

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 (Yl) (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 (Yl) (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

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

Kırıkkale 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': Transition Metals, Z: III-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., 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 (Nsclc) 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., Sarlı 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 Ni0.5Co1.5MnSb 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 automata**
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 FUR 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 FUR 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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **Dynamical finite-size scaling function of the four dimensional Ising model for Creutz algorithm**
 MERDAN Z., Gunen A., Cavdar S.
 PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.359, pp.415-422, 2006 (SCI-Expanded)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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 Pd₂FeTl**
 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 THE MANGANESE 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., 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 underhigh pressure**
KÜRKÇÜ C., MERDAN Z., ÖZTÜRK H.
International Congress on the World of Technology and Advanced Materials, 21 - 23 September 2018
- XI. **Electrically, magnetically and elastically studies ofTi₂IrAl 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., Özdemir 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 CHARACTERİSTİCS OF Al/p-Si/Al, Al/N-F Nft/p-Si/Al and Al/N-T Nft/p-Si/Al SCHOTTKY BARRİER DİODES**
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., Özdemir 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**
KÜRKÇÜ 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., Özdemir 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**
CANPOLAT M., MERDAN Z., YAMÇIÇIER Ç., KÜRKÇÜ C., ÖZDEMİR E. G.
TÜRK FİZİK DERNEĞİ 33. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 6 - 10 September 2017
- XXV. **The Test of a New Critical Exponent Q By Using Ising Model On The Creutz Cellular Automaton**
MERDAN Z., GÖKBEL KEKLİKOĞLU D.
Turkish Physical Society 33th International Physics Congress, Muğla, Turkey, 06 September 2017
- XXVI. **Spintronic, Electronic and Magnetic Properties of the Ti₂IrAl Full-Heusler Compound by Density Functional Theory**
MERDAN Z., ÖZDEMİR E. G.
TÜRK FİZİK DERNEĞİ 33. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 6 - 10 September 2017
- XXVII. **The Test of A New Critical Exponent Q By Using Ising Model On The Creytz Cellular Automation**
MERDAN Z., GÖKBEL KEKLİKOĞLU D.
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, 6 September - 10 October 2017
- XXVIII. **Structural Phase Transition of Cadmium Sulfide Under High Pressure Via The Conjugate Gradient Method**
YAMÇIÇIER Ç., MERDAN Z., YAMÇIÇIER S., KÜRKÇÜ C., ÖZDEMİR E. G.
TÜRK FİZİK DERNEĞİ 33. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 6 - 10 September 2017
- XXIX. **Investigation of Electrical and Optical Properties of ZnO Based Blue Light Emitting Diodes**
Arslan E., FİAT VAROL S., MERDAN Z.
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, 6 September - 10 October 2017
- XXX. **Structural And Electronic Properties of Zirconium Oxide Under Pressure**
YAMÇIÇIER Ç., MERDAN Z., YAMÇIÇIER S., KÜRKÇÜ C., ÖZDEMİR E. G.
TÜRK FİZİK DERNEĞİ 33. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 6 - 10 September 2017
- XXXI. **An Ab Initio Study on Half-Metallic States and Magnetic Properties of Mn₂IrAl And V₂IrAl Alloys**
ÖZDEMİR E. G., MERDAN Z.
TÜRK FİZİK DERNEĞİ 33. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 6 - 10 September 2017
- XXXII. **Investigation of Structural And Electronic Properties of HgS.**
KÜRKÇÜ C., MERDAN Z., ÖZTÜRK H., YAMÇIÇIER S.
III. INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), 3 - 07 May 2017
- XXXIII. **A Dft Study on Structural Properties of HgSe under High Pressure**
KÜRKÇÜ C., MERDAN Z., AL S., YAMÇIÇIER S., ÖZTÜRK H.
III. INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, 3 - 07 May 2017
- XXXIV. **Investigation of structural and electronic properties of Yttrium III Hydride under high hydrostatic pressure**
KÜRKÇÜ C., MERDAN Z., ÖZTÜRK H.
2nd International Congress on the World of Technology and AdvancedMaterials-WITAM 2016, 28 September - 02 October 2016
- XXXV. **Nanoscale ZnO Enhanced Si heterojunction Pure stable blue light emitting diode**
FİAT VAROL S., Kompitsas m., Ünal d., MERDAN Z., Manolakos d., Koralli p.
VI. International symposium on transparent conductive materials, 9 - 13 October 2016
- XXXVI. **pressure induced phase transition of wurtzite ZnO An ab initio molecular dynamics study**
yamçıçier ç., MERDAN Z., YAMÇIÇIER S.
2nd International Congress on the World of Technology and Advanced Materials-WITAM 2016, 28 September - 02 October 2016
- XXXVII. **Investigation on structural properties of ZnO under high pressure a first principles study**
MERDAN Z., yamçıçier ç., KÜRKÇÜ C., YAMÇIÇIER S.
2nd International Congress on the World of Technology and Advanced Materials-WITAM 2016, 28 September - 02 October 2016
- XXXVIII. **OPTICAL PERFORMANCE OF EFFICIENTBLUE NEAR UV NITROPYRIDINE CONJUGATEDANTHRAZENE NAMA BASED LIGHT EMITTINGDIODE**

- Ünal D., FİAT VAROL S., SAYIN S., EYMUR S., MERDAN Z.
Turkish Phisical Society 32nd International physics Congress, 6 - 09 September 2016
- XXXIX. **THE FINITE SIZE SCALING STUDY OF THE ISING MODEL FOR THE FRACTALS**
MERDAN Z., BAYIRLI M., GÜNEN A., BÜLBÜL M. M.
Turkish Physical Society 32nd international Physics Congress, 6 - 09 September 2016
- XL. **INVESTIGATION OF STRUCTURAL AND ELECTRONIC PROPERTIES OF BN COMPOUND UNDERHIGH PRESSURE AN AB INITIO MOLECULAR DYNAMICS STUDY**
KÜRKÇÜ C., MERDAN Z., ÖZTÜRK H.
Turkish Physical Society 32nd international Physics Congress, 6 - 09 September 2016
- XLI. **PRESSURE INDUCED PHASE TRANSITION ANDSTRUCTURAL PROPERTIES OF BiOI**
canpolat m., MERDAN Z., KÜRKÇÜ C., yamçıçier ç.
Turkish Phisical Society 32nd International physics Congress, 6 - 09 September 2016
- XLII. **The simulation of nsclc non small cell lung cancer tumorious cells using ising model with creutz cellular automation**
Yeşiltaş S., MERDAN Z., ze A., ÖZTÜRK M., tez m.
Turkish Physical Society 32nd international physics congress, 6 - 09 September 2016
- XLIII. **TRANSFORMATION OF PANCREATIC CANCERTHROUGH ENTROPY**
MERDAN Z., Tez M., hacıoğlu A., Öztekin N.
Turkish Phisical Society 32nd International physics Congress, 6 - 09 September 2016
- XLIV. **THE SIMULATION OF GLIOBLASTOMA MULTIFORME GBM TUMOR CELLS USING ISINGMODEL ON THE CREUTZ CELLULARAUTOMATON**
Yeşiltaş S., MERDAN Z., Artuç Z., ÖZTÜRK M., Tez M.
Turkish Phisical Society 32nd International physics Congress, 6 - 09 September 2016
- XLV. **FIRST PRINCIPLES STUDY OF STRUCTURAL PROPERTIES OF CADMIUM OXIDE UNDER HIGHPRESSURE**
Yamçıçier Ç., MERDAN Z., YAMÇIÇIER S.
Turkish Phisical Society 32nd International physics Congress, 6 - 09 September 2016
- XLVI. **STRUCTURAL PHASE TRANSFORMATION OF CDSE AN AB INITIO CONSTANT PRESSURESTUDY**
Yamçıçier Ç., MERDAN Z., YAMÇIÇIER S.
Turkish Phisical Society 32nd International physics Congress, 6 - 09 September 2016
- XLVII. **THE SIMULATION OF NSCLC NON SMALL CELL LUNG CANCER TUMORIOUS CELLS USINGISING MODEL WITH CREUTZ CELLULAR AUTOMATON**
Yeşiltaş s., MERDAN Z., Artuç Z., ÖZTÜRK M., TEZ M.
Turkish Physical Society 32nd international Physics Congress, 6 - 09 September 2016
- XLVIII. **TUNABLE ZNO DEEP UV LIGHT EMITTERS WITHHIGH LASER FLUENCE**
Ünal D., FİAT VAROL S., MERDAN Z., Korallı P., Kompitsas M.
Turkish Phisical Society 32nd International physics Congress, 6 - 09 September 2016
- XLIX. **investigation of structural and electronic properties of ZnO a first principles study**
yamçıçier ç., MERDAN Z., YAMÇIÇIER S.
VII International conference for young scients, 6 - 10 June 2016
- L. **Basillus Subtilis Bakterisinin Oluşturduğu Koloni Simulasyonları**
BAYIRLI M., MERDAN Z., KALAY M., GÜNEN A.
Türk Fizik Derneği 22. Fizik Kongresi, Turkey, 14 - 17 September 2004
- LI. **En Küçük Kareler Yöntemi Kullanılarak Mangan Dentrit Gruplarının İncelenmesi**
BAYIRLI M., MERDAN Z., KALAY M., GÜNEN A.
Türk Fizik Derneği 22. Fizik Kongresi, Turkey, 14 - 17 September 2004
- LII. **Altı Boyutlu Ising Modelinin Creutz Cellular Automaton ında Simülasyonu**
MERDAN Z., Aktekin N.
Türk Fizik Derneği 21. Fizik Kongresi, Turkey, 11 - 14 September 2002
- LIII. **AB INITIO MOLECULAR DYNAMICS STUDY OF STRUCTURAL PROPERTIES OF FeF₂ AS A FUNCTION OF PRESSURE**
KÜRKÇÜ C., MERDAN Z., ÖZTÜRK H., YAMÇIÇIER S., YAMÇIÇIER Ç., KÜRKÇÜ C.

1st International Turkic World Conference on Chemical Sciences and Technologies, Sarajevo, Bosnia And Herzegovina, 27 October - 01 November 2015

- LIV. **The Finite size scaling relation for the order parameter probability distribution of the six dimensional ising model**

MERDAN Z., karakuş ö.

International conference "Thermophysical and mechanical properties of advanced materials" and 4th Rostocker international symposium: "Thermophysical properties for technical thermodynamics", Baku, Azerbaijan, 17 - 18 September 2015

- LV. **Theoretical calculations of high pressure phases of CoF₂ An ab initio constant pressure study**

KÜRKÜ C., MERDAN Z., ÖZTÜRK H.

2015 IUCr High-Pressure Workshop, Campinas, Brazil, 12 - 15 September 2015

- LVI. **The Monoclinic Phase OfNiF₂ An Ab Initio Constant Pressure Study**

KÜRKÜ C., MERDAN Z., ÖZTÜRK H., YAMÇIÇIER S., YAMÇIÇIER Ç., KÜRKÜ C.

9th InternationalPhysics Conference Of The Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015

- LVII. **First Principles Study OfStructural Properties Of CoF₂ At High Pressure**

KÜRKÜ C., MERDAN Z., ÖZTÜRK H., YAMÇIÇIER S., YAMÇIÇIER Ç., KÜRKÜ C.

9.International Physics Conference Of The Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015

- LVIII. **Phase Transition AndStructural Properties Of CrO₂ Compound An Ab Initio MolecularDynamics Study**

KÜRKÜ C., MERDAN Z., ÖZTÜRK H., YAMÇIÇIER S., YAMÇIÇIER Ç., KÜRKÜ C.

9th International Physics Conference Of The Balkan PhysicalUnion, İstanbul, Turkey, 24 - 27 August 2015

- LIX. **Enhancement with High Oxygen Pressure of ZnO Deep UV Light Emitters with AlN Server Layer**

FİAT VAROL S., MERDAN Z., Yilmaz D., Panagiota K., Michael K.

International Semiconductor Science and Technology Conference 2015, AYDIN-Kuşadası, Turkey, 11 - 13 May 2015

- LX. **Pressure induced structural phase transformation in antiferromagnetic NiF₂**

KÜRKÜ C., ÖZTÜRK H., MERDAN Z.

1st International Conference on OrganicElectronic Material Technologies, Elazığ, Turkey, 25 March - 28 August 2015

- LXI. **Beş boyutlu Ising modelinde L 4 örgüsü için düzen parametresi ihtimaliyet dağılımı**

MERDAN Z., Kiran H., ÖZTÜRK M.

ikinci bozok bilim çalıştáy, Yozgat, Turkey, 21 - 23 April 2011

- LXII. **The effect of the number of simulations on the exponents obtained by finite size scaling relations of the order parameter and the magnetic susceptibility fort he four dimensional Ising model on the creutz cellular automaton**

MERDAN Z., GÜZELSOY E.

27. Uluslararası Fizik Kongresi, İstanbul, Turkey, 14 - 17 September 2010

- LXIII. **Dört Boyutlu Ising Modelin Düzen Parametresi İhtimaliyet Dağılımı İçin Sonlu Örgü Ölçekleme Bağıntısı**

MÜLAZIMOĞLU KIZILIRMAK G., DURAN A., MERDAN Z., GÜNEN A., KUTLU B.

26. Uluslararası Fizik Kongresi, Muğla, Turkey, 24 - 27 September 2009

- LXIV. **The Finite Size Scaling Study Of The Magnetic Susceptibility And The Order Parameter For The Five Dimensional Ising Model In The Presence Of An External Magnetic Field On The Creutz Cellular Automaton**

MERDAN Z., ARAS N., ÖZTÜRK M., GÜNEN A.

26. Uluslararası Fizik Kongresi, Muğla, Turkey, 24 - 27 September 2009

- LXV. **The Finite Size Scaling Study Of The Specific Heat And The Binder Parameter For The Five Dimensional Ising Model In The Presence Of An External Magnetic Field On The Creutz Cellular Automaton**

MERDAN Z., ARAS N., GÜNEN A.

26. Uluslararası Fizik Kongresi, Muğla, Turkey, 24 - 27 September 2009

- LXVI. **A Numeric Application using diffusion limited aggregation model for the manganese dendrites**
BAYIRLI M., MERDAN Z.
26. Uluslararası Fizik Kongresi, Muğla, Turkey, 24 - 27 September 2009
- LXVII. **Simulation of the four dimensional Ising model in the presence of an external magnetic field on the creutz cellular automaton**
KÜRKÇÜ C., MERDAN Z., ÖZTÜRK M., GÜNEN A.
26. Uluslararası Fizik Kongresi, Muğla, Turkey, 24 - 27 September 2009
- LXVIII. **Au n CdTe Güneş Pillerinde Engel Yüksekliğinin Geniş Bir Sıcaklık Aralığında İncelenmesi**
FİAT VAROL S., MERDAN Z.
yoğun madde fiziği 15, Ankara, Turkey, 07 November 2008
- LXIX. **The Role of Interface states and Series Resistance on the Current Voltage I V Characteristics of Au n CdTe Solar cells**
FİAT VAROL S., MERDAN Z., ALTINDAL Ş., Mammadov T.
25. Uluslararası Fizik Kongresi, 25 - 29 August 2008
- LXX. **Frequency and Voltage Dependent series resistance profile in Au n CdTe Solar cells**
FİAT VAROL S., MERDAN Z., ALTINDAL Ş., Mammadov T.
25. Uluslararası Fizik Kongresi, Bodrum, Turkey, 25 - 29 August 2008
- LXXI. **The Finite Size Scaling Study Of The Order Parameter And The Magnetic Susceptibility For The Four Dimensional Ising Model In The Presence Of An External Magnetic Field On The Creutz Cellular Automaton**
MERDAN Z., ÖZTÜRK M., KÜRKÇÜ C., GÜNEN A.
15. Uluslar Arası İstatistik Fizik Günleri, 19 - 21 June 2008
- LXXII. **Monte Carlo Simulation of the Pattern Formations on the Uniform Subtract Surface**
BAYIRLI M., MERDAN Z.
Condensed Matter Phsics Conference of Balkan Countries, Muğla, Turkey, 26 - 28 May 2008
- LXXIII. **The finite size scaling study of the Binder parameter for the eight dimensional**
DURAN A., MÜLAZIMOĞLU KIZILIRMAK G., MERDAN Z., GÜNEN A.
Condensed Matter Phsics Conference of Balkan Countries, Muğla, Turkey, 26 - 28 May 2008
- LXXIV. **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., ÖZTÜRK M., ÜNAL D.
Condensed Matter Phsics Conference of Balkan Countries, Muğla, Turkey, 26 - 28 May 2008
- LXXV. **The effect of the number of energy levels of a demon for the simulation of the four dimensional Ising model with the lattice size L 24 on the creutz cellular automaton**
MÜLAZIMOĞLU KIZILIRMAK G., DURAN A., MERDAN Z., GÜNEN A.
Condensed Matter Phsics Conference of Balkan Countries, Muğla, Turkey, 26 - 28 May 2008
- LXXVI. **The finite size scaling study of the specific heat for the four dimensional Ising model in the presence of an external magnetic field on the creutz cellular automaton**
MERDAN Z., ÖZTÜRK M., KÜRKÇÜ C., GÜNEN A.
Condensed Matter Phsics Conference of Balkan Countries, Muğla, Turkey, 26 - 28 May 2008
- LXXVII. **Dört Boyutlu Ising Modelinin 24 34 ve 24 44 örgüsünde Creutz Cellular Automaton ile İncelenmesi**
MÜLAZIMOĞLU KIZILIRMAK G., DURAN A., MERDAN Z., GÜNEN A.
24th International Physics Congress, 28 - 31 August 2007
- LXXVIII. **Mangan Küme Grupları Oluşum Mekanızmasını Monte Carlo Simülasyonları Kullanılarak İncelenmesi**
BAYIRLI M., MERDAN Z.
24th International Physics Congress, Malatya, Turkey, 28 - 31 August 2007
- LXXIX. **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., BAYIRLI M., GÜNEN A.
24th International Physics Congress, 28 - 31 August 2007
- LXXX. **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**
MÜLAZIMOĞLU KIZILIRMAK G., KALAY M., MERDAN Z., GÜNEN A.
24th International Physics Congress, 28 - 31 August 2007
- LXXXI. **The Study Of The Four Dimensional Ising Model For The Lattices 24 34 And 24 44 On The Creutz Cellular Automaton**
MÜLAZIMOĞLU KIZILIRMAK G., DURAN A., MERDAN Z., GÜNEN A., T S.
Balkan Physics Letters, 24th International Physics Congress, Antalya, Turkey, 28 - 31 August 2007
- LXXXII. **Dış manyetik alan varlığında dört boyutlu Ising modelinin Creutz Cellular Automaton ile simülasyonu**
MERDAN Z., işler D., ÖZTÜRK M., GÜNEN A.
13. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 3 - 05 October 2006
- LXXXIII. **Dört boyutlu Ising modelinin creutz cellular automaton ile simülasyonunda örgü boyutunu artırmanın sonlu örgü ölçekte denkleminde elde edilen kritik üsler üzerine etkisi**
MÜLAZIMOĞLU KIZILIRMAK G., DURAN A., MERDAN Z., GÜNEN A.
13. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 03 October 2006
- LXXXIV. **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., Atilla D., MÜLAZIMOĞLU KIZILIRMAK G., GÜNEN A.
12. Uluslar Arası İstatistik Fizik Günleri, 6 - 08 July 2006
- LXXXV. **The finite size scaling study of the specific heat and the Binder parameter for the five dimensional Ising model**
MERDAN Z., KALAY M.
Türk Fizik Derneği 23. Fizik Kongresi, 13 - 16 September 2005
- LXXXVI. **The finite size scaling study of the specific heat and the Binder parameter for the seven dimensional Ising model**
MERDAN Z., Atilla D.
Türk Fizik Derneği 23. Fizik Kongresi, 13 - 16 September 2005
- LXXXVII. **Sekiz Boyutlu Ising Modelinin Creutz Cellular Automaton ında İncelenmesi**
DURAN A., MERDAN Z., MÜLAZIMOĞLU KIZILIRMAK G., GÜNEN A.
Türk Fizik Derneği 23. Fizik Kongresi, 13 - 16 September 2005
- LXXXVIII. **Dynamical finite size scaling function of the four dimensional Ising model for Creutz algorithm**
MERDAN Z., GÜNEN A., ÇAVDAR Ş.
12. Uluslar Arası İstatistik Fizik Günleri, 30 June - 02 July 2005
- LXXXIX. **Dört Boyutlu Ising Modelinin Örgüsündeki Creutz Cellular Automaton u ile Simulasyonda Monte Carlo Zaman Adımının Statik Kritik Üsler Üzerine Etkisi**
yıldız s., MERDAN Z., GÜNEN A.
Türk Fizik Derneği 22. Fizik Kongresi, Turkey, 14 - 17 September 2004
- XC. **Sekiz Boyutlu Ising Modelinin Örgüsündeki Creutz Cellular Automaton u ile Simulasyonunda Monte Carlo Zaman Adımının Kritik Sıcaklık Üzerine Etkisi**
DURAN A., MERDAN Z., GÜNEN A.
Türk Fizik Derneği 22. Fizik Kongresi, Turkey, 14 - 17 September 2004
- XCI. **Altı Boyutlu Ising Modelinin Creutz Cellular Automaton u ile Simulasyonunda Doğrusal Boyutun Artmasının Sonlu Örgü Ölçekleme Denkleminden Elde Edilen Üsler Üzerine Etkisi**
MERDAN Z., KALAY M., BAYIRLI M., GÜNEN A.
Türk Fizik Derneği 22. Fizik Kongresi, Turkey, 14 - 17 September 2004
- XCII. **Doğrusal Boyutlarında Manyetizasyon ve Binder Parametresinin Beş Boyutlu Ising Modelinin Creutz Cellular Automaton unda Simulasyonu ile İncelenmesi**
KALAY M., MERDAN Z., BAYIRLI M.
Türk Fizik Derneği 22. Fizik Kongresi, Turkey, 14 - 17 September 2004
- XCIII. **Elementler Bölgesinde Oranlarının Deneysel ve Teorik Değerleri Üzerine Bir Çalışma**
MERDAN Z., Tan M.
3.International Advanced Tecnologies Symposium, 18 - 20 August 2003

- XCIV. Study of Six Dimensional Ising Model on The Creutz Cellular Automaton**
MERDAN Z., BAYIRLI M.
10. Uluslar Arası İstatistik Fizik Günleri, 3 - 04 July 2003
- XCV. The Effect of The Size of The Seed Particles in The Two Dimensional Space**
BAYIRLI M., MERDAN Z., Aktekin N.
10. Uluslar Arası İstatistik Fizik Günleri, 3 - 04 July 2003
- XCVI. Study of Four Dimensional Ising Model on The Creutz Cellular Automaton**
MERDAN Z., Boyacıoğlu B., GÜNER A.
10. Uluslar Arası İstatistik Fizik Günleri, İstanbul, Turkey, 3 - 04 July 2003

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.
G.O.P Üniversitesi Fen Ed.Fak. Fizik Böl.
G.O.P Üniversitesi Fen Ed.Fak. Fizik Böl.
G.O.P Üniversitesi Fen Ed.Fak. Fizik Böl.
M.E.B.