlu O.
PROGRESS IN NANOSCALE AND LOW-DIMENSIONAL MATERIALS AND DEVICES, cilt.144, ss.709-729, 2022 (SCI-Expanded)

IV. **Exciton related nonlinear optical properties of a spherical quantum dot**
Aksahin E., Unal V. U., TOMAK M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.74, ss.258-263, 2015 (SCI-Expanded)

V. **Adsorption of RuSex (x=1-5) cluster on Se-doped graphene: First principle calculations**
AKTÜRK O. Ü., TOMAK M.
APPLIED SURFACE SCIENCE, cilt.347, ss.808-815, 2015 (SCI-Expanded)

VI. **Study of the a-Si:H/c-Si Heterointerface by Ex-Situ Spectroscopic Ellipsometry, Infrared Spectroscopy, and Solar Cell Modeling**
Pehlivan O., KARATAŞ S., Yilmaz O., Kodolbas A. O., Duygulu O., DUYGULU N., İSKENDER İ., TOMAK M.
CHINESE JOURNAL OF PHYSICS, cilt.53, sa.3, 2015 (SCI-Expanded)

VII. **Exciton related optical absorption in a spherical quantum dot**
Aksahin E., Unal V. U., TOMAK M.
EUROPEAN PHYSICAL JOURNAL B, cilt.87, sa.11, 2014 (SCI-Expanded)

VIII. **Spin-orbit effects on the nonlinear optical properties of a quantum dot in simultaneous electric and magnetic fields**
AYTEKİN Ö., TURGUT S., TOMAK M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.64, ss.29-32, 2014 (SCI-Expanded)

IX. **Electronic and geometric structure of AuxCuy clusters studied by density functional theory**
KADIOĞLU Y., AKTÜRK O. Ü., TOMAK M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, cilt.25, sa.6, 2014 (SCI-Expanded)

X. **Nonlinear optical properties of a Woods-Saxon quantum dot under an electric field**
AYTEKİN Ö., TURGUT S., Unal V. U., Aksahin E., TOMAK M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.54, ss.257-261, 2013 (SCI-Expanded)

XI. **Structural characterization of intrinsic a-Si:H thin films for silicon heterojunction solar cells**
Pehlivan O., Yilmaz O., Kodolbas A. O., Duygulu O., TOMAK M.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, cilt.15, ss.22-24, 2013 (SCI-Expanded)

XII. **Nonlinear optical properties of a Poschl-Teller quantum well under electric and magnetic fields**
AYTEKİN Ö., TURGUT S., Tomak M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.44, ss.1612-1616, 2012 (SCI-Expanded)

XIII. **Lithium and antimony adsorbed on graphene studied by first-principles calculations**
AKTÜRK O. Ü., TOMAK M.
APPLIED SURFACE SCIENCE, cilt.258, sa.2, ss.800-805, 2011 (SCI-Expanded)

XIV. **A continuum model for dephasing in mesoscopic systems**
Şenozan S., TURGUT S., Tomak M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.43, sa.10, ss.1845-1852, 2011 (SCI-Expanded)

XV. **Thermodynamics of a two-dimensional interacting Bose gas trapped in a quartic potential**
Karabulut E. O., Koyuncu M., ATAV Ü., TOMAK M.
PHYSICS LETTERS A, cilt.375, sa.3, ss.339-345, 2011 (SCI-Expanded)

XVI. **NH3 and H2S adsorption on Au3Pt3 cluster studied by a first principles calculation**
Akturk O. U., TOMAK M.
THIN SOLID FILMS, cilt.518, sa.18, ss.5195-5203, 2010 (SCI-Expanded)

XVII. **Au-8 cluster adsorption on Si(100):2 x 1 asymmetric surface studied by a first principles calculation**
Akturk O. U., TOMAK M.
THIN SOLID FILMS, cilt.518, sa.12, ss.3234-3239, 2010 (SCI-Expanded)

XVIII. **Thermodynamics of Bose-Einstein gas trapped in D-dimensional quartic potentials**

Karabulut E. O., Koyuncu M., TOMAK M.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, cilt.389, sa.7, ss.1371-1379, 2010 (SCI-Expanded)

XIX. **Bismuth doping of graphene**
Akturk O. U., TOMAK M.
APPLIED PHYSICS LETTERS, cilt.96, sa.8, 2010 (SCI-Expanded)

XX. **VIBRATIONAL MODES IN SMALL Ag-n, Au-n CLUSTERS: A FIRST PRINCIPLE CALCULATION**
Aktuerk O. U., GÜLSEREN O., TOMAK M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, cilt.23, sa.31, ss.5819-5834, 2009 (SCI-Expanded)

XXI. **AunPtn clusters adsorbed on graphene studied by first-principles calculations**
Akturk O. U., TOMAK M.
PHYSICAL REVIEW B, cilt.80, sa.8, 2009 (SCI-Expanded)

XXII. **Transferability of Sutton-Chen Potential Parameters in Au-Ni Binary Metal Alloys**
Uludogan M., Cagin T., TOMAK M.
JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE, cilt.6, sa.4, ss.942-949, 2009 (SCI-Expanded)

XXIII. **Can Sobolev Inequality Be Written for Sharma-Mittal Entropy?**
Akturk O. U., Akturk E., TOMAK M.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, cilt.47, sa.12, ss.3310-3320, 2008 (SCI-Expanded)

XXIV. **Excitonic effects on the nonlinear optical properties of small quantum dots**
KARABULUT İ., Safak H., TOMAK M.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.41, sa.15, 2008 (SCI-Expanded)

XXV. **Intersubband resonant enhancement of the nonlinear optical properties in compositionally asymmetric and interdiffused quantum wells**
KARABULUT İ., Safak H., TOMAK M.
JOURNAL OF APPLIED PHYSICS, cilt.103, sa.10, 2008 (SCI-Expanded)

XXVI. **Theoretical investigation of intersubband nonlinear optical rectification in AlxlGa1-xlAs/GaAs/AlxrGa1-xrAs asymmetric rectangular quantum wells**
Karabulut I., Atav U., Safak H., Tomak M.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, cilt.244, sa.9, ss.3313-3324, 2007 (SCI-Expanded)

XXVII. **Second harmonic generation in an asymmetric rectangular quantum well under hydrostatic pressure**
Karabulut I., Atav U., Safak H., Tomak M.
PHYSICA B-CONDENSED MATTER, cilt.393, ss.133-138, 2007 (SCI-Expanded)

XXVIII. **Linear and nonlinear intersubband optical absorptions in an asymmetric rectangular quantum well**
Karabulut I., Atav U., Safak H., Tomak M.
EUROPEAN PHYSICAL JOURNAL B, cilt.55, sa.3, ss.283-288, 2007 (SCI-Expanded)

XXIX. **Third-harmonic generation in a quantum well with adjustable asymmetry under an electric field**
Yildirim H., Tomak M.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, cilt.243, sa.15, ss.4057-4063, 2006 (SCI-Expanded)

XXX. **Structural, thermodynamical, and transport properties of undercooled binary Pd-Ni alloys**
Kart S. O., Tomak M., Uludogan M., Cagin T.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, cilt.435, ss.736-744, 2006 (SCI-Expanded)

XXXI. **A detailed ensemble Monte Carlo study of the effect of quantum well width on quantum well infrared photodetector characteristics**
Memiş S., Cellek O., Bostanci U., TOMAK M., BEŞİKCİ C.
Turkish Journal of Physics, cilt.30, sa.4, ss.335-344, 2006 (SCI-Expanded)

XXXII. **Nonlinear intersubband optical absorption of Si delta-doped GaAs under an electric field**
Yildirim H., Tomak M.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, cilt.243, sa.12, ss.2874-2881, 2006 (SCI-Expanded)

XXXIII. **Intensity-dependent refractive index of a Poschl-Teller quantum well**
Yildirim H., Tomak M.
JOURNAL OF APPLIED PHYSICS, cilt.99, sa.9, 2006 (SCI-Expanded)

XXXIV. **Optical absorption of a quantum well with an adjustable asymmetry**
Yildirim H., Tomak M.
EUROPEAN PHYSICAL JOURNAL B, cilt.50, sa.4, ss.559-564, 2006 (SCI-Expanded)

XXXV. **A parabolic quantum dot with N electrons and an impurity**
Gulveren B., Atav U., Sahin M., Tomak M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.30, ss.143-149, 2005 (SCI-Expanded)

XXXVI. **Electronic structure of a many-electron spherical quantum dot with an impurity**
Sahin M., Tomak M.
PHYSICAL REVIEW B, cilt.72, sa.12, 2005 (SCI-Expanded)

XXXVII. **Electronic properties of a large quantum dot at a finite temperature**
Gulveren B., Atav U., Tomak M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.28, sa.4, ss.482-490, 2005 (SCI-Expanded)

XXXVIII. **Nonlinear optical properties of a Poschl-Teller quantum well**
Yildirim H., Tomak M.
PHYSICAL REVIEW B, cilt.72, sa.11, 2005 (SCI-Expanded)

XXXIX. **Nonlinear optical rectification in asymmetrical semiparabolic quantum wells**
Karabulut I., Safak H., Tomak M.
SOLID STATE COMMUNICATIONS, cilt.135, ss.735-738, 2005 (SCI-Expanded)

XL. **Quantum genetic algorithm method in self-consistent electronic structure calculations of a quantum dot with many electrons**
Sahin M., Atav U., Tomak M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, cilt.16, sa.9, ss.1379-1393, 2005 (SCI-Expanded)

XLI. **The self-consistent calculation of a spherical quantum dot: A quantum genetic algorithm study**
Sahin M., Tomak M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.28, sa.3, ss.247-256, 2005 (SCI-Expanded)

XLII. **Thermal and mechanical properties of Cu-Au intermetallic alloys**
Kart H., Tomak M., Cagin T.
MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING, cilt.13, sa.5, ss.657-669, 2005 (SCI-Expanded)

XLIII. **Thermomagnetic effects of nondegenerate Kane semiconductors under the conditions of mutual electron-phonon drag in high electric and arbitrary magnetic fields**
Babaev M., Gassym T., Tas M., Tomak M.
JOURNAL OF PHYSICS-CONDENSED MATTER, cilt.17, sa.21, ss.3255-3267, 2005 (SCI-Expanded)

XLIV. **Electronic structure calculations of low-dimensional semiconductor structures using B-spline basis functions**
Dikmen B., Tomak M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, cilt.16, sa.2, ss.237-251, 2005 (SCI-Expanded)

XLV. **Phonon dispersions and elastic constants of disordered Pd-Ni alloys**
Kart S., Tomak M., Cagin T.
PHYSICA B-CONDENSED MATTER, cilt.355, ss.382-391, 2005 (SCI-Expanded)

XLVI. **Thermodynamical and mechanical properties of Pd-Ag alloys**
Kart H., Tomak M., Uludogan M., Cagin T.
COMPUTATIONAL MATERIALS SCIENCE, cilt.32, sa.1, ss.107-117, 2005 (SCI-Expanded)

XLVII. **Spin-correlation effects in a one-dimensional electron gas**
Tas M., Tomak M.
PHYSICAL REVIEW B, cilt.70, sa.23, 2004 (SCI-Expanded)

XLVIII. **Nonlinear Seebeck and Peltier effects in quantum point contacts**
Çipiloğlu M. A., TURGUT S., Tomak M.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, cilt.241, sa.11, ss.2575-2585, 2004 (SCI-Expanded)

XLIX. **Simulation of crystallization and glass formation of binary Pd-Ag metal alloys**
Kart H., Uludogan M., Cagin T., Tomak M.

JOURNAL OF NON-CRYSTALLINE SOLIDS, cilt.342, ss.6-11, 2004 (SCI-Expanded)

L. **Liquid properties of Pd-Ni alloys**
Kart S., Tomak M., Uludogan M., Cagin T.
JOURNAL OF NON-CRYSTALLINE SOLIDS, cilt.337, sa.2, ss.101-108, 2004 (SCI-Expanded)

LI. **Structural and dynamical properties of liquid Pd-Ag alloys**
Kart H., Tomak M., Uludogan M., Cagin T.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, cilt.18, sa.16, ss.2257-2269, 2004 (SCI-Expanded)

LII. **Efficiency of genetic algorithm and determination of ground state energy of impurity in a spherical quantum dot**
Safak H., Sahin M., Gulveren B., Tomak M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, cilt.14, sa.6, ss.775-784, 2003 (SCI-Expanded)

LIII. **Short-range correlations in a one-dimensional electron gas**
Tas M., Tomak M.
PHYSICAL REVIEW B, cilt.67, sa.23, 2003 (SCI-Expanded)

LIV. **Influence of mutual drag of the carrier-phonon system on the thermopower and transverse Nernst-Ettingshausen effect**
Babaev M., Gassym T., Tas M., Tomak M.
PHYSICAL REVIEW B, cilt.67, sa.11, 2003 (SCI-Expanded)

LV. **Self-consistent calculation of semiconductor heterojunctions using quantum genetic algorithm**
Sahin M., Tomak M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, cilt.16, sa.26, ss.3883-3893, 2002 (SCI-Expanded)

LVI. **Time-domain mapping of electromagnetic ray movement inside anisotropic spherical resonator**
Biber A., Golick A., Tomak M.
INTERNATIONAL JOURNAL OF INFRARED AND MILLIMETER WAVES, cilt.23, sa.9, ss.1315-1325, 2002 (SCI-Expanded)

LVII. **Time-domain mapping of electromagnetic ray movement inside 2D anisotropic region**
Biber A., Golick A., Tomak M.
INTERNATIONAL JOURNAL OF INFRARED AND MILLIMETER WAVES, cilt.23, sa.6, ss.919-930, 2002 (SCI-Expanded)

LVIII. **Optical ray movement inside dielectric sphere**
Biber A., Golick A., Tomak M.
INTERNATIONAL JOURNAL OF INFRARED AND MILLIMETER WAVES, cilt.22, sa.7, ss.1019-1035, 2001 (SCI-Expanded)

LIX. **Donor binding energies in GaAs quantum wells considering the band nonparabolicity effects and the wavefunction elongation**
Aktas S., Okan S., Erdogan I., Akbas H., Tomak M.
SUPERLATTICES AND MICROSTRUCTURES, cilt.28, sa.3, ss.165-169, 2000 (SCI-Expanded)

LX. **Binding energies of helium-like impurities in parabolic quantum wells under an applied electric field**
Okan S., Akbas H., Aktas S., Tomak M.
SUPERLATTICES AND MICROSTRUCTURES, cilt.28, sa.3, ss.171-176, 2000 (SCI-Expanded)

LXI. **The Wigner molecule in a 2D quantum dot**
Akman N., Tomak M.
PHYSICA E, cilt.4, sa.4, ss.277-285, 1999 (SCI-Expanded)

LXII. **The exciton transition energies in symmetric double GaAs/AlxGa1-xAs quantum wells**
Okan S., Aktas S., Akbas H., Tomak M.
PHYSICA STATUS SOLIDI B-BASIC RESEARCH, cilt.212, sa.2, ss.263-270, 1999 (SCI-Expanded)

LXIII. **Interacting electrons in a 2D quantum dot**
Akman N., Tomak M.
PHYSICA B, cilt.262, ss.317-321, 1999 (SCI-Expanded)

LXIV. **Thermal and mechanical properties of some fcc transition metals**
Cagin T., Dereli G., Uludogan M., Tomak M.

PHYSICAL REVIEW B, cilt.59, sa.5, ss.3468-3473, 1999 (SCI-Expanded)

LXV. **Two-dimensional Yukawa bose liquid: A Singwi-Tosi-Land-Sjolander study**
Bulutay C., Tanatar B., Tomak M.
PHYSICAL REVIEW B, cilt.57, sa.24, ss.15197-15203, 1998 (SCI-Expanded)

LXVI. **Acceptor 1s-2p(+/-) transitions in GaAs/Ga0.7Al0.3As quantum wells: Effects of spatially dependent screening under electric and magnetic fields**
Akbas H., Aktas S., Okan S., Ulas M., Tomak M.
PHYSICA STATUS SOLIDI B-BASIC RESEARCH, cilt.205, sa.2, ss.537-542, 1998 (SCI-Expanded)

LXVII. **Electronic structure of modulation-doped heterostructures: electric field effects**
Ilaiwi K., El-Kawni M., Tomak M.
SUPERLATTICES AND MICROSTRUCTURES, cilt.24, sa.1, ss.61-67, 1998 (SCI-Expanded)

LXVIII. **Screening effect on the binding energies of shallow donors, acceptors and excitons in finite-barrier quantum wells**
Akbas H., Aktas S., Okan S., Ulas M., Tomak M.
SUPERLATTICES AND MICROSTRUCTURES, cilt.23, sa.1, ss.113-119, 1998 (SCI-Expanded)

LXIX. **Subband structure and excitonic binding of graded GaAs/Ga1-xAlxAs quantum wells under an electric field**
Sari H., Ergun Y., Elagoz S., Kasapoglu E., Sokmen I., Tomak M.
SUPERLATTICES AND MICROSTRUCTURES, cilt.23, sa.5, ss.1067-1074, 1998 (SCI-Expanded)

LXX. **Effect of valley-spin degeneracy on the screening of charged-impurity centers in two- and three-dimensional electronic devices**
Bulutay C., Al-Hayek I., Tomak M.
PHYSICAL REVIEW B, cilt.56, sa.23, ss.15115-15123, 1997 (SCI-Expanded)

LXXI. **Thermal and mechanical properties of Pt-Rh alloys**
Dereli G., Cagin T., Uludogan M., Tomak M.
PHILOSOPHICAL MAGAZINE LETTERS, cilt.75, sa.4, ss.209-217, 1997 (SCI-Expanded)

LXXII. **Shallow donors in a quantum well wire: Electric field and geometrical effects**
Ulas M., Akbas H., Tomak M.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, cilt.200, sa.1, ss.67-73, 1997 (SCI-Expanded)

LXXIII. **Dielectric function of the two-dimensional electron liquid: An analytical fitting**
Bulutay C., Tomak M.
PHYSICAL REVIEW B, cilt.53, sa.11, ss.7317-7321, 1996 (SCI-Expanded)

LXXIV. **The electronic structure of a quantum well under an applied electric field**
Sari H., Ergun Y., Sokmen I., Tomak M.
SUPERLATTICES AND MICROSTRUCTURES, cilt.20, sa.2, ss.163-172, 1996 (SCI-Expanded)

LXXV. **ELECTRON BIPRISM OPERATION OF SPLIT-GATE HETEROSTRUCTURES HAVING A SINGLE IMPURITY WITHIN THE CHANNEL**
BULUTAY C., GUNALP N., TOMAK M.
JOURNAL OF APPLIED PHYSICS, cilt.76, sa.9, ss.5309-5317, 1994 (SCI-Expanded)

LXXVI. **THERMODYNAMICS AND STRUCTURE OF LIQUID BINARY-ALLOYS CALCULATED USING AN ANALYTIC PAIR POTENTIAL**
DALGIC S., DALGIC S., DERELI G., TOMAK M.
PHYSICAL REVIEW B, cilt.50, sa.1, ss.113-117, 1994 (SCI-Expanded)

LXXVII. **CASIMIR ENERGIES OF LOCALIZED LIGHT AND ELECTRONS IN DISORDERED MATERIALS**
DURU I., TOMAK M.
PHYSICS LETTERS A, cilt.176, ss.265-266, 1993 (SCI-Expanded)

LXXVIII. **PHOTOIONIZATION OF IMPURITIES IN QUANTUM-WELLS**
ELSAID M., TOMAK M.
SOLID STATE COMMUNICATIONS, cilt.82, sa.9, ss.721-723, 1992 (SCI-Expanded)

LXXIX. **SHALLOW IMPURITIES IN HETEROJUNCTIONS**
ELKAWNI M., TOMAK M.

JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, cilt.53, sa.2, ss.305-308, 1992 (SCI-Expanded)

LXXX. **PHOTOIONIZATION OF IMPURITIES IN HETEROJUNCTIONS**
ELKAWNI M., TOMAK M.
SURFACE SCIENCE, cilt.260, ss.319-322, 1992 (SCI-Expanded)

LXXXI. **ELECTRON POLARIZATION IN QUANTUM-WELLS WITH UNIFORM ELECTRIC-FIELD**
ILAIWI K., TOMAK M.
PHYSICA STATUS SOLIDI B-BASIC RESEARCH, cilt.166, sa.2, ss.409-413, 1991 (SCI-Expanded)

LXXXII. **ELECTRON POLARIZATION IN A QUANTUM-WELL WITH UNIFORM ELECTRIC-FIELD**
ILAIWI K., TOMAK M.
SOLID STATE COMMUNICATIONS, cilt.78, sa.11, ss.1007-1009, 1991 (SCI-Expanded)

LXXXIII. **THERMODYNAMICS OF SIMPLE LIQUID-METALS CALCULATED USING AN ANALYTIC PAIR POTENTIAL**
KHAJIL T., TOMAK M.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA D-CONDENSED MATTER ATOMIC MOLECULAR AND CHEMICAL PHYSICS FLUIDS PLASMAS BIOPHYSICS, cilt.13, sa.5, ss.565-570, 1991 (SCI-Expanded)

LXXXIV. **MAGNETIC-FIELD DEPENDENCE OF HYDROGENIC IMPURITY STATES IN A QUANTUM-WELL WIRE**
ELSAID M., TOMAK M.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA D-CONDENSED MATTER ATOMIC MOLECULAR AND CHEMICAL PHYSICS FLUIDS PLASMAS BIOPHYSICS, cilt.13, sa.2, ss.165-168, 1991 (SCI-Expanded)

LXXXV. **PHOTOIONIZATION OF IMPURITIES IN INFINITE-BARRIER QUANTUM-WELLS**
ELSAID M., TOMAK M.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, cilt.52, sa.4, ss.603-606, 1991 (SCI-Expanded)

LXXXVI. **ELECTRON POLARIZATION IN A PARABOLIC QUANTUM-WELL WITH UNIFORM ELECTRIC-FIELD**
ILAIWI K., TOMAK M.
SUPERLATTICES AND MICROSTRUCTURES, cilt.10, sa.1, ss.27-30, 1991 (SCI-Expanded)

LXXXVII. **POLARIZABILITIES OF SHALLOW DONORS IN FINITE-BARRIER QUANTUM-WELLS**
ILAIWI K., TOMAK M.
PHYSICAL REVIEW B, cilt.42, sa.5, ss.3132-3134, 1990 (SCI-Expanded)

LXXXVIII. **POLARIZABILITIES OF SHALLOW DONORS IN QUANTUM-WELLS**
ELSAID M., TOMAK M.
PHYSICAL REVIEW B, cilt.42, sa.5, ss.3129-3131, 1990 (SCI-Expanded)

LXXXIX. **IMPURITY PHOTOIONIZATION IN SEMICONDUCTORS**
ILAIWI K., TOMAK M.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, cilt.51, sa.4, ss.361-365, 1990 (SCI-Expanded)

XC. **ELECTRICAL RESISTIVITIES OF LIQUID AL-MG AND AL-CU ALLOYS**
KHAJIL T., TOMAK M.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA D-CONDENSED MATTER ATOMIC MOLECULAR AND CHEMICAL PHYSICS FLUIDS PLASMAS BIOPHYSICS, cilt.11, sa.5, ss.739-744, 1989 (SCI-Expanded)

XCI. **THERMODYNAMIC PROPERTIES OF SIMPLE LIQUID-METALS CALCULATED USING AN ANALYTIC PAIR POTENTIAL**
KHAJIL T., TOMAK M.
PHYSICAL REVIEW A, cilt.38, sa.10, ss.5437-5439, 1988 (SCI-Expanded)

XCII. **ELECTRICAL RESISTIVITIES OF LIQUID LI-SN AND NA-PB ALLOYS**
KHAJIL T., TOMAK M.
PHYSICAL REVIEW A, cilt.37, sa.11, ss.4377-4379, 1988 (SCI-Expanded)

XCIII. **THE ELECTRONIC-STRUCTURE OF IN1-XGAXP ALLOY BY THE RECURSION METHOD**
ELHASAN M., TOMAK M.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA D-CONDENSED MATTER ATOMIC MOLECULAR AND CHEMICAL PHYSICS FLUIDS PLASMAS BIOPHYSICS, cilt.10, sa.3, ss.323-330, 1988 (SCI-Expanded)

XCIV. **SHALLOW AND CHALCOGEN DOUBLE DONORS IN SILICON**
TOMAK M., BALASUBRAMANIAN S.
PHYSICA SCRIPTA, ss.548-550, 1987 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Structural and Interfacial Properties of Large Area n-a-Si:H/i-a-Si:H/p-c-Si Heterojunction Solar Cells**
Pehlivan O., Menda D., Yilmaz O., Kodolbas A. O., Ozdemir O., Duygulu O., Kutlu K., Tomak M.
Conference on Thin Film Solar Technology V, California, Amerika Birleşik Devletleri, 25 - 26 Ağustos 2013, cilt.8823

II. **Simulation of crystallization and glass formation processes for binary Pd-Ag metal alloys**
Kart H., Uludogan M., Cagin T., Tomak M.
Conference of the NATO-Advanced-Study-Institute on Nanoengineered Nanofibrous Materials, Belek-Antalya, Türkiye, 1 - 12 Eylül 2003, cilt.169, ss.487-493

III. **Solid and liquid properties of Pd-Ni metal alloys using quantum Sutton-Chen many-body potential**
Kart S., Uludogan M., Cagin T., Tomak M.
Conference of the NATO-Advanced-Study-Institute on Nanoengineered Nanofibrous Materials, Belek-Antalya, Türkiye, 1 - 12 Eylül 2003, cilt.169, ss.535-540

IV. **Screening in two-dimensional electron liquid**
Bulutay C., Gunalp N., Tomak M.
NATO Advanced Study Institute on Frontiers in Nanoscale Science of Micron/Submicron Devices, KIEV, Ukrayna, 16 - 26 Ağustos 1995, cilt.328, ss.533-536

Metrikler

Yayın: 98
Atıf (WoS): 1832
Atıf (Scopus): 1705
H-İndeks (WoS): 21
H-İndeks (Scopus): 21

Akademi Dışı Deneyim

METU
METU
METU
METU
METU