

Prof. ZİYA MERDAN

Personal Information

Birthyear: 1967

Place of birth: Kırşehir

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Education Information

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

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

Under Graduate, 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

Post Graduate, 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, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2011 - 2011

Associate Professor, Kirikkale University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2008 - 2011

Associate Professor, Tokat Gaziosmanpaşa University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2006 - 2008

Assistant Professor, Tokat Gaziosmanpaşa University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2004 - 2006

Research Assistant, Tokat Gaziosmanpaşa University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1997 - 2004

PROFESSIONAL EXPERIENCE

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

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

Deputy Head of Department, Gazi University, Fen Fakültesi, Fizik Bölümü, 2011 - 2014

Erasmus Coordinator, Gazi University, Fen Fakültesi, 2012 - 2013

Head of Department, Kirikkale University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2009 - 2011

Farabi Coordinator, Kirikkale University, Fen-Edebiyat Fakültesi, 2009 - 2011

Deputy Head of Department, Tokat Gaziosmanpaşa University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2004 - 2008

Head of Department, Tokat Gaziosmanpaşa University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2005 - 2005

Courses

FİZİK2, Under Graduate, 2020 - 2021

Fizik I, Under Graduate, 2019 - 2020

İleri İstatistik I, Doctorate, 2019 - 2020

Advising Theses

MERDAN Z., Yedi boyutlu Ising modelinde düzen parametresi ihtimaliyet dağılımı için sonlu örgü ölçekleme bağıntısı, Post Graduate, S.DOĞRUER(Student), 2020

MERDAN Z., Prostat kanser hücrelerinin Ising modeli kullanılarak creutzcellular automaton ile simülasyonu, Post Graduate, 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., The Investigation Of Structural And Electronic Properties Of Semiconductor Cdx (X = S, Se, Te, O) Compounds Under High Pressure, Ç.Yamçıçier(Student), 2019

MERDAN Z., Simulation Of Glioblastoma Multiforme (Gbm) Tumor Cells Using Ising Model On The Creutz Cellular Automaton, Z.Artuç(Student), 2018

MERDAN Z., The Simulation Of Non-Small Cell Lung Cancer (Nslc) Tumorous Cells Using Ising Model With Creutz Cellular Automaton, Post Graduate, 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., Fabrication Of Schottky Diode With Naphthalimide Having Different Functional Groups And Investigation Of Its Electrical Properties, Post Graduate, E.KARAGÖZ(Student), 2018

MERDAN Z., The Structural Phase Transformations Of Some Binary Compounds Under The High Pressure And Investigation Of Transform Mechanism, 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, Post Graduate, H.KIRAN(Student), 2012

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

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

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

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

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

- I. **Bridge constant and atom between theoretical and experimental magnetism in Ni₂MnSb Heusler alloy: DFT and EFT studies**
SAATÇI B., Sarli N., ÖZDEMİR E. G. , MERDAN Z.
PHILOSOPHICAL MAGAZINE, 2020 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **A study of structural, electronic, elastic, phonon properties, and transition mechanism of wurtzite CdTe under high pressure**
Yamcicier C., KÜRKCÜ C., MERDAN Z.
SOLID STATE SCIENCES, vol.105, 2020 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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**
ÖZDEMİR E. G. , MERDAN Z.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.491, 2019 (Journal Indexed in SCI)
- VI. **Half-metal calculations of CoZrGe half-Heusler compound by using generalized gradient approximation (GGA) and modified Becke-Johnson (mBJ) methods**
ÖZDEMİR E. G. , MERDAN Z.
MATERIALS RESEARCH EXPRESS, vol.6, no.11, 2019 (Journal Indexed in SCI)
- VII. **First-principles calculations on half-metal ferromagnetic results of VZrAs and VZrSb half-heusler compounds and Al_{1-x}MxAs (M = Co, Fe and x=0.0625, 0.125, 0.25) diluted magnetic semiconductors**
ÖZDEMİR E. G. , MERDAN Z.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.807, 2019 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **Theoretical calculations on half-metallic results properties of FeZrX (X = P, As, Sb and Bi) half-Heusler compounds: density functional theory**
ÖZDEMİR E. G. , MERDAN Z.
MATERIALS RESEARCH EXPRESS, vol.6, no.8, 2019 (Journal Indexed in SCI)
- X. **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., ÖZDEMİR E. G. , SAATÇI B., MERDAN Z.
PHYSICA B-CONDENSED MATTER, vol.560, pp.46-50, 2019 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)

- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **Investigation of structural, half-metallic and elastic properties of a new full-Heusler compound-Ir₂MnSi**
ÖZDEMİR E. G. , Eser E., MERDAN Z.
CHINESE JOURNAL OF PHYSICS, vol.56, no.4, pp.1551-1558, 2018 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI Expanded)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **The Finite-Size Scaling Study of the Ising Model for the Fractals**
MERDAN Z., Bayirli M., Gunen A., Bulbul M.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.55, no.4, pp.2031-2039, 2016 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)

- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)
- XXXI. **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 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **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 (Journal Indexed in SCI)
- XXXVII. **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 (Journal Indexed in SCI)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **Computation of the fractal pattern in manganese dendrites**

MERDAN Z., Bayirli A.

CHINESE PHYSICS LETTERS, vol.22, no.8, pp.2112-2115, 2005 (Journal Indexed in SCI)

- XL1. **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 (Journal Indexed in SCI)

- XLII. **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 (Journal Indexed in SCI)

- XLIII. **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 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **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 (Other Refereed National Journals)

- II. **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 (Other Refereed National Journals)

- III. **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 (Journal Indexed in ESCI)

- IV. **FORMATION OF THE MANGANESE FLOWERS ON THE SURFACE OF THEMANGANESE ORE**

BAYIRLI M., MERDAN Z.

Gazi university journal of science, 2004 (Other Refereed National Journals)

Books & Book Chapters

- I. **Optik Uygulamaları ve Akıl Yürütme**

MERDAN Z., YILMAZ Z. A. , YÜKSEL İ., MERT V., SAVAŞ M. A. , ÖZPINAR 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**

GÜLEŞÇİ 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**
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 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**
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 Kongres, 6 - 10 September 2017
- XXI. **First Principles Study on Electronic and Magnetic Properties of Full-Heusler Compounds-M₂IrSi(M=Ti, Cr and Mn)**
MERDAN Z., ÖZDEMİR E. G.
TÜRK FİZİK DERNEĞİ 33. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 6 - 10 September 2017
- XXII. **Tunable ZnO Deep-UV light Emitters With Pressure Variable**
Ünal D., FİAT VAROL S., MERDAN Z.
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, 6 - 10 September 2017
- XXIII. **Investigation of Half-Metallicity of Full-Heusler Compound - Ir₂MnSi**
ÖZDEMİR E. G. , MERDAN Z., ESER E.
TÜRK FİZİK DERNEĞİ 33. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 6 - 10 September 2017
- XXIV. **First Principles Simulation of Pressure-Induced Phase Transition In BiOI: Structural Properties**
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