

Office Phone: [+90 312 202 1266](tel:+903122021266)

Email: yasemin@gazi.edu.tr

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

Address: yasemin@gazi.edu.tr

International Researcher IDs

ORCID: 0000-0003-1796-0270

Yoksis Researcher ID: 15298

Education Information

- I. Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1996 - 2000
- II. Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 1993 - 1996
- III. Undergraduate, Gazi University, Fen-Edebiyat Fakültesi, Fizik Pr., Turkey 1989 - 1993

Foreign Languages

- I. English, B2 Upper Intermediate

Research Areas

Physics, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

- I. Professor, Gazi University, Fen Fakültesi, Fizik, 2014 - Continues
- II. Assistant Professor, Gazi University, Fen Fakültesi, Fizik, 2003 - 2008
- III. Research Assistant, Gazi University, Fen Fakültesi, Fizik, 1994 - 2003

Advising Theses

- I. ÇİFTÇİ Y., The Investigation Of Hydrogen Storage On Some Light Elements Decorated Two Dimensional Carbon Allotropes Using Ab-Initio Methods, Doctorate, İ.ALP(Student), 2019
- II. ÇİFTÇİ Y., LuXO₃ (X=Al, Ga, In) perovskit bileşiklerinin temel fiziksel özelliklerinin ab initio yöntemlerle incelenmesi, Postgraduate, G.SÜRÜCÜ(Student), 2018
- III. ÇİFTÇİ Y., Bazı AIBIVC₂V tipinde yarıiletken kalkopiritlerin temel fiziksel özelliklerinin ab-initio metot ile incelenmesi, Doctorate, B.KOÇAK(Student), 2016
- IV. ÇİFTÇİ Y., Bazı ikili ve/veya üçlü alaşımların temel fiziksel özelliklerinin yoğunluk fonksiyoneli teorisi ile incelenmesi, Doctorate, Y.MOĞULKOÇ(Student), 2013
- V. ÇİFTÇİ Y., THE INVESTIGATION SOME THE STRUCTURAL, ELECTRONIC AND ELASTIC PROPERTIES OF ThX (X =N, As, P, Sb) BY AB INITIO METHOD, Postgraduate, S.ARSLAN(Student), 2008
- VI. ÇİFTÇİ Y., STRUCTURAL PHASE TRANSITIONS AND ELASTIC STABILITY WITH EMBEDDED ATOM METHOD, Postgraduate, R.YİĞİTER(Student), 2007

- VII. ÇİFTÇİ Y., Embedded-atom modeli ile yapısal faz dönüşümleri ve elastik kararlılık, Postgraduate, R.YİĞİTER(Student), 2007

Jury Memberships

- I. Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, University of Engineering and Technology, September, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Understanding the pressure effect on the physical properties of half-Heusler semiconductor LiCaX (X = As, Sb, N) compounds from Ab-initio calculations**
ÇİFTÇİ Y., Kocak B., Ateser E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.186, 2025 (SCI-Expanded)
- II. **Investigation of the structural, mechanical, anisotropic, thermal conductivity, electronic, and phonon properties of RhTiZ(Z: As, sb) half heusler compounds under high pressure: A DFT study**
KARS DURUKAN İ., ÇİFTÇİ Y.
Physica B: Condensed Matter, vol.694, 2024 (SCI-Expanded)
- III. **Pressure effects on the structural, electronic, elastic, optical, and vibrational properties of YMg intermetallic compounds: a first-principles study**
ÇİFTÇİ Y., Çatıkkaş B.
Physica Scripta, vol.99, no.6, 2024 (SCI-Expanded)
- IV. **Computational analysis of the physical properties of AlNi intermetallic compound: pressure effect**
KARS DURUKAN İ., Oztekin Ciftci Y.
Indian Journal of Physics, vol.98, no.3, pp.889-901, 2024 (SCI-Expanded)
- V. **Emergent properties resulting from type-II band alignment in a new lateral (α -PbO/ α -SnO) heterostructure**
Bakhtatou A., Hamidani A., Zanat K., ÇİFTÇİ Y., Durukan İ., Ersan F.
Journal of Physics and Chemistry of Solids, vol.183, 2023 (SCI-Expanded)
- VI. **Computational study of effects of doping Ni and Pd on CoAl for hydrogen storage capacity, elastic and electronic properties**
ÇİFTÇİ Y., Corbaci G.
Materials Today Communications, vol.37, 2023 (SCI-Expanded)
- VII. **Investigation of Tungsten-Based Seleno-Chevrel Compounds with Different Compositions for Efficient Water Splitting**
Dag T. S., Sürücü G., Gencer A., Surucu O., Ozel F., Ciftci Y.
Advanced Theory and Simulations, vol.6, no.11, 2023 (SCI-Expanded)
- VIII. **Thermodynamics evaluation of half-metallic ferromagnetism in N-doped XTiO₃ (X = Ca, Sr, and Ba) systems: DFT calculations**
Elahi I., ÇİFTÇİ Y., Akbar W.
Materials Today Communications, vol.34, 2023 (SCI-Expanded)
- IX. **A first-principles prediction on the structural, electronic, elastic, phonon, and transport properties of BaSiN₂**
ÇİFTÇİ Y., ALP İ.
INDIAN JOURNAL OF PHYSICS, vol.96, no.14, pp.4131-4141, 2022 (SCI-Expanded)
- X. **The mechanical, dynamical, thermodynamical properties and elastic anisotropies of cubic YbAu compound under pressure**
KARS DURUKAN İ., EVECEN M., ÇİFTÇİ Y.

MATERIALS TODAY COMMUNICATIONS, vol.33, 2022 (SCI-Expanded)

- XI. **Pressure effects on structural, electronic and anisotropic elastic properties of Si doped RuGe compound with different concentrations by first-principles calculations**
ÇİFTÇİ Y., ÇOBAN C., EVECEN M., Durukan İ. K.
MATERIALS CHEMISTRY AND PHYSICS, vol.291, 2022 (SCI-Expanded)
- XII. **Systematic study of optoelectronic and thermoelectric properties of new lead-free halide double perovskites $A(2)K\text{GaI}(6)$ ($A = \text{Cs, Rb}$) for solar cell applications via ab-initio calculations**
Mukhtar M. W., Ramzan M., Rashid M., Hussain A., Naz G., ÇİFTÇİ Y., Dahshan A., Znaidia S.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.285, 2022 (SCI-Expanded)
- XIII. **Equiatomic Quaternary CoXCrAl ($X = \text{V, Nb, and Ta}$) Heusler Compounds: Insights from DFT Calculations**
Dag T. S., Gencer A., Ciftci Y., Sürücü G.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.560, pp.169620-169631, 2022 (SCI-Expanded)
- XIV. **First-principles study on B_2 based XAl ($X = \text{Rh, Ru}$) compounds**
KARS DURUKAN İ., ÇİFTÇİ Y.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
- XV. **First-principles calculations of vibrational and optical properties of half-Heusler NaScSi**
Kars Durukan İ., Oztekin Ciftci Y.
INDIAN JOURNAL OF PHYSICS, vol.95, no.11, pp.2303-2312, 2021 (SCI-Expanded)
- XVI. **Ab-initio study on physical properties of intermetallic LiPb compound**
Durukan İ., ÇİFTÇİ Y.
Journal of Computational Science, vol.54, 2021 (SCI-Expanded)
- XVII. **Band Alignment in Monolayer Boron Phosphide with Janus MoS_2 Heterobilayers under Strain and Electric Field**
Mogulkoc Y., Caglayan R., Çiftci Y.
PHYSICAL REVIEW APPLIED, vol.16, no.2, 2021 (SCI-Expanded)
- XVIII. **Mechanical and dynamic properties of stable two-dimensional boron-substituted ThMoB_4 -type graphene: First-Principles Study**
Aydın S., Çiftci Y.
MATERIALS TODAY COMMUNICATIONS, vol.27, 2021 (SCI-Expanded)
- XIX. **Ligand-free fabrication of Au/TiO_2 nanostructures for plasmonic hot-electron-driven photocatalysis: Photoelectrochemical water splitting and organic-dye degradation**
Celebi N., Aydın M. Y., Soysal F., Çiftci Y., Salimi K.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.860, 2021 (SCI-Expanded)
- XX. **Theoretical investigation of the electronic structure, elastic, dynamic properties of intermetallic compound NiBe under pressure**
Evecen M., ÇİFTÇİ Y.
EUROPEAN PHYSICAL JOURNAL B, vol.94, no.1, 2021 (SCI-Expanded)
- XXI. **Pressure effects on electronic, elastic, and vibration properties of metallic antiperovskite PbNCa_3 by ab initio calculations**
Ciftci Y., Evecen M., Alp İ.
Journal of Molecular Modeling, vol.27, no.1, 2021 (SCI-Expanded)
- XXII. **The pressure effect on optoelectronic and mechanical properties of chalcopyrite BeSi_2**
Ciftci Y., Alp İ.
MATERIALS TODAY COMMUNICATIONS, vol.24, 2020 (SCI-Expanded)
- XXIII. **A Theoretical Study of Pressure-Induced Effects on Phase Transition and Elastic Properties of AsTh Compound**
ÇİFTÇİ Y., ATEŞER E.
JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.3, pp.2086-2094, 2020 (SCI-Expanded)
- XXIV. **Anisotropic Elastic, Electronic and Vibrational Properties of the Semiconductor AgScX ($X = \text{Ge, C}$)**

Compounds

Kars Durukan İ., Çiftci Y.

JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.3, pp.1849-1856, 2020 (SCI-Expanded)

- XXV. **Green-Emitting Lead-Free Cs₄SnBr₆ Zero-Dimensional Perovskite Nanocrystals with Improved Air Stability**
Chiara R., ÇİFTÇİ Y., Queloz V. I. E., Nazeeruddin M. K., Grancini G., Malavasi L.
JOURNAL OF PHYSICAL CHEMISTRY LETTERS, vol.11, no.3, pp.618-623, 2020 (SCI-Expanded)
- XXVI. **Exploring the role of halide mixing in lead-free BZA(2)SnX(4) two dimensional hybrid perovskites**
Pisanu A., Coduri M., Morana M., ÇİFTÇİ Y., Rizzo A., Listorti A., Gaboardi M., Bindi L., Queloz V. I. E., Milanese C., et al.
JOURNAL OF MATERIALS CHEMISTRY A, vol.8, no.4, pp.1875-1886, 2020 (SCI-Expanded)
- XXVII. **Physical properties of ternary thallium chalcogenes Tl₂(M)MQ₃ (M = Zr, Hf; Q = S, Se, Te) via ab-initio calculations**
ATEŞER E., Okvuran O., ÇİFTÇİ Y., ÖZİŞİK H., DELİGÖZ E.
CHINESE PHYSICS B, vol.28, no.10, 2019 (SCI-Expanded)
- XXVIII. **The Effect of Pressure on Elastic Anisotropy, Vibration and Optical Properties of a AgScSi Compound**
Durukan İ., Ciftci Y.
JOURNAL OF ELECTRONIC MATERIALS, vol.48, no.6, pp.4050-4056, 2019 (SCI-Expanded)
- XXIX. **Analysis of the structural, electronic, elastic and thermodynamic properties of CuAl₂X₄ (X = O, S) spinel structure**
Obeid M. M., Mogulkoc Y., Edrees S. J., Ciftci Y., Shukur M. M., Al-Marzooqee M. M. H.
MATERIALS RESEARCH BULLETIN, vol.108, pp.255-265, 2018 (SCI-Expanded)
- XXX. **First principle study of structural, electronic, mechanical, dynamic and optical properties of half-Heusler compound LiScSi under pressure**
ÇİFTÇİ Y., EVECEN M.
PHASE TRANSITIONS, vol.91, no.12, pp.1206-1222, 2018 (SCI-Expanded)
- XXXI. **First-principles hydrogen adsorption properties of Li-decorated ThMoB₄-type graphene**
Alp İ., AYDIN S., ÇİFTÇİ Y.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.33, pp.16117-16127, 2018 (SCI-Expanded)
- XXXII. **DFT-based ab-initio study of half-Heusler KCaP compound**
Mogulkoc Y., Ciftci Y., Surucu G.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.20, no.1-2, pp.61-68, 2018 (SCI-Expanded)
- XXXIII. **Physical Properties of Superhard Diamond-Like BC₅ from a First-Principles Study**
Alp İ., ÇİFTÇİ Y.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.1, pp.272-284, 2018 (SCI-Expanded)
- XXXIV. **A density functional study of chalcopyrite MgGeSb₂**
Kocak B., ÇİFTÇİ Y.
INDIAN JOURNAL OF PHYSICS, vol.91, no.12, pp.1487-1492, 2017 (SCI-Expanded)
- XXXV. **First principle and tight-binding study of strained SnC**
Mogulkoc Y., Modarresi M., Mogulkoc A., Ciftci Y., Alkan B.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.111, pp.458-463, 2017 (SCI-Expanded)
- XXXVI. **Structural phase transition, electronic, elastic, and vibrational properties of LiAl intermetallic compound: insights from first-principles calculations**
Mogulkoc Y., Ciftci Y., Surucu G.
CANADIAN JOURNAL OF PHYSICS, vol.95, no.8, pp.691-698, 2017 (SCI-Expanded)
- XXXVII. **First-principles calculations of Mg_{1-x}Cu_xSiP₂ alloys with x=0.0, 0.25, 0.5, 0.75 and 1.0**
Kocak B., Ciftci Y.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.705, pp.211-217, 2017 (SCI-Expanded)
- XXXVIII. **First-Principles Study on the Structural, Elastic, Electronic and Vibrational Properties of Scandium Based Intermetallic Compounds (ScX, X = Co, Rh and Ir) Under Pressure**
EVECEN M., ÇİFTÇİ Y.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.12, no.2, pp.100-108, 2017 (SCI-Expanded)

- XXXIX. **The structural, elastic, electronic and dynamical properties of chalcopyrite semiconductor BeGeAs₂ from first-principles calculations**
 ÇİFTÇİ Y., EVECEN M., ALDIRMAZ E.
 APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.123, no.1, 2017 (SCI-Expanded)
- XL. **Structural and Thermoelectronic Properties of Chalcopyrite MgSiX₂ (X = P, As, Sb)**
 Kocak B., Ciftci Y., Surucu G.
 JOURNAL OF ELECTRONIC MATERIALS, vol.46, no.1, pp.247-264, 2017 (SCI-Expanded)
- XLI. **Structural, electronic, elastic, optical, and vibrational properties of HfXSb (X = Co, Rh, Ru) half-Heusler compounds: an ab initio study**
 Coban C., Ciftci Y., Colakoglu K.
 INDIAN JOURNAL OF PHYSICS, vol.90, no.11, pp.1233-1241, 2016 (SCI-Expanded)
- XLII. **Electronic and optical properties of bilayer blue phosphorus**
 Mogulkoc Y., Modarresi M., Mogulkoc A., Ciftci Y.
 COMPUTATIONAL MATERIALS SCIENCE, vol.124, pp.23-29, 2016 (SCI-Expanded)
- XLIII. **The Structural, Elastic, Electronic, Thermodynamic and Vibrational Properties of Protactinium Monocarbide (PaC) from First-Principles Calculations**
 Ciftci Y., Coban C., AYDIN S., Tatar A., Evecen M.
 JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.11, no.4, pp.506-513, 2016 (SCI-Expanded)
- XLIV. **Unraveling Thermal and Dynamical Properties of the Cubic BaVO₃ Perovskite from First-Principles Calculation**
 Mebrouki M., Ouahrani T., Ciftci Y.
 INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.37, no.7, 2016 (SCI-Expanded)
- XLV. **Effect of pressure on structural, electronic, mechanical and optical properties of ruthenium diboride with oP(12)-type structure**
 AYDIN S., Ciftci Y., Mogulkoc Y., Tatar A.
 INDIAN JOURNAL OF PHYSICS, vol.90, no.7, pp.767-779, 2016 (SCI-Expanded)
- XLVI. **Ab-initio calculations of semiconductor MgGeP₂ and MgGeAs₂**
 Kocak B., Ciftci Y.
 Materials Research Bulletin, vol.77, pp.300-306, 2016 (SCI-Expanded)
- XLVII. **Determination of the basic physical properties of semiconductor chalcopyrite type MgSnT₂ (T = P, As, Sb) from first-principles calculations**
 Kocak B., ÇİFTÇİ Y.
 JOURNAL OF MATERIALS RESEARCH, vol.31, no.10, pp.1518-1531, 2016 (SCI-Expanded)
- XLVIII. **Electronic structure and thermoelectric properties of half-Heusler compounds with eight electron valence count-KScX (X = C and Ge)**
 ÇİFTÇİ Y., Mahanti S. D.
 JOURNAL OF APPLIED PHYSICS, vol.119, no.14, 2016 (SCI-Expanded)
- XLIX. **Some new members of MAX family including light-elements: Nanolayered Hf₂XY (X= Al, Si, P and Y=B, C, N)**
 AYDIN S., Tatar A., ÇİFTÇİ Y.
 SOLID STATE SCIENCES, vol.53, pp.44-55, 2016 (SCI-Expanded)
- L. **Electronic structure and elastic properties of AgZn under pressure from first-principles calculations**
 ÇİFTÇİ Y.
 CANADIAN JOURNAL OF PHYSICS, vol.94, no.3, pp.328-333, 2016 (SCI-Expanded)
- LI. **Ab Initio Calculations on the Structural, Mechanical, Electronic, Dynamic, and Optical Properties of Semiconductor Half-Heusler Compound ZrPdSn**
 ÇİFTÇİ Y., ÇOBAN C.
 ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.71, no.2, pp.135-143, 2016 (SCI-Expanded)
- LII. **Thermo-Elastic and Lattice Dynamical Properties of Pd₃X (X = Ti, Zr, Hf) Alloys: An Ab Initio Study**
 Surucu G., Colakoglu K., Ciftci Y., Ozisik H. B., Deligoz E.

- BRAZILIAN JOURNAL OF PHYSICS, vol.45, no.6, pp.604-614, 2015 (SCI-Expanded)
- LIII. **First principles study of the structural, mechanical, phonon, optical, and thermodynamic properties of half-Heusler (HH) compound NbFeSb**
Coban C., Colakoglu K., Ciftci Y.
PHYSICA SCRIPTA, vol.90, no.9, 2015 (SCI-Expanded)
- LIV. **First-principles calculations of the mechanic and vibration properties of AgRE (RE = Ho, Er, Tm) intermetallic compounds under pressure**
Mogulkoc Y., Ciftci Y., Colakoglu K., Deligoz E.
PHYSICA SCRIPTA, vol.90, no.2, 2015 (SCI-Expanded)
- LV. **First principles investigations on the mechanical and vibrational properties for the selected B2-AgRE (RE=Sc, Y, La, Ce) intermetallics**
Coban C., Ciftci Y., Colakoglu K.
PHYSICA B-CONDENSED MATTER, vol.457, pp.22-29, 2015 (SCI-Expanded)
- LVI. **Dynamical and anisotropic behavior of the MSiP2 (M = Be, Mg, Cd, Zn and Hg) compounds**
Ouahrani T., ÇİFTÇİ Y., Mebrouki M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.610, pp.372-381, 2014 (SCI-Expanded)
- LVII. **First principles prediction of structural stability, elastic, lattice dynamical and thermal properties of osmium carbides**
Deligoz E., Ozisik H. B., Colakoglu K., Ciftci Y.
MATERIALS SCIENCE AND TECHNOLOGY, vol.30, no.7, pp.842-849, 2014 (SCI-Expanded)
- LVIII. **First principles LDA+U and GGA+U study of HfO₂: Dependence on the effective U parameter**
ÇİFTÇİ Y., Ergün A., Çolakoğlu K., Deligöz E.
Gazi University Journal of Science, vol.27, no.1, pp.627-636, 2014 (SCI-Expanded)
- LIX. **Ab initio study of the structural, elastic, thermodynamic, electronic and vibration properties of TbMg intermetallic compound**
Mogulkoc Y., Ciftci Y., Kabak M., Colakoglu K.
Superlattices and Microstructures, vol.71, pp.46-61, 2014 (SCI-Expanded)
- LX. **Structural, electronic and mechanical properties of W_{1-x}Tc_xB₂ alloys**
Surucu G., Colakoglu K., Deligoz E., Ciftci Y.
SOLID STATE COMMUNICATIONS, vol.171, pp.1-4, 2013 (SCI-Expanded)
- LXI. **Pressure depended elastic, vibration and optical properties of NbIrSn from first principles calculations**
Kocak B., Ciftci Y., Colakoglu K., Deligoz E., Tatar A.
MATERIALS SCIENCE AND TECHNOLOGY, vol.29, no.8, pp.925-930, 2013 (SCI-Expanded)
- LXII. **The structural, electronic, elastic, vibration and thermodynamic properties of GdMg**
Mogulkoc Y., Ciftci Y., Colakoglu K., Deligoz E.
SOLID STATE SCIENCES, vol.16, pp.168-174, 2013 (SCI-Expanded)
- LXIII. **Structural, elastic, thermodynamic and lattice dynamic properties of PrX (X = Sb, Bi)**
Kocak B., ÇİFTÇİ Y., Colakoglu K., DELİGÖZ E.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.104, no.1, pp.99-108, 2013 (SCI-Expanded)
- LXIV. **A theoretical study for thorium monocarbide (ThC)**
AYDIN S., Tatar A., Ciftci Y.
JOURNAL OF NUCLEAR MATERIALS, vol.429, pp.55-69, 2012 (SCI-Expanded)
- LXV. **Lattice dynamical and thermodynamical properties of ReB₂, RuB₂, and OsB₂ compounds in the ReB₂ structure**
Deligoz E., Colakoglu K., Ciftci Y.
CHINESE PHYSICS B, vol.21, no.10, 2012 (SCI-Expanded)
- LXVI. **Lattice dynamical properties of TcB₂ compound**
Deligoz E., Colakoglu K., Ozisik H. B., Ciftci Y.
SOLID STATE SCIENCES, vol.14, no.7, pp.794-800, 2012 (SCI-Expanded)
- LXVII. **Ab initio calculations on the structural and lattice dynamical properties of TmX (X=As, P)**

compounds

Coban C., Colakoglu K., Ciftci Y.

JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.73, no.7, pp.917-924, 2012 (SCI-Expanded)

- LXVIII. **First principles studies of elastic, electronic and optical properties of chalcopyrite semiconductor ZnSnP₂**
Sahin S., Ciftci Y., Colakoglu K., Korozlu N.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.529, pp.1-7, 2012 (SCI-Expanded)
- LXIX. **Superhard transition metal tetranitrides: XN₄ (X=Re, Os, W)**
AYDIN S., ÇİFTÇİ Y., Tatar A.
JOURNAL OF MATERIALS RESEARCH, vol.27, no.13, pp.1705-1715, 2012 (SCI-Expanded)
- LXX. **Structural, electronic, elastic, thermodynamic and vibration properties of TbN compound from first principles calculations**
Ciftci Y., Ozayman M., Surucu G., Colakoglu K., Deligoz E.
SOLID STATE SCIENCES, vol.14, no.3, pp.401-408, 2012 (SCI-Expanded)
- LXXI. **The structural, elastic and thermodynamic properties of intermetallic compound CeGa₂**
ÇİFTÇİ Y., Colakoglu K., ÇOBAN C., DELİGÖZ E.
CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.10, no.1, pp.197-205, 2012 (SCI-Expanded)
- LXXII. **First-Principles Calculations on Structure, Elastic and Thermodynamic Properties of Al₂X (X=Sc, Y) under Pressure**
ÇİFTÇİ Y., Colakoglu K., DELİGÖZ E., Bayhan U.
JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, vol.28, no.2, pp.155-163, 2012 (SCI-Expanded)
- LXXIII. **A first-principle study of the structural, elastic, lattice dynamical and thermodynamic properties of PrX (X=P, As)**
Kocak B., Ciftci Y., Colakoglu K., Deligoz E.
PHYSICA B-CONDENSED MATTER, vol.407, no.3, pp.316-323, 2012 (SCI-Expanded)
- LXXIV. **A Molecular Dynamics Study on Au**
ÇİFTÇİ Y., Colakoglu K., ÖZGEN S.
MOLECULAR DYNAMICS - THEORETICAL DEVELOPMENTS AND APPLICATIONS IN NANOTECHNOLOGY AND ENERGY, pp.201-214, 2012 (SCI-Expanded)
- LXXV. **Lattice vibrational properties of Al₂X (X = Sc, Y) from density functional theory calculations**
Deligoz E., Colakoglu K., Ozisik H. B., Ciftci Y.
SOLID STATE COMMUNICATIONS, vol.152, no.2, pp.76-80, 2012 (SCI-Expanded)
- LXXVI. **Vibrational properties of Re₂N and Re₃N compounds**
Deligoz E., Colakoglu K., Ozisik H. B., Ciftci Y.
SOLID STATE COMMUNICATIONS, vol.151, no.17, pp.1122-1127, 2011 (SCI-Expanded)
- LXXVII. **Structural, elastic, electronic and thermodynamic properties of Nd₂Te via first principle calculations**
Mogulkoc Y., Ciftci Y., Colakoglu K.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.13, pp.946-951, 2011 (SCI-Expanded)
- LXXVIII. **The first principles study on the TmSb compound**
Coban C., Colakoglu K., Ciftci Y.
SOLID STATE SCIENCES, vol.13, no.6, pp.1291-1298, 2011 (SCI-Expanded)
- LXXIX. **First-principles studies of CaX (X = In, Tl) intermetallic compounds**
Ozayman M., Ciftci Y., Colakoglu K., Deligoz E.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.13, pp.565-574, 2011 (SCI-Expanded)
- LXXX. **Ab initio study of structural, elastic and vibrational properties of praseodymium chalcogenides**
Kocak B., Ciftci Y., Colakoglu K., Deligoz E.
COMPUTATIONAL MATERIALS SCIENCE, vol.50, no.7, pp.1958-1964, 2011 (SCI-Expanded)
- LXXXI. **The structural, electronic and optical properties of Cd_xZn_{1-x}Se ternary alloys**
Korozlu N., Colakoglu K., Deligoz E., Ciftci Y.
OPTICS COMMUNICATIONS, vol.284, no.7, pp.1863-1867, 2011 (SCI-Expanded)
- LXXXII. **The structural, elastic and vibrational properties of the DyX (X = P, As) compounds**

- Ozisk H., Ciftci Y., Colakoglu K., Deligoz E.
PHYSICA SCRIPTA, vol.83, no.3, 2011 (SCI-Expanded)
- LXXXIII. **Ab initio study of PrAg intermetallic compound**
Kocak B., Ciftci Y., Colakoglu K., Deligoz E.
PHYSICA B-CONDENSED MATTER, vol.406, no.3, pp.388-392, 2011 (SCI-Expanded)
- LXXXIV. **Mechanical and phonon properties of the superhard LuB₂, LuB₄, and LuB₁₂ compounds**
Deligoz E., Ozisk H., Colakoglu K., Surucu G., Ciftci Y.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, no.5, pp.1711-1715, 2011 (SCI-Expanded)
- LXXXV. **First principles predictions on mechanical and physical properties of HoX (X = As, P)**
Coban C., Colakoglu K., Ciftci Y.
MATERIALS CHEMISTRY AND PHYSICS, vol.125, no.3, pp.887-894, 2011 (SCI-Expanded)
- LXXXVI. **Structural, elastic, and lattice dynamical properties of YB₂ compound**
Ozisk H., Deligoz E., Colakoglu K., Ciftci Y.
COMPUTATIONAL MATERIALS SCIENCE, vol.50, no.3, pp.1057-1063, 2011 (SCI-Expanded)
- LXXXVII. **Structural, elastic, electronic, and thermodynamic properties of PrN from first principles calculations**
Kocak B., Ciftci Y., Colakoglu K., Deligoz E.
PHYSICA B-CONDENSED MATTER, vol.405, no.19, pp.4139-4144, 2010 (SCI-Expanded)
- LXXXVIII. **The structural, electronic, elastic, vibrational, and thermodynamic properties of HoX (X=Sb, Bi)**
ÇOBAN C., Colakoglu K., ÇİFTÇİ Y.
PHYSICA B-CONDENSED MATTER, vol.405, no.18, pp.3977-3985, 2010 (SCI-Expanded)
- LXXXIX. **Electronic and mechanical properties of the PdN: A first-principles study**
Deligoz E., Colakoglu K., Ciftci Y.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.247, no.9, pp.2155-2160, 2010 (SCI-Expanded)
- XC. **The electronic and optical properties of Zn_{1-x}CaxSe mixed alloys**
Surucu G., Colakoglu K., Deligoz E., Korozlu N., Ciftci Y.
SOLID STATE COMMUNICATIONS, vol.150, no.29-30, pp.1413-1418, 2010 (SCI-Expanded)
- XCI. **Elastic, electronic, and vibrational properties of RhN compound**
Deligoz E., Colakoglu K., Ciftci Y.
JOURNAL OF MATERIALS SCIENCE, vol.45, no.14, pp.3720-3726, 2010 (SCI-Expanded)
- XCII. **Phonon dispersion and thermodynamical properties in ZrB₂, NbB₂, and MoB₂**
Deligoz E., Colakoglu K., Ciftci Y.
SOLID STATE COMMUNICATIONS, vol.150, pp.405-410, 2010 (SCI-Expanded)
- XCIII. **Lattice dynamical and thermodynamical properties of HfB₂ and TaB₂ compounds**
Deligoz E., Colakoglu K., Ciftci Y.
COMPUTATIONAL MATERIALS SCIENCE, vol.47, no.4, pp.875-880, 2010 (SCI-Expanded)
- XCIV. **The structural, electronic, elastic, phonon, and thermodynamical properties of the SmX (X = P, Sb, Bi) compounds**
Coban C., Colakoglu K., Deligoz E., Ciftci Y.
COMPUTATIONAL MATERIALS SCIENCE, vol.47, no.3, pp.758-768, 2010 (SCI-Expanded)
- XCV. **Lattice dynamical properties of ScB₂, TiB₂, and VB₂ compounds**
Deligoz E., Colakoglu K., Ciftci Y.
SOLID STATE COMMUNICATIONS, vol.149, pp.1843-1848, 2009 (SCI-Expanded)
- XCVI. **The structural, thermodynamical and elastic properties of TiO**
ÇİFTÇİ Y., Unlu Y., Colakoglu K., DELİGÖZ E.
PHYSICA SCRIPTA, vol.80, no.2, 2009 (SCI-Expanded)
- XCVII. **A first-principles study on the structural, elastic, vibrational, and thermodynamical properties of BaX (X = S, Se, and Te)**
Tuncel E., Colakoglu K., Deligoz E., Ciftci Y.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.70, no.2, pp.371-378, 2009 (SCI-Expanded)
- XCVIII. **A first-principle study of the structural and lattice dynamical properties of CaX (X=S, Se, and Te)**

- Bayrakci M., Colakoglu K., Deligoz E., Ciftci Y.
HIGH PRESSURE RESEARCH, vol.29, no.2, pp.187-203, 2009 (SCI-Expanded)
- XCIX. **A first-principles studies on TIX (X=P, As)**
ÇİFTÇİ Y., Colakoglu K., DELİGÖZ E.
CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.6, no.4, pp.802-807, 2008 (SCI-Expanded)
- C. **The first principles study on PtC compound**
Deligoz E., Ciftci Y., Jochym P. T., Colakoglu K.
MATERIALS CHEMISTRY AND PHYSICS, vol.111, no.1, pp.29-33, 2008 (SCI-Expanded)
- CI. **The structural, thermodynamical, elastic, and vibrational properties of LaBi**
Ciftci Y., Colakoglu K., Deligoz E.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.20, no.34, 2008 (SCI-Expanded)
- CII. **Ab initio study on hypothetical silver nitride**
Deligoz Engin D. E., Colakoglu Kemal C. K., Ciftci Yasemin Oztekin C. Y. O.
CHINESE PHYSICS LETTERS, vol.25, no.6, pp.2154-2157, 2008 (SCI-Expanded)
- CIII. **The structural, elastic, and electronic properties of the pyrite-type phase for SnO₂**
Deligoz E., Colakoglu K., Ciftci Y.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.69, no.4, pp.859-864, 2008 (SCI-Expanded)
- CIV. **The first-principles study on the LaN**
Ciftci Y., Colakoglu K., Deligoz E., Ozisik H.
MATERIALS CHEMISTRY AND PHYSICS, vol.108, no.1, pp.120-123, 2008 (SCI-Expanded)
- CV. **A first principles study of cubic IrO₂ polymorph**
Deligoz E., Colakoglu K., Ciftci Y.
EUROPEAN PHYSICAL JOURNAL B, vol.60, no.4, pp.477-481, 2007 (SCI-Expanded)
- CVI. **Lattice dynamical calculations for the Ta-W alloys**
Deligoz E., Colakoglu K., Ciftci Y.
MATERIALS LETTERS, vol.61, no.27, pp.4867-4871, 2007 (SCI-Expanded)
- CVII. **Electronic, elastic, thermodynamical, and dynamical properties of the rock-salt compounds LaAs and LaP**
Deligoz E., Colakoglu K., Ciftci Y., Ozisik H.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.19, no.43, 2007 (SCI-Expanded)
- CVIII. **The calculation of some thermoelastic properties and pressure-temperature (P-T) diagrams of Rh and Sr using molecular dynamics simulation**
Ciftci Y., Colakoglu K., Ozgen S., Kazanc S.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.19, no.32, 2007 (SCI-Expanded)
- CIX. **The elastic, electronic, and vibrational properties of pure CdF₂: A first-principles study**
Deligoz E., Colakoglu K., Ciftci Y.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.438, pp.66-71, 2007 (SCI-Expanded)
- CX. **A molecular dynamics study on iridium**
Ferah G., Colakoglu K., Ciftci Y., Ozgen S., Kazanc S.
CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.5, no.2, pp.207-220, 2007 (SCI-Expanded)
- CXI. **The first principles study on boron bismuth compound**
Deligoz E., Colakoglu K., Oztekin Ciftci Y., Ozisik H.
COMPUTATIONAL MATERIALS SCIENCE, vol.39, no.3, pp.533-540, 2007 (SCI-Expanded)
- CXII. **The first principles study on the Boron antimony compound**
Deligoz E., Colakoglu K., Ciftci Y.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.68, no.4, pp.482-489, 2007 (SCI-Expanded)
- CXIII. **The effect of pressure on the elastic constants of Cu, Ag and Au: a molecular dynamics study**
Ciftci Y., Colakoglu K., Kazanc S., Ozgen S.
CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.4, no.4, pp.472-480, 2006 (SCI-Expanded)
- CXIV. **Temperature and pressure dependence of the some elastic and lattice dynamical properties of copper: a molecular dynamics study**

- Kazanc S., Ciftci Y., Colakoglu K., Ozgen S.
PHYSICA B-CONDENSED MATTER, vol.381, pp.96-102, 2006 (SCI-Expanded)
- CXV. **Elastic, electronic, and lattice dynamical properties of CdS, CdSe, and CdTe**
Deligoz E., Colakoglu K., Ciftci Y.
PHYSICA B-CONDENSED MATTER, vol.373, no.1, pp.124-130, 2006 (SCI-Expanded)
- CXVI. **Spin-dependent transport of holes in microstructures periodically modulated by diluted magnetic semiconductor sections**
Ciftci Y., Wang X., Vasilopoulos P.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.30, pp.74-80, 2005 (SCI-Expanded)
- CXVII. **Lattice dynamical calculations for the bcc cerium**
Deligoz E., Ciftci Y., Colakoglu K.
MATERIALS LETTERS, vol.59, no.17, pp.2166-2169, 2005 (SCI-Expanded)
- CXVIII. **A large emitting area UV light source with semiconductor cathode**
Salamov B., Ciftci Y., Colakoglu K.
IEEE TRANSACTIONS ON PLASMA SCIENCE, vol.32, no.5, pp.2093-2098, 2004 (SCI-Expanded)
- CXIX. **Ab initio study of the adsorption of In on the Si(001)-(2 x 2) surface**
Ciftci Y., Cakmak M., Srivastava G., Colakoglu K.
SURFACE SCIENCE, vol.507, pp.23-28, 2002 (SCI-Expanded)
- CXX. **Temperature dependent thermoelastic properties of some fcc crystals**
Ciftci Y., Colakoglu K.
SOLID STATE SCIENCES, vol.4, no.2, pp.255-259, 2002 (SCI-Expanded)
- CXXI. **Embedded atom method for theoretical strength and stability of some fcc metals**
Ciftci Y., Colakoglu K.
ACTA PHYSICA POLONICA A, vol.100, no.4, pp.539-552, 2001 (SCI-Expanded)

Articles Published in Other Journals

- I. **First-principles Calculations of TICdF3 Compound under Pressure**
kocak b., Ciftci Y.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.3, pp.558-566, 2024 (Peer-Reviewed Journal)
- II. **ANALYSIS OF TiFe INTERMETALLIC COMPOUND BY DFT**
Taş E., kars durukan i., Ciftci Y.
Journal of scientific reports-A (Online), no.053, pp.118-130, 2023 (Peer-Reviewed Journal)
- III. **Quantum Efficiency Improvement of InGaN Near Ultraviolet LED Design by Genetic Algorithm**
ALP İ., ÖNER B. B., EROĞLU E., ÇİFTÇİ Y.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.27, no.1, pp.94-112, 2023 (Peer-Reviewed Journal)
- IV. **DFT Analysis of Mechanical and Dynamic Properties of CuBe**
KARS DURUKAN İ., Oztekin Ciftci Y.
Gazi University Journal of Science, vol.35, no.4, pp.1652-1663, 2022 (Scopus)
- V. **scholarena.com alanından [PDF] Exploring of Elastic, Vibrational and Thermoelectric Properties of NaScGe Compound: Ab-initio Study**
Çiftci Y.
J Nanosci Nanotechnol Appl, vol.5, no.101, pp.1-10, 2021 (Peer-Reviewed Journal)
- VI. **Exploring of Elastic, Vibrational and Thermoelectric Properties of NaScGe Compound: Ab-initio Study**
ÇİFTÇİ Y.
J Nanosci Nanotechnol Appl, vol.5, no.101, pp.2, 2021 (Peer-Reviewed Journal)
- VII. **Study of electronic and lattice dynamical properties of antiperovskite-type nitrides XNNi3 (X= Pd, Sn and Sb)**

- Moğulkoç Y., Çiftci Y., Sürücü G.
International Journal of Biosensors Bioelectronics, vol.4, no.2, pp.70-75, 2018 (Peer-Reviewed Journal)
- VIII. **The effect of pressure on structural, electronic, elastic, vibration and optical properties of ScXSb (X=Ni, Pd, Pt) compounds**
Kocak B., Ciftci Y.
Computational Condensed Matter, vol.14, pp.176-185, 2018 (Scopus)
- IX. **The First Principles Approach to The Structural, Elastic, Electronic, Vibrational and Thermal Properties of CsCl type-ErAu Alloy**
MOĞULKOÇ Y., ÇİFTÇİ Y.
Cumhuriyet Science Journal, vol.38, no.4, pp.611-618, 2017 (Peer-Reviewed Journal)
- X. **An Ab-initio study on UAl for nuclear applications**
Özcan A., Çiftci Y., Alp İ.
EPJ WEB OF CONFERENCES, vol.154, pp.1021-1025, 2017 (Scopus)
- XI. **Investigation on Structural, Elastic, Electronic and Vibrational Properties of LiTiAl Half-Heusler Compound Using First Principles Methods**
MOĞULKOÇ Y., ÇİFTÇİ Y.
Cumhuriyet Science Journal, vol.38, no.2, pp.312, 2017 (Peer-Reviewed Journal)
- XII. **Yarı-Heusler LiScPb Yarıiletkeni Üzerine Bir İlk İlkel Araştırma**
MOĞULKOÇ Y., ÇİFTÇİ Y.
SAÜ Fen Bilimleri Enstitüsü Dergisi, vol.21, no.6, pp.1278, 2017 (Peer-Reviewed Journal)
- XIII. **First principles LDA U and GGA U study of HfO₂ Dependence on the effective U parameter**
ÇİFTÇİ Y., Ahmet Hakan E., Kemal Ç., DELİGÖZ E.
Gazi University Journal of Science, vol.27, no.1, pp.627-636, 2014 (Scopus)
- XIV. **First principles study of structural elastic and electronic properties of NdTe₂ and TiNdTe₂**
MOĞULKOÇ Y., ÇİFTÇİ Y., KABAK M., Kemal Ç.
Cumhuriyet University Faculty of Science ISSN: 1300-1949 Science Journal (CSJ), vol.34, no.3, pp.12, 2013 (Peer-Reviewed Journal)
- XV. **Ab-initio Total Energy Calculations on the AgNd Compound**
Sürücü G., Çolakoğlu K., Deligöz E., Çiftci Y.
BALKAN PHYSICS LETTERS, vol.15, pp.151018, 2009 (Peer-Reviewed Journal)
- XVI. **The lattice dynamics and some elastic properties of c-fcc and bcc lanthanum**
Çakmak M., Öztekin Y., Çolakoğlu K.
Proc. Suppl. BPL,, vol.5, pp.466-469, 1997 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **STRUCTURAL, ELECTRONIC, ELASTIC, AND VIBRATIONAL PROPERTIES OF THE CHALCOPYRITE SEMICONDUCTOR ZNSIP₂**
ALP İ., ÇİFTÇİ Y.
in: INTERNATIONAL THEORY, RESEARCH AND REVIEWS IN SCIENCE AND MATHEMATICS, Prof. Dr. Hasan AKGÜL, Editor, Serüven Yayinevi, Ankara, pp.1-17, 2023
- II. **An Ab-initio Study of Structural, Elastic, Electronic, Vibrational and Optical Properties of Semiconductor NaAlSi Compound for Optoelectronic Applications**
Çiftci Y.
in: Advances in Optoelectronic Materials, Shadia Ikmayies, Hatice Hilal Kurt, Editor, Springer, London/Berlin, Geneve, pp.125-144, 2021
- III. **An Ab-initio Study of Structural, Elastic, Electronic, Vibrational and Optical Properties of Semiconductor NaAlSi Compound for Optoelectronic Applications**
ÇİFTÇİ Y.

in: Advances in Optoelectronic Materials, Shadia Jamil Ikhmayies, Hatice Hilal Kurt, Editor, Springer, Cham, pp.125-144, 2021

IV. **Molecular Dynamics Study on Au**

ÇİFTÇİ Y., Kemal Ç., ÖZGEN S.

in: Theoretical Developments and Applications in Nanotechnology and Energy, Waang Lichang, Editor, CC BY 3.0 license, pp.201, 2012

Refereed Congress / Symposium Publications in Proceedings

- I. **ANALYSIS OF STRUCTURAL, ELECTRONIC, MECHANICAL AND THERMODYNAMIC PROPERTIES OF Ir₃TiC COMPOUND USING DFT**
KARS DURUKAN İ., ÇİFTÇİ Y.
2nd International Karatekin Science and Technology Conference (IKSTC2nd), Çankırı, Turkey, 21 - 22 December 2023
- II. **THE INFLUENCE OF PRESSURE ON THE STRUCTURAL AND ELASTIC PROPERTIES OF THE CuY INTERMETALLIC COMPOUND**
KARS DURUKAN İ., ÇİFTÇİ Y.
2nd International Karatekin Science and Technology Conference (IKSTC2nd), Çankırı, Turkey, 21 - 22 December 2023
- III. **Some physical properties of B2 type AgY intermetallic compound from Ab-initio Calculations**
ÇİFTÇİ Y., KARS DURUKAN İ.
2nd International Karatekin Science and Technology Conference (IKSTC2nd), Çankırı, Turkey, 21 - 22 December 2023
- IV. **Effect of Pressure on Optoelectronic Properties of Ir₃ZrC Compound**
ÇİFTÇİ Y., KARS DURUKAN İ.
2nd International Karatekin Science and Technology Conference (IKSTC2nd), Çankırı, Turkey, 21 - 22 December 2023
- V. **Computational Study of Structural, Electronic Mechanical and Optical Properties of Antiperovskite PNSr₃ Compound**
Gemici İ. A., ÇİFTÇİ Y., KARS DURUKAN İ.
3. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENCE RESEARCH, Ankara, Turkey, 07 August 2023
- VI. **ANALYSIS OF STRUCTURAL AND MECHANICAL PROPERTIES OF YHg INTERMETALLIC COMPOUND**
KARS DURUKAN İ., demir f., ÇİFTÇİ Y.
3. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENTIFIC RESEARCH, Adana, Turkey, 7 - 08 August 2023
- VII. **CONCENTRATION DEPENDENCE OF STRUCTURAL AND MECHANICAL AND ELECTRONIC PROPERTIES OF IrTi_{1-x}Zn_x INTERMETALLIC COMPOUND**
ÇİFTÇİ Y., KARS DURUKAN İ.
3. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENTIFIC RESEARCH, Adana, Turkey, 7 - 08 August 2023
- VIII. **TRANSITION METAL ADDING ON B2-TYPE TIC₁ COMPOUND FOR PHYSICAL PROPERTIES : AB-INITIO CALCULATIONS**
ÇİFTÇİ Y., KARS DURUKAN İ.
3. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENTIFIC RESEARCH, Adana, Turkey, 7 - 08 August 2023
- IX. **ANALYSIS OF STRUCTURAL AND OPTIC PROPERTIES OF TiZn INTERMETALLIC COMPOUND**
KARS DURUKAN İ., ÇİFTÇİ Y.
3. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENTIFIC RESEARCH, Adana, Turkey, 7 - 08 August 2023
- X. **THE OPTICAL AND THERMODYNAMIC CHARACTER OF THE INTERMETALLIC COMPOUND BaCd**
ALP İ., GEMİCİ İ. A., ÇİFTÇİ Y.
6. INTERNATIONAL AEGEAN CONFERENCES on Natural & Medical Sciences, İzmir, Turkey, 20 December 2022
- XI. **AlPd Bileşiğinin Termodinamik Özellikleri**

Çorbacı G., Akkuş C., ALP İ., ÇİFTÇİ Y.

YMF Ankara - 27, Ankara, Turkey, 16 December 2022

- XII. **Thermodynamic Properties of Half -Heusler Semiconductor RhTiSb Compound**
KARS DURUKAN İ., ÇİFTÇİ Y.
ICMATSE, Turkey, 27 - 29 October 2022
- XIII. **Investigation of Mechanical Properties of $Ni_xW_6Se_8$ ($x=1,2,3,4$) Chevrel Phase Compounds**
Dağ T. S., Gencer A., Özel F., Sürücü G., Çiftci Y.
International Conference on Advanced Materials Science & Engineering and High Tech Device Applications, Ankara, Turkey, 27 - 29 October 2022, pp.74
- XIV. **Pressure effect on the elastic and electronic properties of RhTiSb Half Heusler compound**
ÇİFTÇİ Y., KARS DURUKAN İ.
ECRES 2022, İstanbul, Turkey, 07 May 2022
- XV. **Optoelectronic Properties of Semiconductor NiHfSi Compound via Ab-initio Methods**
KARS DURUKAN İ., ÇİFTÇİ Y.
ECRES 2022, İstanbul, Turkey, 07 May 2022
- XVI. **Ab-initio study on hydrogen storage of Ni substituted CuZn in B2 structure**
ÇİFTÇİ Y., KARS DURUKAN İ.
ECRES 2022, İstanbul, Turkey, 07 May 2022
- XVII. **Defect effects on hardness of B2-type YIn Compound**
KARS DURUKAN İ., ÇİFTÇİ Y.
ECRES 2022, İstanbul, Turkey, 07 May 2022
- XVIII. **First-Principles study on thermoelectric and electronic properties of Half-Heusler BeCaGa compound under strain**
ÇİFTÇİ Y., KARS DURUKAN İ.
ECRES 2022, İstanbul, Turkey, 07 May 2022
- XIX. **Theoretical Analysis of Thermodynamic Properties of RhTiAs Half Heusler Compound**
KARS DURUKAN İ., ÇİFTÇİ Y.
ECRES 2022, İstanbul, Turkey, 07 May 2022
- XX. **NiW₆Se₈ Chevrel Phase for Photocatalytic Water Splitting: A DFT Study**
DAĞ T. S., GENÇER A., ÖZEL F., SÜRÜCÜ G., ÇİFTÇİ Y.
10. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS, 7 - 09 May 2022, pp.18
- XXI. **ANALYSIS OF CoTiSb COMPOUND BY FIRST PRINCIPLES METHOD**
KARS DURUKAN İ., ÇİFTÇİ Y.
3. ULUSLARARASI MÜHENDİSLİK BİLİMLERİ VE MULTİDİSİPLİNER YAKLAŞIMLAR KONGRESİ, Ankara, Turkey, 10 February 2022
- XXII. **THEORETICAL INVESTGATON OF THE MECHANICAL AND ELECTRONIC PROPERTIES OF YbS COMPOUND**
KARS DURUKAN İ., ÇİFTÇİ Y.
3. ULUSLARARASI MÜHENDİSLİK BİLİMLERİ VE MULTİDİSİPLİNER YAKLAŞIMLAR KONGRESİ, Ankara, Turkey, 10 February 2022
- XXIII. **Effects of Compositions on the Properties of Cu doped ScAu : First-Principles Study**
Durukan İ. K., ÇİFTÇİ Y.
Interdisciplinary Conference on Mechanics, Computers and Electrics, Ankara, Turkey, 27 November 2021, pp.173
- XXIV. **Effects of Compositions on the Properties of Cu doped ScAu : First-Principles Study**
KARS DURUKAN İ., ÇİFTÇİ Y.
ICMECE, Turkey, 27 - 28 November 2021
- XXV. **Effects Effect of Pressure on Physical and Vibrational Properties of YbS Compound**
KARS DURUKAN İ., ÇİFTÇİ Y.
ICMECE, Turkey, 27 - 28 November 2021
- XXVI. **Optoelectronic Properties of Zn doped Lead free photovoltaic CsSnI₃ compound**
Çiftci Y.

- 9th Eur. Conf. Ren. Energy Sys(ECRES 2021), Ankara, Turkey, 21 April - 23 October 2022, pp.562-564
- XXVII. **Pressure-induced Effects on Phase Transition Elastic Properties, Electronic, Vibrational and Thermodynamic Properties of CeAs Compound :Ab-initio Study**
ÇİFTÇİ Y., KARS DURUKAN İ.
ECRES 2021, Turkey, 21 - 23 April 2021
- XXVIII. **A theoretical study of pressure-induced effects on CeAs compound**
Kars Durukan İ., Çiftci Y.
EcRES-2021, İstanbul, Turkey, 21 - 23 April 2021, pp.559-561
- XXIX. **Analysis of optical properties of the CeTi intermetallic structure**
Kars Durukan İ., Çiftci Y.
ECRES-2021, İstanbul, Turkey, 21 - 23 April 2021, pp.553-555
- XXX. **Ab initio Calculations of the Mechanical Vibration and bond Nature of the CdSr Compound**
Kars Durukan İ., Çiftci Y.
ECRES-2021, İstanbul, Turkey, 21 - 23 April 2021, pp.549-552
- XXXI. **The Physical Properties of newly synthesized superconductor compound LaNiGe via Ab-initio calculatios**
Çiftci Y., Kars Durukan İ.
ECRES-2021, İstanbul, Turkey, 21 - 23 April 2021, pp.556-558
- XXXII. **Evaluation of Mechanical and Thermodynamic Properties of BaZn compound by DFT**
Kars Durukan İ., Çiftci Y.
ECRES-2021, İstanbul, Turkey, 21 - 23 April 2021, pp.544-548
- XXXIII. **Effects of Al/In doping on the hydrogen storage performance, elastic and vibrational properties of IrGa alloy in B2 structure**
ÇİFTÇİ Y., KOÇAK B.
International Conference on Advanced Materials ScienceEngineering and High Tech Devices Applications Exhibition (ICMATSE 2020), 2 - 04 October 2020
- XXXIV. **Light Extraction Efficiency Enhancement of InGaN Near UV LEDs by Genetic Algorithm**
Öner B., Alp İ., Eroğlu E., Aydın S. Ş., Çiftci Y.
International Conference on Advanced Materials Science and Engineering and High Tech Device Applications (ICMATSE 20), Ankara, Turkey, 02 October 2020
- XXXV. **A computational study of structural, electronic, vibrational and optical properties of YNiBi half-Heusler alloy**
KOÇAK B., ÇİFTÇİ Y.
International Conference on Advanced Materials Science Engineering and High Tech Devices Applications Exhibition (ICMATSE 2020), 2 - 04 October 2020
- XXXVI. **Optimization of ZnO-based Near UV Solar Cell and Light Emitting Devices**
Öner B. B., Alp İ., Eroğlu E., Aydın S. Ş., Çiftci Y.
8th EUROPEAN CONFERENCE on RENEWABLE ENERGY SYSTEMS, İstanbul, Turkey, 24 - 25 August 2020, pp.39
- XXXVII. **COMPOSITION EFFECTS ON ELASTIC AND ELECTRONIC PROPERTIES OF RU DOPED OSHF (RUXOS1-XHF) ALLOYS: AB-INITIO STUDY**
ÇİFTÇİ Y.
8.EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS, İstanbul, Turkey, 24 August 2020, pp.730-734
- XXXVIII. **THEORETICAL STUDY ON PRESSURE EFFECTS ON PHYSICAL PROPERTIES OF SEMICONDUCTOR COMPOUND LiCdP**
ÇİFTÇİ Y.
8.EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS, İstanbul, Turkey, 24 August 2020, pp.725-729
- XXXIX. **Pressure Effect on Phase Transition for CaTe Compound**
ÇİFTÇİ Y., KARS DURUKAN İ.
6th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), 16 - 18 October 2019
- XL. **The effect of Rh, Ir doping on the structural and elastic properties of CoAl: An ab-initio study**

KARS DURUKAN İ., ÇİFTÇİ Y.

6th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), 16 - 18 October 2019

- XLII. **A first-principles study of B2 TcSi alloyed with Mn,Re**
KARS DURUKAN İ., ÇİFTÇİ Y.
6th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), 16 - 18 October 2019
- XLIII. **Ab-INITIO STUDY OF INTERMETALLIC BaZnIN B2 STRUCTURE FOR ELASTIC AND THERMODYNAMIC PROPERTIES UNDER PRESSURE**
KARS DURUKAN İ., ÇİFTÇİ Y.
2nd International Eurasian Conference on Biological and Chemical Sciences, 28 - 29 June 2019
- XLIII. **Structural, elastic, electronic and vibrational properties of CdSr compound : First-principles study pressure**
KARS DURUKAN İ., ÇİFTÇİ Y.
2nd International Eurasian Conference on Biological and Chemical Sciences, 28 - 29 June 2019
- XLIV. **BOR INCORPORATION INTO YRh in B2 STRUCTURE: An AB-INITIO STUDY**
Çiftci Y., Alp İ.
1. Uluslararası 23 Nisan Multidisipliner Çalışmalar Kongresi, Ankara, Turkey, 20 - 23 April 2019, pp.170-174
- XLV. **EFFECTS OF COMPOSITIONS ON THE PROPERTIES OF Cu DOPED AuCdSHAPE MEMORY ALLOY : FIRST-PRINCIPLES STUDY**
ÇİFTÇİ Y., Durukan İ. K.
1. ULUSLARARASI 23 NİSAN MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, Ankara, Turkey, 20 - 23 April 2019, pp.163-169
- XLVI. **THEORETICAL STUDY OF STRUCTURAL, ELASTIC ANISOTROPY, ELECTRONIC, AND VIBRATIONAL PROPERTIES OF CuBe COMPOUND**
KARS DURUKAN İ., ÇİFTÇİ Y.
1. ULUSLARARASI 23 NİSAN MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, 20 - 23 April 2019
- XLVII. **FIRST-PRINCIPLES STUDY OF STRUCTURAL, ELASTIC, ELECTRONIC, THERMODYNAMIC PROPERTIES OF RuTi COMPOUND in B2 STRUCTURE**
KARS DURUKAN İ., ÇİFTÇİ Y.
1. ULUSLARARASI 23 NİSAN MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, 20 - 23 April 2019
- XLVIII. **The Influence of Boron Dopant on the Structural and Mechanical Properties of Silicon: First Principles Study**
Ikhmayies S., ÇİFTÇİ Y.
Energy Technologies Symposium, San-Antonio, Northern Mariana Islands, 01 January 2019, pp.191-199
- XLIX. **The Influence of Phosphorus Dopant on the Structural and Mechanical Properties of Silicon**
Ikhmayies S., ÇİFTÇİ Y.
Energy Technologies Symposium, San-Antonio, Northern Mariana Islands, 01 January 2019, pp.201-211
- L. **The Pressure Effects on Physical Properties of CeZn Compound in B2 Structure**
KARS DURUKAN İ., ÇİFTÇİ Y.
EurasianSciTech-2018, 22 - 23 November 2018
- LI. **A First-Principles Study of Pressure-induced Effects on Phase Transition, Elastic and Electronic Properties of CeTe Compound**
KARS DURUKAN İ., ÇİFTÇİ Y.
EurasianSciTech-2018, 22 - 23 November 2018
- LII. **Pressure Effects on Electronic and Elastic Properties of Half-Heusler Semiconductor AgScSi for Optoelectronic Applications**
KARS DURUKAN İ., ÇİFTÇİ Y.
5th International Conference on Materials Science and Nanotechnology For Next Generation, 4 - 06 October 2018
- LIII. **Elastic and Electronic Properties of Zr Doped TiB (ZrxTi1-xB)Alloys By: First-Principles Study**
Çiftci Y., Alp İ.

5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018, pp.266-269

- LIV. **Structural, Optic and Vibrational Properties of CeTi Using First-Principles Study**
KARS DURUKAN İ., ÇİFTÇİ Y.
Computational Sciences Congress, 26 - 28 October 2018
- LV. **CeP : Structural, Electronic, Thermodynamic And Vibrational Properties By First Principles Calculations**
KARS DURUKAN İ., ÇİFTÇİ Y.
Computational Sciences Congress, 26 - 28 October 2018
- LVI. **A First-Principles Study of Pressure-induced Effects on Phase Transition, Elastic, Electronic and Vibrational Properties of CeSb Compound**
KARS DURUKAN İ., ÇİFTÇİ Y.
Computational Sciences Congress, 26 - 28 October 2018
- LVII. **Hydrogen Storage on Ca-decorated Rectangular Carbon Pentaheptite**
Alp İ., Çiftci Y.
II. International Congress on New Trends in Science, Engineering and Technology, Italy, 4 - 06 September 2018, pp.171
- LVIII. **Structural, Electronic And Elastic Properties of NaYC Compound Under Pressure**
ÇİFTÇİ Y., ALP İ.
II. International Congress on New Trends in Science, Engineering and Technology, Roma, Italy, 4 - 06 September 2018
- LIX. **Some Physical Properties of Optoelectronic Functional Material NaYSi : First-Principles Study**
ÇİFTÇİ Y., ALP İ.
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Turkey, 04 October 2018
- LX. **Electronic and Optical Properties of NaYPb Compound**
ALP İ., ÇİFTÇİ Y.
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Turkey, 04 October 2018
- LXI. **A Potential Half-Heusler Thermoelectric Material NaYGe: A First-Principles Study**
ÇİFTÇİ Y., ALP İ.
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Turkey, 04 October 2018
- LXII. **Hydrogen Adsorption Ability of Mg-decorated Graphene Allotrope**
Alp İ., Çiftci Y.
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018
- LXIII. **The Physical Properties of Ternary NaYSn Compound: A First-Principles Study**
ALP İ., ÇİFTÇİ Y.
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Turkey, 04 October 2018
- LXIV. **LiPb : Structural, Elastic, Electronic, Thermodynamic And Vibrational Properties By First Principles Calculations**
Çiftci Y., Alp İ., Moğulkoç Y.
II. International Congress on New Trends in Science, Engineering and Technology, Rome, Italy, 4 - 06 September 2018
- LXV. **High Pressure Physical Properties of AsPu Compound**
ALP İ., ÇİFTÇİ Y.
6. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 June 2018
- LXVI. **The Thermodynamical Properties of AsPr via First Principles**
ALP İ., ÇİFTÇİ Y.

6. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 June 2018
- LXXVII. **The Pressure Effects on Physical Properties of AlNi Compound in B2 Structure**
ÇİFTÇİ Y., ALP İ.
6. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 June 2018
- LXXVIII. **Exploration of Thermoelectricity in NaScGe Half Heusler Compound: A First Principle Study**
Çiftci Y., Alp İ.
6. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 June 2018
- LXIX. **A Theoretical Study of Pressure-Induced Effects on Phase Transition and Elastic Properties of AsTh Compound**
ÇİFTÇİ Y., ALP İ.
6. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 June 2018
- LXX. **Hydrogen Storage on Li-decorated YCrB4-type Graphene Allotrope**
ALP İ., ÇİFTÇİ Y.
6. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 June 2018
- LXXI. **The Structure, Electronic , Elastic and Vibrational Properties of SnNCa3 under pressure from First-Principles**
ÇİFTÇİ Y., EVECEN M.
4th International conference on Pure and Applied Sciences : Renewable Energies, İstanbul, Turkey, 23 - 25 November 2017
- LXXII. **An Ab-initio study on UAl for nuclear applications**
ÇİFTÇİ Y., ÖZCAN A., Alp İ.
3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, TESNAT 2017, Adana, Turkey, 10 - 12 May 2017, vol.154
- LXXIII. **RhAl: Structural, elastic, electronic, thermodynamic and vibrational properties by first principles calculations**
ÖZCAN A., ÇİFTÇİ Y., ALP İ.
Turkish Physical Society 33rd International Physical Congress, 6 - 10 September 2017, pp.636
- LXXIV. **The pressure effect on physical properties of CuTiS2**
ALP İ., ÇİFTÇİ Y.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017
- LXXV. **Pressure effects on electronic, elastic and vibration properties of metallic antiperovskite PbNCa3 by ab initio calculations**
ÇİFTÇİ Y., EVECEN M., ALP İ.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017
- LXXVI. **First- Principles Study of RuAl Compound in B2 Structure**
ÇİFTÇİ Y., ÖZCAN A., EVECEN M.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017, pp.612
- LXXVII. **The structural, elastic, electronic, optical and phonon properties of CuTiSe2**
ALP İ., ÇİFTÇİ Y.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017, pp.655
- LXXVIII. **ELECTRONIC AND MECHANICAL PROPERTIES OF HALF HEUSLER SEMICONDUCTOR LiScSn VIA FIRST-PRINCIPLES CALCULATIONS**
MOĞULKOÇ Y., ÇİFTÇİ Y.
TURKISH PHYSICAL SOCIETY 33rd INTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017
- LXXIX. **GeNCa3: Structure, electronic, elastic, and vibrational properties from first-principles**
ÇİFTÇİ Y., EVECEN M., ALP İ.
Turkish Physical Society 33 rd Internatioanl Physics Congress, Bodrum, Turkey, 6 - 10 September 2017, pp.614
- LXXX. **ELECTRONIC AND OPTICAL PROPERTIES OF SINGLE-LAYER STRAINED SNC**
MOĞULKOÇ Y., MODARRESİ M., MOĞULKOÇ A., ÇİFTÇİ Y., ALKAN Ş. B.
TURKISH PHYSICAL SOCIETY 33rd INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 6 - 10 September 2017
- LXXXI. **An ab-initio study of structural, elastic, elctronic and optical properties for chalcopyrite**

semiconductor CaSiN₂ compound

ÇİFTÇİ Y., ALP İ., MOĞULKOÇ Y.

5. European Conference on Renewable Energy Systems, Bosnia And Herzegovina, 27 - 30 August 2017

- LXXXII. **HIGH-PRESSURE EFFECT ON ZnSiN₂: A FIRST-PRINCIPLES STUDY**
ALP İ., ÇİFTÇİ Y.
5. European Conference on Renewable Energy Systems, Saraybosna, Bosnia And Herzegovina, 27 - 30 August 2017, pp.75
- LXXXIII. **THE CORROSION BEHAVIOUR OF ALUMINIUM MATRIXCOMPOSITES IN AQUEOUS 3.5 M NaCl SOLUTION**
AYTAÇ A., KEZBAN S., ÇİFTÇİ Y.
1th INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, İstanbul, Turkey, 25 - 28 April 2017, pp.920
- LXXXIV. **Ag Dekore Edilmiş ThMoB₄ Tipi Grafen Allotropunun Hidrojen Depolama Özelliklerinin İlk İlkeler Yöntemi İle İncelenmesi**
ALP İ., ÇİFTÇİ Y., AYDIN S.
22. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 16 December 2016
- LXXXV. **A FIRST PRINCIPLES STUDIES ON STRUCTURAL AND ELASTIC PROPERTIES OF Sr₂Ge COMPOUND**
ALP İ., ÇİFTÇİ Y.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016
- LXXXVI. **AB INITIO CALCULATIONS FOR THE OPTICAL AND PHONON PROPERTIES OF ANTI FLUORITE SEMICONDUCTOR Sr₂Sn**
ÇİFTÇİ Y., ALP İ.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016
- LXXXVII. **A THEORETICAL STUDY ON THE STRUCTURAL ELASTIC AND VIBRATIONAL PROPERTIES OF Sr₂Si COMPOUND**
ÇİFTÇİ Y., ALP İ.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016
- LXXXVIII. **THE PRESSURE DEPENDENCE OF THE SIGNIFICANT PHYSICAL PROPERTIES OF SEMICONDUCTOR Ba₂Si**
ALP İ., ÇİFTÇİ Y.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016
- LXXXIX. **First Principles Study on Electronic and Thermoelectric Properties for Half Heusler Semiconductor NaAlC Compound**
ÇİFTÇİ Y.
2nd International Congress on The World of Technology and Advanced Materials, 28 September - 02 October 2016
- XC. **First Principles Study on Half Heusler NaMgAs Compound**
ALP İ., ÇİFTÇİ Y.
2nd International Congress on The World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September - 02 October 2016
- XCI. **An ab initio Study of Structural Elastic Vibration and Optic Properties for Semiconductor NaAlGe Compound**
ÇİFTÇİ Y., ALP İ.
2nd International Congress on The World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September - 02 October 2016
- XCII. **A theoretical Study of Structural Elastic Vibration and Optic Properties for Half Heusler Semiconductor NaAlC Compound Using ab initio Method**

ÇİFTÇİ Y.

2nd International Congress on The World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September - 02 October 2016

- XCIII. Theoretical Investigations of Half Heusler Semiconductor NaMgP Compound with MgAgAs Structure**
Alp İ., Çiftci Y.
2nd International Congress on The World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September - 02 October 2016
- XCIV. Structural Elastic Electronic Vibrational of NaMgN Compound with MgAgAs Structure Under Pressure**
ALP İ., ÇİFTÇİ Y.
2nd International Congress on The World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September - 02 October 2016
- XCv. A DFT Study on Structural Phase Transition and Mechanical Properties of LiAl**
MOĞULKOÇ Y., ÇİFTÇİ Y., SÜRÜCÜ G.
2nd International Congress on The World of Technology and Advanced Material, Kırşehir, Turkey, 28 September - 02 October 2016
- XCvI. A DFT Study on Structural Phase Transition and Mechanical Properties of LiAl**
MOĞULKOÇ Y., ÇİFTÇİ Y., SÜRÜCÜ G.
2nd International Congress On The World Of Technology And Advanced Materials, 28 September - 02 October 2016
- XCvII. THE FIRST PRINCIPLES CALCULATIONS FOR THE STRUCTURAL ELASTIC ELECTRONIC AND VIBRATIONAL PROPERTIES OF ScHg**
ALP İ., ÇİFTÇİ Y.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
- XCvIII. FIRST PRINCIPLES INVESTGATIONS OF STRUCTURAL ELASTIC ELECTRONIC THERMODYNAMIC AND VIBRATIONALPROPERTIES OF LACD COMPOUND**
ÇİFTÇİ Y., ALP İ., MOĞULKOÇ Y., ÖZCAN A.
TURKISH PHYSICAL SOCIETY 32. INTERNATIONAL PHYSICS CONGRESS, 6 - 09 September 2016
- XCIX. The first principles investigation of LuXO3 X Al Ga In cubic Preovskite Oxides**
Sürücü G., ÇİFTÇİ Y., SÜRÜCÜ G.
Turkish Physical Soceiety 32 nd International Physics Congress, 6 - 09 September 2016
- C. AB INITIO CALCULATIONSO F YBCD INTERMETALLIC COMPOUND IN B2 STRUCTURE**
ÇİFTÇİ Y., ALP İ., ÖZCAN A.
TURKISH PHYSICAL SOCIETY 32. İNTERNATIONAL PHYSICS CONGRESS, 6 - 09 September 2016
- CI. Study of Structural Elastic Electronic Bonding Behaviour and Vibrational Properties in ScCd Compound By First Principles**
Çiftci Y., Alp İ.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
- CII. First Principles Investigations of Structural Elastic Electronic Thermodynamic and Vibrational Properties of LaCd Compound**
Çiftci Y., Alp İ., Moğulkoç Y., Özcan A.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
- CIII. The First Principles Calculations for the Structural Elastic Electronic and Vibrational Properties of ScHg**
Alp İ., Çiftci Y.
Turkish Physical Soceiety 32 nd Internatioanl Physics Congress, Muğla, Turkey, 6 - 09 September 2016, pp.334
- CIV. Ab initio Calculations of YbCd Intermetallic Compounds in B2 Structure**
ÇİFTÇİ Y., Alp İ., ÖZCAN A.
Turkish Physical Society 32 nd International Physical Congress, Turkey, 6 - 09 September 2016
- CV. PRESSURE DEPENDENCE OF THE PHYSICAL PROPERTIES FOR YbHg COMPOUND**
Alp İ., Çiftci Y.

Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016

- CVI. Electronic and optical properties of stack depended blue phosphorus**
MOĞULKOÇ Y., Modarresi M., Mogulkoç A., ÇİFTÇİ Y.
Turkish Physical Society 32 nd Internatioanl Physics congress, 6 - 09 September 2016
- CVII. Pressure dependence of physical properties for YbHg compound**
Alp İ., ÇİFTÇİ Y.
Turkish Physical Society 32 nd Internatioanl Physics congress, 6 - 09 September 2016
- CVIII. The First Principles Investigation Of LuXO3 Al Ga and In Cubic Perovskite Oxides**
sürücü G., ÇİFTÇİ Y., SÜRÜCÜ G.
Turkish Physical Society 32nd International Physics congress, 6 - 09 September 2016
- CIX. Hydrogen adsorption on lithium and beryllium decorated planar ThMoB4 type graphene allotrope**
ALP İ., AYDIN S., ÇİFTÇİ Y.
European Advanced Materials Congress 2016, Stockholm, Sweden, 23 - 25 August 2016
- CX. Hydrogen adsorption geometries on magnesium decorated planar ThMoB4 type graphene allotrope: A first principles study**
ALP İ., AYDIN S., ÇİFTÇİ Y.
European Advanced Materials Congress 2016, Stockholm, Sweden, 23 - 25 August 2016
- CXI. Hydrogen storage on nano level optimized pentaheptite graphene allotrope with sodium decoration**
ALP İ., AYDIN S., ÇİFTÇİ Y.
12th Nanoscience and Nanotechnology Conference, Kocaeli, Turkey, 3 - 05 June 2016
- CXII. Hydrogen adsorption on Ca decorated hexagonal planar carbon pentaheptite**
ALP İ., ÇİFTÇİ Y., AYDIN S.
12th Nanoscience and Nanotechnology Conference, Kocaeli, Turkey, 3 - 05 June 2016
- CXIII. Ab initio calculations of semiconductor LiScGe compound**
Çiftci Y., Alp İ.
2 nd International Conference on Organic Electronic Material Technologies (OEMT2016), Çanakkale, Turkey, 17 - 19 May 2016
- CXIV. Theoretical investigation of the electronic structure elastic dynamic properties of intermetallic compound NiBe under pressure**
EVECEN M., ÇİFTÇİ Y., ALDIRMAZ E.
2 nd International Conference on Organic Electronic Material Technologies (OEMT2016), 17 - 19 May 2016
- CXV. Structural mechanical electronic dynamic and optical properties of semiconductor half Heusler compound LiScSi under pressure from first principle study**
ÇİFTÇİ Y., EVECEN M.
2 nd International Conference on Organic Electronic Material Technologies (OEMT2016), 17 - 19 May 2016
- CXVI. The Effect of Pressure on Structural Electronic Elastic Vibration and Optical Properties of LiSc Compound**
Alp İ., Çiftci Y.
2 nd International Conference on Organic Electronic Material Technologies (OEMT2016), Çanakkale, Turkey, 17 - 19 May 2016
- CXVII. First Principles Study on UB6 for Nuclear Applications**
ÇİFTÇİ Y., ÖZCAN A., KILIÇ M.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, 28 - 30 April 2016
- CXVIII. PRESSURE DEPENDENCE of ELECTRONIC ELASTIC and PHONON PROPERTIES of TiSe2**
Alp İ., Çiftci Y.
1st International Physics Conference at the Anatolian Peak 2016, Erzurum, Turkey, 25 - 27 February 2016
- CXIX. THE ELECTRONIC STRUCTURE ELASTIC and VIBRATIONAL PROPERTIES of InPd UNDER PRESSURE via FIRST PRINCIPLES CALCULATIONS**
ÇİFTÇİ Y., ALP İ.
1st International Physics Conference at the Anatolian Peak 2016, Erzurum, Turkey, 25 - 27 February 2016

- CXX. **Analysis of the Structural, Electronic and Optic Properties of Ni Doped MgSiP₂ Semiconductor Chalcopyrite Compound**
Kocak B., ÇİFTÇİ Y.
9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015, vol.1722
- CXXI. **a-V₃PC₂ Bileşiğinin Mekanik, Elektronik, Titreşimsel ve Termodinamik Özelliklerinin Yoğunluk Fonksiyoneli Teorisiyle İncelenmesi**
ALTAY M., SÜRÜCÜ G., KEMAL Ç., ÇİFTÇİ Y.
21. Yoğun Madde Fiziği-Ankara Toplantısı, Gazi Üniversitesi, Ankara, Turkey, 25 December 2015
- CXXII. **Ta₃B₂ Bileşiğinin Yapısal, Elastik, Elektronik ve Titreşimsel Özelliklerinin İncelenmesi**
ALP İ., ÇİFTÇİ Y.
21. Yoğun Madde Fiziği - Ankara Toplantısı (YMF-21), Ankara, Turkey, 25 December 2015
- CXXIII. **Yarı-Heusler LiAlSi Bileşiğinin Yapısal, Elastik, Elektronik ve Dinamik Özelliklerinin İlk Prensiplerle İncelenmesi**
SÜRÜCÜ G., ÇİFTÇİ Y., SÜRÜCÜ G.
21. Yoğun Madde Fiziği-Ankara Toplantısı, Gazi Üniversitesi, Ankara, Turkey, 25 December 2015
- CXXIV. **Theoretical investigation of electronic structure bonding behavior and elastic moduli of ScRh and ScIr**
EVECEN M., ÇİFTÇİ Y.
2 nd Internatioanl Nanoscience and Nanotechnology for Next Generation Conference, Antalya, Turkey, 29 - 31 October 2015, pp.144
- CXXV. **B₂ Fazdaki Şekil Hafızalı Alaşım TaRu'nun Basınca Bağlı Fiziksel Özelliklerinin incelenmesi**
ALP İ., ÇİFTÇİ Y.
Adım Fizik Günleri IV, Kütahya, Turkey, 28 May 2015
- CXXVI. **LuMg Bileşiğinin Basınca Bağlı Temel Fiziksel Özelliklerinin Ab-initio Yöntemlerle İncelenmesi**
ÇİFTÇİ Y., ALP İ.
Yoğun Madde Fiziği – İzmir Toplantısı 2015, İzmir, Turkey, 17 April 2015
- CXXVII. **The first principles study on the TbP compound**
ÇİFTÇİ Y., MOĞULKOÇ Y., EVECEN M.
New Developments Computational Intelligent and Computer Science, Vienna, Austria, 15 - 17 March 2015, pp.163-169
- CXXVIII. **CeC₂ Bileşiğinin Elektronik, Elastik ve Titreşimsel Özelliklerinin Basınç Altında İncelenmesi**
ÇİFTÇİ Y., ALP İ.
20. Yoğun Madde Fiziği - Ankara Toplantısı, Ankara, Turkey, 26 December 2014
- CXXIX. **V₂PC Bileşiğinin Yapısal, Mekanik, Elektronik, Titreşimsel ve Termodinamik Özelliklerinin Ab-initio Yöntemle İncelenmesi**
ALTAY M., KEMAL Ç., ÇİFTÇİ Y., SÜRÜCÜ G.
Yoğun Madde Fiziği-İzmir Toplantısı, İzmir Yüksek Teknoloji Enstitüsü, İzmir, Turkey, 05 April 2014
- CXXX. **Structural, electronic and optical properties of hexagonal Si_{1-x}GexC alloys**
SÜRÜCÜ G., ÇOLAKOĞLU K., DELİGÖZ E., ÇİFTÇİ Y.
NanoTR-9, Erzurum, Turkey, 24 - 28 June 2013
- CXXXI. **InS Bileşiğinin Ab-initio Yöntemler İle İncelenmesi**
ALP İ., ÇOLAKOĞLU K., ÇİFTÇİ Y.
Yoğun Madde Fiziği – İzmir Toplantısı 2013, İzmir, Turkey, 05 April 2013
- CXXXII. **K₃As₇ bileşiğinin yapısal ve elastik özellikleri**
ÖZİŞİK H., ÇOLAKOĞLU K., ÇİFTÇİ Y., DELİGÖZ E., SÜRÜCÜ G., ALP İ.
18. Yoğun Madde Fiziği – Ankara Toplantısı, Ankara, Turkey, 25 November 2011
- CXXXIII. **NdCo₃ bileğiğinin elektronik band yapısı: Ab initio incelemesi**
ÖZİŞİK H., ÇOLAKOĞLU K., ÇİFTÇİ Y., DELİGÖZ E., ATEŞER E., ALP İ.
18. Yoğun Madde Fiziği - Ankara Toplantısı, Ankara, Turkey, 25 November 2011
- CXXXIV. **Lattice Dynamical and Thermodynamical Properties of Al₂Mg and Al₂Ca Compounds**

- DELİGÖZ E., ÇOLAKOĞLU K., ÖZİŞİK H., SÜRÜCÜ G., ÇİFTÇİ Y.
28.Tfd. International Physics Congress, Muğla, Turkey, 6 - 09 September 2011
- CXXXV. **Na₃As₇ ve Na₃As₁₁ Bileşiklerinin Yapısal, Elektronik ve Elastik Özellikleri**
ÖZİŞİK H., ÇOLAKOĞLU K., ÇİFTÇİ Y., DELİGÖZ E., SÜRÜCÜ G., ALP İ.
28.Tfd. International Physics Congress, Muğla, Turkey, 6 - 09 September 2011
- CXXXVI. **LiAl Bileşiğinin Yapısal, Elektronik, Elastik ve Termoelastik Özelliklerinin İncelenmesi**
ALP İ., ÇOLAKOĞLU K., ÇİFTÇİ Y., DELİGÖZ E.
16. Yoğun Madde Fiziği - Ankara Toplantısı, Ankara, Turkey, 06 November 2009
- CXXXVII. **A First Principles Studies of OsN**
ALP İ., ÇOLAKOĞLU K., ÇİFTÇİ Y., DELİGÖZ E.
Turkish Physical Society 26th International Physics Congress, Muğla, Turkey, 24 September 2009
- CXXXVIII. **Ab-Initio Total Energy Calculations on the AgNd Compound**
SÜRÜCÜ G., ÇOLAKOĞLU K., DELİGÖZ E., ÇİFTÇİ Y.
25. International Physics Congress, Muğla, Turkey, 25 - 29 August 2008
- CXXXIX. **The First-Principles Calculations on the NaP Compound**
ÖZİŞİK H., ÇOLAKOĞLU K., DELİGÖZ E., SÜRÜCÜ G., KÖRÖZLÜ N., ÇİFTÇİ Y.
25. International Physics Congress, 25 - 29 August 2008
- CXL. **YP bileşiğinin Yapısal, Elektronik, Elastik ve Titreşimsel Özellikleri Üzerinde ab initio Hesaplamaları**
SÜRÜCÜ G., KEMAL Ç., DELİGÖZ E., ÇİFTÇİ Y., ÖZİŞİK H.
14. Yoğun Madde Fiziği – Ankara Toplantısı, Hacettepe Üniversitesi, Ankara, Turkey, 02 November 2007
- CXLI. **Kübik Ruthenium Nitride (RuN) bileşiğinin Yapısal, elektronik ve Elastik Özelliklerinin ab initio yöntemle İncelenmesi**
ÖZİŞİK H., KEMAL Ç., DELİGÖZ E., ÇİFTÇİ Y., SÜRÜCÜ G.
14. Yoğun Madde Fiziği – Ankara Toplantısı, Ankara, Turkey, 02 November 2007 - 02 November 2017
- CXLII. **Structural, elastic and electronic properties of AlN: A first principles study**
Ciftci Y., Colakoglu K., Deligoz E.
International Conference on Superlattices, Nano-Structures and Nano-Devices, İstanbul, Turkey, 30 July - 04 August 2006, vol.4, pp.234-236
- CXLIII. **The first-principles calculations on the CuI compound**
Yuce G., Colakoglu K., Deligoz E., Ciftci Y.
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.674
- CXLIV. **First - Principles studies on structural and electronic properties of ThN**
Arslan S., Ciftci Y., Colakoglu K., Dellgoz E.
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.578
- CXLV. **The calculation of P-T diagrams of Al using molecular dynamic simulation**
Ciftci Y., Ugurluoglu N., Colakoglu K., Demircioglu Z.
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.590
- CXLVI. **Ab-initio total energy calculations on the AlBi compound**
Deligoz E., Colakoglu K., Ciftci Y.
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.593
- CXLVII. **High-speed characteristic features of an IR image converter with semiconductor photodetector,**
salamov b., KURT H. H., ÇİFTÇİ Y., Çolakoğlu K.
Turkish Phys. Soc. 7th Physics Confer., Antalya, Turkey, 10 - 13 September 1997

Supported Projects

- I. ÇİFTÇİ Y., Project Supported by Higher Education Institutions, TlX (X= Br, I, N, Pb, Se) bileşiklerinin yapısal, elastik, elektronik, termodinamik, titreşimsel ve optik özelliklerinin ab-initio yöntemlerle incelenmesi, 2012 - 2015
- II. ÇİFTÇİ Y., Project Supported by Higher Education Institutions, REC2 (RE= La, Ce, Pr, Pa, U) nadir toprak karbür

- bileşiklerinin temel fiziksel özelliklerinin ab-initio yöntemlerle incelenmesi, 2012 - 2015
- III. ÇİFTÇİ Y., Project Supported by Higher Education Institutions, Tbniktidlerinin yapısal, mekaniksel, elektronik ve titreşimsel özelliklerinin ab-initio yöntemlerle incelenmesi, 2010 - 2012
 - IV. ÇİFTÇİ Y., Project Supported by Higher Education Institutions, Bazı AB ve AB2 tür bileşiklerin yapısal, elastik, elektronik ve titreşimsel özelliklerinin ab-initio yöntemlerle incelenmesi, 2010 - 2011
 - V. ÇİFTÇİ Y., Project Supported by Higher Education Institutions, DİKKAT! Bu projenin 13.300.-'lik kısmı 05/2009-55 kodlu proje ile birleşmiştir. PrX(X=N, P, As,Sb,Bi) BİLEŞİKLERİNİN ELASTİK , ELEKTRONİK, YAPISAL VE TİTREŞİMSEL ÖZELLİKLERİNİN AB-INITIO YÖNTEMLERLE İNCELENMESİ PrX(X=N, P, As,Sb,Bi) BİLEŞİKLERİNİN ELASTİK , ELEKTRONİK, YAPISAL VE TİTREŞİMSEL ÖZELLİKLERİNİN AB-INITIO YÖNTEMLERLE İNCELENMESİ, 2009 - 2010
 - VI. ÇİFTÇİ Y., Project Supported by Higher Education Institutions, Bazı Bileşiklerinin Elastik, Elektronik ve Yapısal Özelliklerinin Ab-Initio Yöntemlerle İncelenmesi, 2008 - 2009
 - VII. ÇİFTÇİ Y., Project Supported by Higher Education Institutions, TIX(X=N,As,Sb,P) ve TİX(X=N,C) Bilesiklerinin Elastik,Elektronik ve Yapısal Özelliklerinin AB-INITIO Yöntemlerle İncelenmesi, 2007 - 2008

Tasks In Event Organizations

- I. Altındal Ş., Çiftci Y., Şahingöz R., Şafak Asar Y., Çetinkaya H. G., Altındal Yerişkin S., Özdemir E. G., Bucurgat M., Erbilen Tanrıkulu E., Ulusoy M., et al., 9th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG-2022), Scientific Congress, Ankara, Turkey, Eylül 2022

Metrics

Publication: 305
Citation (WoS): 1763
Citation (Scopus): 1812
H-Index (WoS): 23
H-Index (Scopus): 23

Congress and Symposium Activities

- I. 9th International Conference on Materials Science and Nanotechnology for Next Generation, Attendee, Ankara, Turkey, 2022
- II. 9th International Conference on Materials Science and Nanotechnology for Next Generation, Attendee, Ankara, Turkey, 2022
- III. 9th International Conference on Materials Science and Nanotechnology for Next Generation, Attendee, Ankara, Turkey, 2022
- IV. Nanotechnology Research and Applications, Attendee, Praha, Czech Republic, 2021
- V. International Conference on Advanced Materials Science and Engineering and High Tech Device Applications (ICMATSE 20), Invited Speaker, Ankara, Turkey, 2020

Coaching Duties

Refereeing Duties
