

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 Bölümü, 2011 - Continues

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

Gazi University, Fen Fakültesi, Fizik Bölümü, 2014 - Continues
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.Görkem(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., 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., The Investigation Of Structural And Electronic Properties Of Semiconductor Cdx (X = S, Se, Te, O) Compounds Under High Pressure, Doctorate, Ç.Yamçıçier(Student), 2019
MERDAN Z., Simulation Of Prostate Cancer Cells By Using Ising Model On The Creutz Cellular Automaton, Postgraduate, D.GÖKBEL(Student), 2019
MERDAN Z., Glioblastoma multiforme (GBM) tümör hücrelerinin ising modeli kullanılarak creutz cellular automaton ile simülasyonu, Doctorate, Z.ARTUÇ(Student), 2018
MERDAN Z., Simulation Of Glioblastoma Multiforme (Gbm) Tumor Cells Using Ising Model On The Creutz Cellular Automaton, Doctorate, Z.Artuç(Student), 2018
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., The Structural Phase Transformations Of Some Binary Compounds Under The High Pressure And Investigation Of Transform Mechanism, Doctorate, C.Kürkçü(Student), 2016
MERDAN Z., Bazı ikili bileşiklerde yüksek basınç altında yapısal faz dönüşümleri ve dönüşüm mekanizmasının incelenmesi, Doctorate, C.KÜRKCÜ(Student), 2016
MERDAN Z., Beş boyutlu Ising modelinde düzen parametresi ihtimaliyet dağılımı için sonlu örgü ölçekleme bağıntısı, Postgraduate, H.KIRAN(Student), 2012
MERDAN Z., Dört boyutlu Ising modelinin Creutz 'Cellular Automaton'ı ile simülasyonunda hassasiyetin artırılması, Postgraduate, E.SÖNMEZ(Student), 2010

MERDAN Z., Dış manyetik alan varlığında dört boyutlu ısıng modelinin creutz 'cellular automaton'ı ile simülasyonu, Postgraduate, C.KÜRKÇÜ(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"cellular automaton"ında incelenmesi, Postgraduate, D.ATİLLE(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **Electronic, magnetic and elastic calculations on half-metallic Heusler Ti_2RuTl compound**
Kartal Y. G. C., Ozdemir E. G., MERDAN Z.
PHILOSOPHICAL MAGAZINE, vol.102, no.2, pp.153-165, 2022 (SCI-Expanded)
- IV. **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)
- V. **Bridge constant and atom between theoretical and experimental magnetism in Ni_2MnSb 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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)

- XII. **Pressure-induced phase transitions, electronic, elastic and vibrational properties of zinc oxide under high pressure**
KÜRKCÜ C., MERDAN Z., Yamcicier C.
INDIAN JOURNAL OF PHYSICS, vol.93, no.8, pp.979-989, 2019 (SCI-Expanded)
- XIII. **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)
- XIV. **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**
Sarlı N., Ak F., Özdemir E. G., Saatçi B., Merdan Z.
PHYSICA B-CONDENSED MATTER, vol.560, pp.46-50, 2019 (SCI-Expanded)
- XV. **First-principles predictions on structural, electronic, magnetic and elastic properties of Mn_2IrAl Heusler alloy**
ÖZDEMİR E. G., MERDAN Z.
MATERIALS RESEARCH EXPRESS, vol.6, no.3, 2019 (SCI-Expanded)
- XVI. **Structural and electronic properties of $BiOF$ with two-dimensional layered structure under high pressure: Ab initio study**
Canpolat M., KÜRKCÜ C., Yamcicier C., MERDAN Z.
SOLID STATE COMMUNICATIONS, vol.288, pp.33-37, 2019 (SCI-Expanded)
- XVII. **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)
- XVIII. **Structural phase transition and electronic properties of CaO under high pressure**
KÜRKCÜ C., MERDAN Z., Yamcicier C.
MATERIALS RESEARCH EXPRESS, vol.5, no.12, 2018 (SCI-Expanded)
- XIX. **Investigation of structural, half-metallic and elastic properties of a new full-Heusler compound- Ir_2MnSi**
Özdemir E. G., Eser E., Merdan Z.
CHINESE JOURNAL OF PHYSICS, vol.56, no.4, pp.1551-1558, 2018 (SCI-Expanded)
- XX. **Investigation of structural and electronic properties of beta-HgS: Molecular dynamics simulations**
KÜRKCÜ C., Selgin A. L., MERDAN Z., Yamcicier C., ÖZTÜRK H.
CHINESE JOURNAL OF PHYSICS, vol.56, no.3, pp.783-792, 2018 (SCI-Expanded)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **Theoretical calculations of high-pressure phases of NiF₂: An ab initio constant-pressure study**
KÜRKCÜ C., MERDAN Z., ÖZTÜRK H.
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A, vol.90, no.13, pp.2550-2555, 2016 (SCI-Expanded)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **Pressure-induced phase transitions and structural properties of CoF₂: An ab-initio molecular dynamics study**
KÜRKCÜ C., MERDAN Z., ÖZTÜRK H.
SOLID STATE COMMUNICATIONS, vol.231, pp.17-25, 2016 (SCI-Expanded)
- XXXI. **The finite-size scaling study of four-dimensional Ising model in the presence of external magnetic field**
MERDAN Z., KÜRKCÜ C., Ozturk M. K.
LOW TEMPERATURE PHYSICS, vol.40, no.12, pp.1058-1062, 2014 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)

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

Articles Published in Other Journals

- I. **Güneş pilleri için ZnO'nun yapısal ve elektronik özelliklerinin incelenmesi: Ab-initio çalışması**
KÜRKCÜ C., MIRDAN Z.
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, no.1, pp.1-12, 2018 (Peer-Reviewed Journal)
- II. **Hidrojen depolama malzemeleri için MgH₂'nin yapısal ve elektronik özellikleri**
KÜRKCÜ C., MIRDAN Z.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.6, no.2, pp.451-461, 2018 (Peer-Reviewed Journal)
- III. **The Electronic and Magnetic Properties of New Full-Heusler Compounds: M₂IrSi (M=Ti, Cr and Mn)**
MIRDAN Z., ÖZDEMİR E. G.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.3, pp.940-952, 2018 (ESCI)
- IV. **FORMATION OF THE MANGANESE FLOWERS ON THE SURFACE OF THEMANGANESE ORE**

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 Ti_2RuTl 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 Pd_2MnTl 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 Sc_2As 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 - Ti_2ReSi 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**
KÜRKÇÜ 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**
KÜRKÇÜ 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 Ti_2IrAl 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**
 karagöz e., FİAT VAROL S., SAYIN S., MERDAN Z., Uzun K.
 The Eighth International Advanced Technologies Symposium, 19 - 22 October 2017
- XX. **The structural and electronic properties of CdS under high hydrostatic pressure via parrinello-rahman method**
 KÜRKCÜ C., MERDAN Z., YAMÇIÇIER S., AL S., ÖZTÜRK H., yamçıçier ç.
 Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, 6 - 10 September 2017
- XXI. **First Principles Study on Electronic and Magnetic Properties of Full-Heusler Compounds- M₂IrSi(M=Ti, Cr and Mn)**
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 TÜRK FİZİK DERNEĞİ 33. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 6 - 10 September 2017
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