

Prof. ZİYA MERDAN

Personal Information

Office Phone: [+90 312 202](tel:+90312202) Extension: 1534

Email: ziyamerdan@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/ziyamerdan>

Address: Gazi Üniversitesi Fen Fakültesi Fizik Bölümü Beşevler ANKARA



International Researcher IDs

ScholarID: 3TGBu3cAAAAJ

ORCID: 0000-0001-8708-8583

Publons / Web Of Science ResearcherID: ACX-4690-2022

ScopusID: 8952895100

Yoksis Researcher ID: 3310

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2000 - 2003

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik Eğitimi (YI) (Tezli), Turkey 1989 - 1993

Undergraduate, Gazi University, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1985 - 1989

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Altı boyutlu ising modelinin "Creutz cellular automaton"ında incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2003

Postgraduate, 11 Z 94 Elementler Bölgesinde Kbeta/Kalfa Oranlarının Deneysel ve Teorik Değerleri Üzerine Bir Çalışma, Gazi University, Fen Bilimleri Enstitüsü, Fizik Eğitimi (YI) (Tezli), 1993

Research Areas

Physics

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik, 2014 - 2021

Professor, Kirikkale University, Faculty Of Arts And Sciences, Department Of Physics, 2011 - 2011

Associate Professor, Kirikkale University, Faculty Of Arts And Sciences, Department Of Physics, 2008 - 2011

Associate Professor, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, 2006 - 2008

Assistant Professor, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, 2004 - 2006

Research Assistant, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, 1997 - 2004

Academic and Administrative Experience

Head of Department, Gazi University, Fen Fakültesi, Fizik Bölümü, 2014 - 2022

Head of Department, Gazi University, Fen Fakültesi, Fizik Bölümü, 2017 - 2020

Gazi University, Fen Fakültesi, Fizik Bölümü, 2011 - 2014

Gazi University, Fen Fakültesi, 2012 - 2013

Kirikkale University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2009 - 2011

Kirikkale University, Fen-Edebiyat Fakültesi, 2009 - 2011

Tokat Gaziosmanpaşa University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2004 - 2008

Tokat Gaziosmanpaşa University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2005 - 2005

Courses

FİZİK2, Undergraduate, 2020 - 2021

Fizik I, Undergraduate, 2019 - 2020

İleri İstatistik I, Doctorate, 2019 - 2020

Advising Theses

MERDAN Z., Investigation Of Structural, Electronic, Half Metallic And Magnetic Properties Of Some Xyz, X2yz And Xx'Yz (X, X', Y: Transition Metals, Z: In-V A Group Elements) Compounds, Doctorate, E.GÖRKEK(Student), 2021

MERDAN Z., The Finite-Size Scaling Relation For The Order-Parameter Probability Distribution Of The Seven-Dimensional Ising Model, Postgraduate, S.DOĞRUER(Student), 2020

MERDAN Z., Simulation Of Prostate Cancer Cells By Using Ising Model On The Creutz Cellular Automaton, Postgraduate, D.GÖKBEL(Student), 2019

MERDAN Z., Yarı iletken CdX (X =S, Se, Te, O) B bileşiklerinin yüksek basınç altında yapısal ve elektronik özelliklerinin incelenmesi, Doctorate, Ç.YAMÇIÇIER(Student), 2019

MERDAN Z., Fabrication Of Schottky Diode With Naphthalimide Having Different Functional Groups And Investigation Of Its Electrical Properties, Postgraduate, E.KARAGÖZ(Student), 2018

MERDAN Z., The Simulation Of Non-Small Cell Lung Cancer (Nslc) Tumorous Cells Using Ising Model With Creutz Cellular Automaton, Postgraduate, S.YEŞİLTAŞ(Student), 2018

MERDAN Z., Glioblastoma multiforme (GBM) tümör hücrelerinin ising modeli kullanılarak creutz cellular automaton ile simülasyonu, Doctorate, Z.ARTUÇ(Student), 2018

MERDAN Z., Bazı ikili bileşiklerde yüksek basınç altında yapısal faz dönüşümleri ve dönüşüm mekanizmasının incelenmesi, Doctorate, C.KÜRKÇÜ(Student), 2016

MERDAN Z., Beş boyutlu Ising modelinde düzen parametresi ihtimaliyet dağılımı için sonlu örgü ölçekleme bağıntısı, Postgraduate, H.KIRAN(Student), 2012

MERDAN Z., Dış manyetik alan varlığında dört boyutlu ising modelinin creutz 'cellular automaton'ı ile simülasyonu, Postgraduate, C.KÜRKÇÜ(Student), 2010

MERDAN Z., Dört boyutlu Ising modelinin Creutz 'Cellular Automaton'ı ile simülasyonunda hassasiyetin artırılması, Postgraduate, E.SÖNMEZ(Student), 2010

MERDAN Z., Beş boyutlu Ising modelinin dış manyetik alan varlığında ``creutz cellular automaton'' ile simülasyonu, Postgraduate, N.ARAS(Student), 2009

MERDAN Z., Yedi boyutlu ising modelinin creutz"celluar automaton"ında incelenmesi, Postgraduate, D.ATİLLE(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Electronic, magnetic, half-Metallic, pressure-induced elastic and curie temperature predictions of Zr₂RhTl Heusler alloy: DFT and EFT studies**
Özdemir E. G., Doğruer S., Merdan Z.
Philosophical Magazine, vol.104, no.2, pp.115-135, 2024 (SCI-Expanded)
- II. **Optimization of HIL-HTL-free naphthalimide: Isoquinoline TEOLEDs with BZO top electrode**
Fiat Varol S., Sayin S., MERDAN Z.
Solid-State Electronics, vol.209, 2023 (SCI-Expanded)
- III. **Structural, half-metallic, electronic, magnetic and pressure-induced elastic changes of PdVSi, PdVGe, PdVSn, and PdVSb alloys**
Balmumcu F. I., Özdemir E. G., Merdan Z.
Journal of Materials Science, vol.58, no.12, pp.5349-5361, 2023 (SCI-Expanded)
- IV. **Improved performance of near UV-blue n-ZnO/p-GaN heterostructure LED with an AlN electron blocking layer**
Unal D., Varol S. F., Brault J., Chenot S., Al Khalfioui M., MERDAN Z.
MICROELECTRONIC ENGINEERING, vol.262, 2022 (SCI-Expanded)
- V. **Comparative Studies of Undoped/Al-Doped/In-Doped ZnO Transparent Conducting Oxide Thin Films in Optoelectronic Applications**
Koralli P., Varol S. F., Mousdis G., Mouzakis D. E., MERDAN Z., Kompitsas M.
CHEMOSENSORS, vol.10, no.5, 2022 (SCI-Expanded)
- VI. **Electronic, magnetic and elastic calculations on half-metallic Heusler Ti₂RuTl compound**
Kartal Y. G. C., Ozdemir E. G., MERDAN Z.
PHILOSOPHICAL MAGAZINE, vol.102, no.2, pp.153-165, 2022 (SCI-Expanded)
- VII. **First-principles calculations to investigate half-metallic band gap and elastic stability of Co(Mo,Tc)MnSb compounds**
Ozdemir G. E., MERDAN Z.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.133, 2021 (SCI-Expanded)
- VIII. **Bridge constant and atom between theoretical and experimental magnetism in Ni₂MnSb Heusler alloy: DFT and EFT studies**
Saatçi B., Sarli N., Özdemir E. G., Merdan Z.
PHILOSOPHICAL MAGAZINE, vol.101, no.4, pp.501-516, 2021 (SCI-Expanded)
- IX. **The effect of structural changes on the half metallic properties by using Tran Blaha modified Becke Johnson (TB_mBJ) method**
ÖZDEMİR E. G., MERDAN Z.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.514, 2020 (SCI-Expanded)
- X. **A study of structural, electronic, elastic, phonon properties, and transition mechanism of wurtzite CdTe under high pressure**
Yamcicier C., KÜRKÇÜ C., MERDAN Z.
SOLID STATE SCIENCES, vol.105, 2020 (SCI-Expanded)
- XI. **Comparisons of half-metallic results of Al_{0.75}Co_{0.25}Sb diluted magnetic semiconductor with generalized gradient approximation (GGA) and Tran Blaha modified Becke-Johnson (TB_mBJ) potential methods**
ÖZDEMİR E. G., MERDAN Z.
PHYSICA B-CONDENSED MATTER, vol.581, 2020 (SCI-Expanded)
- XII. **First principle predictions on half-metallic results of MnZrX (X = In, Tl, C, Si, Ge, Sn, Pb, N, P, As, Sb, O, S, Se, Te) half-Heusler compounds**
Özdemir E. G., Merdan Z.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.491, 2019 (SCI-Expanded)
- XIII. **Half-metal calculations of CoZrGe half-Heusler compound by using generalized gradient approximation (GGA) and modified Becke-Johnson (mBJ) methods**

- Özdemir E. G., Merdan Z.
MATERIALS RESEARCH EXPRESS, vol.6, no.11, 2019 (SCI-Expanded)
- XIV. **First-principles calculations on half-metal ferromagnetic results of VZrAs and VZrSb half-Heusler compounds and $Al_{1-x}M_xAs$ ($M = Co, Fe$ and $x=0.0625, 0.125, 0.25$) diluted magnetic semiconductors**
Özdemir E. G., Merdan Z.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.807, 2019 (SCI-Expanded)
- XV. **Theoretical calculations on half-metallic results properties of FeZrX ($X = P, As, Sb$ and Bi) half-Heusler compounds: density functional theory**
Özdemir E. G., Merdan Z.
MATERIALS RESEARCH EXPRESS, vol.6, no.8, 2019 (SCI-Expanded)
- XVI. **Pressure-induced phase transitions, electronic, elastic and vibrational properties of zinc oxide under high pressure**
KÜRKÇÜ C., MERDAN Z., YAMCICIER C.
INDIAN JOURNAL OF PHYSICS, vol.93, no.8, pp.979-989, 2019 (SCI-Expanded)
- XVII. **Key role of central antimony in magnetization of Ni_{0.5}Co_{1.5}MnSb quaternary Heusler alloy revealed by comparison between theory and experiment**
Sarli N., Ak F., Özdemir E. G., Saatçi B., Merdan Z.
PHYSICA B-CONDENSED MATTER, vol.560, pp.46-50, 2019 (SCI-Expanded)
- XVIII. **First-principles predictions on structural, electronic, magnetic and elastic properties of Mn₂IrAl Heusler alloy**
ÖZDEMİR E. G., MERDAN Z.
MATERIALS RESEARCH EXPRESS, vol.6, no.3, 2019 (SCI-Expanded)
- XIX. **Structural and electronic properties of BiOF with two-dimensional layered structure under high pressure: Ab initio study**
Canpolat M., KÜRKÇÜ C., YAMCICIER C., MERDAN Z.
SOLID STATE COMMUNICATIONS, vol.288, pp.33-37, 2019 (SCI-Expanded)
- XX. **Structural phase transition and electronic properties of CaO under high pressure**
KÜRKÇÜ C., MERDAN Z., YAMCICIER C.
MATERIALS RESEARCH EXPRESS, vol.5, no.12, 2018 (SCI-Expanded)
- XXI. **Electrical characterization of two analogous Schottky contacts produced from N-substituted 1,8-naphthalimide**
Karagoz E., Varol S. F., Sayin S., MERDAN Z.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.20, no.48, pp.30502-30513, 2018 (SCI-Expanded)
- XXII. **Investigation of structural, half-metallic and elastic properties of a new full-Heusler compound- Ir₂MnSi**
Özdemir E. G., Eser E., Merdan Z.
CHINESE JOURNAL OF PHYSICS, vol.56, no.4, pp.1551-1558, 2018 (SCI-Expanded)
- XXIII. **Investigation of structural and electronic properties of beta-HgS: Molecular dynamics simulations**
KÜRKÇÜ C., Selgin A. L., MERDAN Z., YAMCICIER C., ÖZTÜRK H.
CHINESE JOURNAL OF PHYSICS, vol.56, no.3, pp.783-792, 2018 (SCI-Expanded)
- XXIV. **The Test of a New Critical Exponent (sic) by Using Ising Model on the Creutz Cellular Automaton**
MERDAN Z., Gokbel-Keklikoglu D.
ACTA PHYSICA POLONICA A, vol.133, no.5, pp.1200-1204, 2018 (SCI-Expanded)
- XXV. **Investigation of the structural and electronic properties of CdS under high pressure: an ab initio study**
Yamcicier C., MERDAN Z., Kurkcu C.
CANADIAN JOURNAL OF PHYSICS, vol.96, no.2, pp.216-224, 2018 (SCI-Expanded)
- XXVI. **Simulation of glioblastoma multiforme (GBM) tumor cells using Ising model on the Creutz Cellular Automaton**
Zuleyha A., Ziya M., Selcuk Y., Kemal O. M., Mesut T.
Physica A: Statistical Mechanics and its Applications, vol.486, pp.901-907, 2017 (SCI-Expanded)

- XXVII. **Synthesis of isoniazid substituted pyrene (PINHy), and investigation of its optical and electrochemical features as tunable/flexible OLEDs**
SAYIN S., Varol S. F., MERDAN Z., Eymur S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.17, pp.13094-13100, 2017 (SCI-Expanded)
- XXVIII. **Theoretical calculations of high-pressure phases of NiF₂: An ab initio constant-pressure study**
KÜRKÇÜ C., MERDAN Z., ÖZTÜRK H.
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A, vol.90, no.13, pp.2550-2555, 2016 (SCI-Expanded)
- XXIX. **The Finite-Size Scaling Relation for the Order-Parameter Probability Distribution of the Six-Dimensional Ising Model**
MERDAN Z., Karakus O.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.55, no.11, pp.4822-4829, 2016 (SCI-Expanded)
- XXX. **The Finite-Size Scaling Study of Five-Dimensional Ising Model**
MERDAN Z., Aras N., Kurkcu C.
ACTA PHYSICA POLONICA A, vol.129, no.6, pp.1100-1104, 2016 (SCI-Expanded)
- XXXI. **Pressure-induced phase transitions and structural properties of CoF₂: An ab-initio molecular dynamics study**
KÜRKÇÜ C., MERDAN Z., ÖZTÜRK H.
SOLID STATE COMMUNICATIONS, vol.231, pp.17-25, 2016 (SCI-Expanded)
- XXXII. **The Finite-Size Scaling Study of the Ising Model for the Fractals**
MERDAN Z., Bayirli M., Gunen A., Bulbul M. M.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.55, no.4, pp.2031-2039, 2016 (SCI-Expanded)
- XXXIII. **Optical performance of efficient blue/near UV nitropyridine-conjugated anthracene (NAMA) based light emitting diode**
Varol S. F., SAYIN S., Eymur S., MERDAN Z., Unal D.
ORGANIC ELECTRONICS, vol.31, pp.25-30, 2016 (SCI-Expanded)
- XXXIV. **The finite-size scaling study of four-dimensional Ising model in the presence of external magnetic field**
MERDAN Z., KÜRKÇÜ C., Ozturk M. K.
LOW TEMPERATURE PHYSICS, vol.40, no.12, pp.1058-1062, 2014 (SCI-Expanded)
- XXXV. **Current-conduction mechanisms in Au/n-CdTe Schottky solar cells in the wide temperature range**
Fiat S., MERDAN Z., Memmedli T.
PHYSICA B-CONDENSED MATTER, vol.407, no.13, pp.2560-2565, 2012 (SCI-Expanded)
- XXXVI. **Finite-size scaling relations for a four-dimensional Ising model on Creutz cellular automaton**
MERDAN Z., Guzelsoy E.
LOW TEMPERATURE PHYSICS, vol.37, no.6, pp.470-475, 2011 (SCI-Expanded)
- XXXVII. **The Simulation of the Two-Dimensional Ising Model on the Creutz Cellular Automaton for the Fractals Obtained by Using the Model of Diffusion-Limited Aggregation**
MERDAN Z., Bayirli M., Ozturk M. K.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.65, pp.705-710, 2010 (SCI-Expanded)
- XXXVIII. **The Finite-Size Scaling Study of the Specific Heat and the Binder Parameter of the Two-Dimensional Ising Model for the Fractals Obtained by Using the Model of Diffusion-Limited Aggregation**
Merdan Z., Bayirli M., Ozturk M. K.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.64, no.12, pp.849-854, 2009 (SCI-Expanded)
- XXXIX. **The effect of the increase of linear dimensions on exponents obtained by finite-size scaling relations for the four-dimensional Ising model on the Creutz cellular automaton**
Muelazimoglu G., Duran A., MERDAN Z., Gunen A.
MODERN PHYSICS LETTERS B, vol.22, no.13, pp.1329-1341, 2008 (SCI-Expanded)
- XL. **The finite-size scaling study of the specific heat and the binder parameter for the five-dimensional**

Ising model

Kalay M., MERDAN Z.

MODERN PHYSICS LETTERS B, vol.21, no.28, pp.1923-1931, 2007 (SCI-Expanded)

- XLII. **The effect of the number of simulations on the exponents obtained by finite-size scaling relations for the seven-dimensional Ising model on the Creutz cellular automaton**
MERDAN Z., Atille D.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.376, pp.327-336, 2007 (SCI-Expanded)
- XLIII. **The finite-size scaling study of the specific heat and the binder parameter for the 7-dimensional Ising model**
MERDAN Z., Atille D.
MODERN PHYSICS LETTERS B, vol.21, no.4, pp.215-224, 2007 (SCI-Expanded)
- XLIV. **The test of the finite-size scaling relations of the Ising models in seven and eight dimensions on the Creutz cellular automaton**
MERDAN Z., Duran A., Atille D., Mulazimoglu G., Gunen A.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.366, no.1, pp.265-272, 2006 (SCI-Expanded)
- XLV. **Dynamical finite-size scaling function of the four dimensional Ising model for Creutz algorithm**
MERDAN Z., Gunen A., Cavdar Ş.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.359, pp.415-422, 2006 (SCI-Expanded)
- XLVI. **Evaluation of generalized exponential integrals using multinomial expansion theorems**
Mamedov B., MERDAN Z., Askerov I.
JOURNAL OF MATHEMATICAL CHEMISTRY, vol.38, no.4, pp.695-700, 2005 (SCI-Expanded)
- XLVII. **Calculation of generalized elliptic type integrals using the binomial expansion theorem**
Mamedov B., Tapramaz R., MERDAN Z.
APPLIED MATHEMATICS AND COMPUTATION, vol.168, no.1, pp.333-341, 2005 (SCI-Expanded)
- XLVIII. **Computation of the fractal pattern in manganese dendrites**
MERDAN Z., Bayirli A.
CHINESE PHYSICS LETTERS, vol.22, no.8, pp.2112-2115, 2005 (SCI-Expanded)
- XLIX. **The effect of the increase of linear dimensions on exponents obtained by finite-size scaling relations for the six-dimensional Ising model on the Creutz cellular automaton**
MERDAN Z., Bayirli M.
APPLIED MATHEMATICS AND COMPUTATION, vol.167, no.1, pp.212-224, 2005 (SCI-Expanded)
- L. **Effect of the number of energy levels of a demon for the simulation of the four-dimensional Ising model on the Creutz cellular automaton**
MERDAN Z., Gunen A., Mulazimoglu G.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, vol.16, no.8, pp.1269-1278, 2005 (SCI-Expanded)
- L. **The finite-size scaling study of the specific heat and the Binder parameter for the six-dimensional Ising model**
MERDAN Z., Erdem R.
PHYSICS LETTERS A, vol.330, no.6, pp.403-407, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Analysis of the Structural, Electronic and Magnetic Properties of Pd₂FeTi**
Balmumcu F. I., MERDAN Z.
Gazi University Journal of Science, vol.36, no.1, pp.441-449, 2023 (Scopus)
- II. **Dielectrical parameters and relaxation of Al/NFT/p-Si schottky diode with frequency dependence**
Karagöz E., Fiat Varol S., Sayin S., MERDAN Z.
Sigma Journal of Engineering and Natural Sciences, vol.41, no.1, pp.84-92, 2023 (ESCI)
- III. **Güneş pilleri için ZnO'nun yapısal ve elektronik özelliklerinin incelenmesi: Ab-initio çalışması**
KÜRKÇÜ C., MERDAN Z.

Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, no.1, pp.1-12, 2018 (Peer-Reviewed Journal)

IV. Hidrojen depolama malzemeleri için MgH₂'nin yapısal ve elektronik özellikleri

KÜRKÇÜ C., MERDAN Z.

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.6, no.2, pp.451-461, 2018 (Peer-Reviewed Journal)

V. The Electronic and Magnetic Properties of New Full-Heusler Compounds: M₂IrSi (M=Ti, Cr and Mn)

MERDAN Z., ÖZDEMİR E. G.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.3, pp.940-952, 2018 (ESCI)

VI. FORMATION OF THE MANGANESE FLOWERS ON THE SURFACE OF THEMANGANESE ORE

BAYIRLI M., MERDAN Z.

Gazi university journal of science, 2004 (Peer-Reviewed Journal)

Books & Book Chapters

I. Optik Uygulamaları ve Akıl Yürütme

Merdan Z., Yılmaz Z. A., Yüksel İ., Mert V., Savaş M. A., Özpınar M.

Pegem Akademi, Ankara, 2019

Refereed Congress / Symposium Publications in Proceedings

I. The electronic, magnetic and half-metallic properties of new Ti₂RuTl full Heusler compound: An ab-initio investigation

GÜLEŞCİ KARTAL Y., ÖZDEMİR E. G., MERDAN Z.

International Conference on Advanced Materials Science Engineering and High Tech Devices Applications Exhibition (ICMATSE 2020), Ankara, Turkey, 2 - 04 October 2020

II. First Principle Studies of Structural, Electronic, Elastic Properties of Pd₂MnTl Full Heusler Compound

Fadime Irmak B., ÖZDEMİR E. G., MERDAN Z.

INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS SCIENCE & ENGINEERING AND HIGH TECH DEVICE APPLICATIONS, Ankara, Turkey, 02 October 2020

III. Half-Metal Predictions on Sc₂As Compound: A First Principles Calculations

ÖZDEMİR E. G., MERDAN Z.

Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019

IV. Theoretical Calculations of FeZrX (X= P, As, Sb and Bi) Half-Heusler Compounds

ÖZDEMİR E. G., MERDAN Z.

Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019

V. Simulation of Kidney Cancer Cells by Using Ising Model on the Creutz Cellular Automaton

MERDAN Z., GÖKBEL KEKLİKOĞLU D., TAŞTAN H.

Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 04 September 2019

VI. Simulation of Prostate Cancer Cells by Using Ising Model on the Creutz Cellular Automaton

GÖKBEL KEKLİKOĞLU D., MERDAN Z., DOĞRU M. T.

Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 04 September 2019

VII. Density functional investigations of structural and magnetic properties of full-Heusler alloy - Ti₂ReSi using GGA method

ÖZDEMİR E. G., MERDAN Z.

International Congress on the World of Technology and Advanced Materials, 21 - 23 September 2018

VIII. Structural phase transition and electronic properties of CdSe under high pressure

KÜRKÇÜ C., MERDAN Z., ÖZTÜRK H.

International Congress on the World of Technology and Advanced Materials, 21 - 23 September 2018

- IX. **The investigation of structural and electronic properties of CdS via local density approximation**
KÜRKCÜ C., MERDAN Z., ÖZTÜRK H.
International Congress on the World of Technology and Advanced Materials, 21 - 23 September 2018
- X. **The Structural Properties of Some Mercury Chalcogenides under high pressure**
KÜRKCÜ C., MERDAN Z., ÖZTÜRK H.
International Congress on the World of Technology and Advanced Materials, 21 - 23 September 2018
- XI. **Electronically, magnetically and elastically studies of Ti₂IrAl alloy**
ÖZDEMİR E. G., MERDAN Z.
International Congress on the World of Technology and Advanced Materials, 21 - 23 September 2018
- XII. **Half-Metallic Studies on Inverse Ti₂ReGe Full-Heusler Compound**
MERDAN Z., ÖZDEMİR E. G.
International Congress on the World of Technology and Advanced Materials, 21 - 23 September 2018
- XIII. **Theoretical Predictions of Ti₂ReSn Full-Heusler Compound Using Wien2k: Ab-Initio Calculations**
ÖZDEMİR E. G., MERDAN Z.
International Congress on the World of Technology and Advanced Materials, 21 - 23 September 2018
- XIV. **STRUCTURAL AND MORPHOLOGICAL CHARACTERISTICS OF Al/p-Si/Al, Al/N-F Nft/p-Si/Al and Al/N-T Nft/p-Si/Al SCHOTTKY BARRIER DIODES**
KARAGÖZ E., FİAT VAROL S., MERDAN Z., SAYIN S., öztürk m. k.
INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, 21 - 23 September 2018
- XV. **Frequency dependence of dielectric properties of Al/N-T Nft/p-Si/Al Structure**
KARAGÖZ E., FİAT VAROL S., MERDAN Z., SAYIN S., TATAROĞLU A.
INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, 21 - 23 September 2018
- XVI. **The Half-Metallic Property of Ti₂RePb Heusler Alloy: Ab Initio Calculations**
ÖZDEMİR E. G., MERDAN Z.
Turkish Physical Society 34th International Physics Congress, Bodrum/Muğla, Turkey, 5 - 09 September 2018
- XVII. **Ab-Initio Calculations of Ti₂IrTl full-Heusler Alloy**
Güleşçi Kartal Y., ÖZDEMİR E. G., MERDAN Z.
Turkish Physical Society 34th International Physics Congress, Bodrum/Muğla, Turkey, 5 - 09 September 2018
- XVIII. **First Principles Predictions on Structural, Electronic, Magnetic and Elastic Properties of Inverse Heusler Mn₂IrZ (Z=Al and Ge) Alloys**
ÖZDEMİR E. G., MERDAN Z.
Turkish Physical Society 34th International Physics Congress, Bodrum/Muğla, Turkey, 5 - 09 September 2018
- XIX. **Rectifying and Surface Enhancement of Highly-Crystalline Nitropyridine-Conjugated Anthracene Schottky Junctions**
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- XXIV. **First Principles Simulation of Pressure-Induced Phase Transition In BiOI: Structural Properties**
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XXXIX. THE FINITE SIZE SCALING STUDY OF THE ISING MODEL FOR THE FRACTALS

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Supported Projects

- MERDAN Z., Project Supported by Higher Education Institutions, Metal/Naftalimit/Si Schottky Diyotların Elektriksel ve Optik Özelliklerinin İncelenmesi, 2017 - 2018
- MERDAN Z., Project Supported by Higher Education Institutions, Tetragonal yapıdaki bazı matlockite-tipi bileşiklerin yapısal, elektronik, elastik, titreşim ve termodinamik özelliklerinin incelenmesi, 2016 - 2017
- MERDAN Z., Project Supported by Higher Education Institutions, Çinko Oksit (ZnO) Tabanlı Ultraviyole (UV) Işık Yayan Diyotların Elektriksel, Optik, Yapısal ve Morfolojik Özelliklerinin İncelenmesi, 2015 - 2016

Metrics

- Publication: 161
Citation (WoS): 403
Citation (Scopus): 402
H-Index (WoS): 13
H-Index (Scopus): 14

Non Academic Experience

- Gazi Üniversitesi Fen Fakültesi Fizik Böl.
Carnegie Mellon üniversitesi /USA
Kırıkkale Üniversitesi Fen Ed.Fak.Fizik Böl.
Kırıkkale Üniversitesi Fen Ed.Fak. Fizik Böl.
G.O.P Üniversitesi Fen Ed.Fak. Fizik Böl.
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M.E.B.