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Education Information

I. Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1996 - 2000
II. Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Yl) (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

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. ÇİFTCİ Y., The Investıgatıon Of Hydrogen Storage On Some Lıght Elements Decorated Two Dımensıonal Carbon Allotropes Usıng Ab-Inıtıo Methods, Doctorate, İ.ALP(Student), 2019
II. ÇİFTCİ Y., LuXO3 (X=Al, Ga, In) perovskit bileşiklerinin temel fiziksel özeliklerinin ab initio yöntemlerle incelenmesi, Postgraduate, G.SÜRÜCÜ(Student), 2018
III. ÇİFTCİ Y., Bazı AIIBIVC2V tipinde yarıiletken kalkopiritlerin temel fiziksel özelliklerinin ab-initio metot ile incelenmesi, Doctorate, B.KOÇAK(Student), 2016
IV. ÇİFTCİ Y., Bazı ikili ve/veya üçlü alaşımların temel fiziksel özelliklerinin yoğunluk fonksiyoneli teorisi ile incelenmesi, Doctorate, Y.MOĞULKOÇ(Student), 2013
V. ÇİFTCİ 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. ÇİFTCİ Y., STRUCTURAL PHASE TRANSITIONS AND ELASTIC STABILITY WITH EMBEDDED ATOM METHOD, Postgraduate, R.YİĞİTER(Student), 2007

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

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I. **Thermodynamics evaluation of half-metallic ferromagnetism in N-doped XTiO3 (X = Ca, Sr, and Ba) systems: DFT calculations**
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II. **The mechanical, dynamical, thermodynamical properties and elastic anisotropies of cubic YbAu compound under pressure**
KARS DURUKAN İ., EVECEN M., ÇİFTCİ Y.
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III. **A first-principles prediction on the structural, electronic, elastic, phonon, and transport properties of BaSiN2**
ÇİFTCİ Y., ALP İ.
INDIAN JOURNAL OF PHYSICS, vol.96, no.14, pp.4131-4141, 2022 (SCI-Expanded)

IV. **Systematic study of optoelectronic and thermoelectric properties of new lead-free halide double perovskites A(2)KGaI(6)(A = Cs, Rb) for solar cell applications via ab-initio calculations**
Mukhtar M. W., Ramzan M., Rashid M., Hussain A., Naz G., ÇİFTCİ Y., Dahshan A., Znaidia S.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.285, 2022 (SCI-Expanded)

V. **Pressure effects on structural, electronic and anisotopic elastic properties of Si doped RuGe compound with different concentrations by first-principles calculations**
ÇİFTCİ Y., ÇOBAN C., EVECEN M., Durukan İ. K.
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VI. **First-principles study on B2 based XAl(X = Rh, Ru)compounds**
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XI. **Ligand-free fabrication of Au/TiO2 nanostructures for plasmonic hot-electron-driven photocatalysis: Photoelectrochemical water splitting and organic-dye degredation**
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XII. **Pressure effects on electronic, elastic, and vibration properties of metallic antiperovskite PbNCa3 by ab initio calculations**

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EUROPEAN PHYSICAL JOURNAL B, vol.94, no.1, 2021 (SCI-Expanded)

XIV. **The pressure effect on optoelectronic and mechanical properties of chalcopyrite BeSiN2**
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Kars Durukan İ., Çiftci Y.
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Chiara R., ÇİFTCİ 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)

XVIII. **Exploring the role of halide mixing in lead-free BZA(2)SnX(4) two dimensional hybrid perovskites**
Pisanu A., Coduri M., Morana M., ÇİFTCİ Y., Rizzo A., Listorti A., Gaboardi M., Bindi L., Queloz V. I. E., Milanese C., et al.
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Obeid M. M., Mogulkoc Y., Edrees S. J., Ciftci Y., Shukur M. M., Al-Marzooqee M. M. H.
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Alp İ., AYDIN S., ÇİFTCİ Y.
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Kocak B., ÇİFTCİ Y.
INDIAN JOURNAL OF PHYSICS, vol.91, no.12, pp.1487-1492, 2017 (SCI-Expanded)

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JOURNAL OF ALLOYS AND COMPOUNDS, vol.705, pp.211-217, 2017 (SCI-Expanded)

XXX. **First-Principles Study on the Structural, Elastic, Electronic and Vibrational Properties of Scandium Based Intermetalic Compounds (ScX, X = Co, Rh and Ir) Under Pressure**
EVECEN M., ÇİFTCİ Y.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.12, no.2, pp.100-108, 2017 (SCI-Expanded)

XXXI. **The structural, elastic, electronic and dynamical properties of chalcopyrite semiconductor BeGeAs2 from first-principles calculations**
ÇİFTCİ Y., EVECEN M., ALDIRMAZ E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.123, no.1, 2017 (SCI-Expanded)

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Kocak B., Ciftci Y., Surucu G.
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Surucu G., Colakoglu K., Ciftci Y., Ozisik H. B., Deligoz E.
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L. **Ab initio calculations on the structural and lattice dynamical properties of TmX (X=As, P) compounds**
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XXXIII. **Ab-INITIO STUDY OF INTERMETALLIC BaZnIN B2 STRUCTURE FOR ELASTIC AND THERMODYNAMIC PROPERTIES UNDER PRESSURE**
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XXXIV. **EFFECTS OF COMPOSITIONS ON THE PROPERTIES OF Cu DOPED AuCdSHAPE MEMORY ALLOY : FIRST-PRINCIPLES STUDY**
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XXXV. **BOR INCORPORATION INTO YRh in B2 STRUCTURE: An AB-INITIO STUDY**
ÇİFTCİ Y., ALP İ.
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XXXVI. **THEORETICAL STUDY OF STRUCTURAL, ELASTIC ANISOTROPY, ELECTRONIC, AND VIBRATIONAL PROPERTIES OF CuBe COMPOUND**
KARS DURUKAN İ., ÇİFTCİ Y.
I.ULUSLARARASI 23 NİSANMULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, 20 - 23 April 2019

XXXVII. **FIRST-PRINCIPLES STUDY OF STRUCTURAL, ELASTIC, ELECTRONIC, THERMODYNAMIC PROPERTIES OF RuTi COMPOUND in B2 STRUCTURE**
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XXXVIII. **The Influence of Phosphorus Dopant on the Structural and Mechanical Properties of Silicon**
Ikhmayies S., ÇİFTCİ Y.
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XXXIX. **The Influence of Boron Dopant on the Structural and Mechanical Properties of Silicon: First Principles Study**
Ikhmayies S., ÇİFTCİ Y.
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XL. **The Pressure Effects on Physical Properties of CeZn Compound in B2 Structure**
KARS DURUKAN İ., ÇİFTCİ Y.
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XLI. **A First-Principles Study of Pressure-induced Effects on Phase Transition, Elastic and Electronic Properties of CeTe Compound**
KARS DURUKAN İ., ÇİFTCİ Y.
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XLII. **Pressure Effects on Electronic and Elastic Properties of Half-Heusler Semiconductor AgScSi for Optoelectronic Applications**
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XLIII. **Elastic and Electronic Properties of Zr Doped TiB (ZrxTi1-xB)Alloys By: First-Principles Study**
Çiftci Y., Alp İ.
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XLIV. **CeP : Structural, Electronic, Thermodynamic And Vibrational Properties By First Principles Calculations**
KARS DURUKAN İ., ÇİFTCİ Y.
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XLV. **Structural, Optic and Vibrational Properties of CeTl Using First-Principles Study**
KARS DURUKAN İ., ÇİFTCİ Y.
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XLVI. **A First-Principles Study of Pressure-induced Effects on Phase Transition, Elastic, Electronic and Vibrational Properties of CeSb Compound**
KARS DURUKAN İ., ÇİFTCİ Y.
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XLVII. **Hydrogen Storage on Ca-decorated Rectangular Carbon Pentaheptite**
Alp İ., Çiftci Y.
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XLVIII. **Structural, Electronic And Elastic Properties of NaYC Compound UnderPressure**
ÇİFTCİ Y., ALP İ.
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XLIX. **A Potential Half-Heusler Thermolectric Material NaYGe: A First-Principles Study**
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LI. **Electronic and Optical Properties of NaYPb Compound**
ALP İ., ÇİFTCİ Y.
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LII. **Some Physical Properties of Optoelectronic Functional Material NaYSi : First-Principles Study**
ÇİFTCİ Y., ALP İ.
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LIII. **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

LIV. **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

LV. **The Thermodynamical Properties of AsPr via First Principles**
ALP İ., ÇİFTCİ Y.

6. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 June 2018

LVI. **High Pressure Physical Properties of AsPu Compound**
ALP İ., ÇİFTCİ Y.
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LVII. **Exploration of Thermoelectricity in NaScGe Half Heusler Compound: A First Principle Study**
ALP İ., ÇİFTCİ Y.
6. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 June 2018

LVIII. **A Theoretical Study of Pressure-Induced Effects on Phase Transition and Elastic Properties of AsTh Compound**
ÇİFTCİ Y., ALP İ.
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LIX. **Hydrogen Storage on Li-decorated YCrB4-type Graphene Allotrope**
ALP İ., ÇİFTCİ Y.
6. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 June 2018

LX. **The Pressure Effects on Physical Properties of AlNi Compound in B2 Structure**
ÇİFTCİ Y., ALP İ.
6. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Turkey, 25 June 2018

LXI. **The Structure, Electronic , Elastic and Vibrational Properties of SnNCa3 under pressure from First-Principles**
ÇİFTCİ Y., EVECEN M.
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LXII. **An Ab-initio study on UAl for nuclear applications**
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LXIII. **First- Principles Study of RuAl Compound in B2 Strsucture**
ÇİFTCİ Y., ÖZCAN A., EVECEN M.
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LXIV. **GeNCa3: Structure, electronic, elastic, and vibrational properties from first-principles**
ÇİFTCİ Y., EVECEN M., ALP İ.
Turkish Physical Society 33 rd Internatioanl Physics Congress, Bodrum, Turkey, 6 - 10 September 2017, pp.614

LXV. **The structural, elastic, electronic, optical and phonon properties of CuTlSe2**
ALP İ., ÇİFTCİ Y.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017, pp.655

LXVI. **Pressure effects on electronic, elastic and vibration properties of metallic antiprevskite PbNCa3 by ab initio calculations**
ÇİFTCİ Y., EVECEN M., ALP İ.
Turkish Physical Soeciety 33rd International Physics Congress, 6 - 10 September 2017

LXVII. **ELECTRONIC AND MECHANICAL PROPERTIES OF HALF HEUSLER SEMICONDUCTOR LiScSn VIA FIRST-PRINCIPLES CALCULATIONS**
MOĞULKOÇ Y., ÇİFTCİ Y.
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LXVIII. **ELECTRONIC AND OPTICAL PROPERTIES OF SINGLE-LAYER STRAINED SNC**
MOĞULKOÇ Y., MODARRESI M., MOĞULKOÇ A., ÇİFTCİ Y., ALKAN Ş. B.
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LXIX. **The pressure effect on physical properties of CuTlS2**
ALP İ., ÇİFTCİ Y.
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LXX. **RhAl: Structural, elastic, electronic, thermodynamic and vibrational properties by first principles calculations**

ÖZCAN A., ÇİFTCİ Y., ALP İ.
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LXXI. **An ab-initio study of structural, elastic, elctronic and optical properties for chalcopyrite semiconductor CaSiN2 compound**
ÇİFTCİ Y., ALP İ., MOĞULKOÇ Y.
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ALP İ., ÇİFTCİ Y.
5. European Conference on Renewable Energy Systems, Saraybosna, Bosnia And Herzegovina, 27 - 30 August 2017, pp.75

LXXIII. **THE CORROSION BEHAVIOUR OF ALUMINIUM MATRIXCOMPOSITES IN AQUEOUS 3.5 M NaCl SOLUTION**
AYTAÇ A., KEZBAN S., ÇİFTCİ Y.
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LXXIV. **Ag Dekore Edilmiş ThMoB4 Tipi Grafen Allotropunun Hidrojen Depolama Özelliklerinin İlk İlkeler Yöntemi İle İncelenmesi**
ALP İ., ÇİFTCİ Y., AYDIN S.
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LXXV. **A FIRST PRINCIPLES STUDIES ON STRUCTURAL AND ELASTIC PROPERTIES OF Sr2Ge COMPOUND**
ALP İ., ÇİFTCİ Y.
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LXXVI. **THE PRESSURE DEPENDENCE OF THE SIGNIFICANT PHYSICAL PROPERTIES OF SEMICONDUCTOR Ba2Si**
ALP İ., ÇİFTCİ Y.
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LXXVII. **A THEORETICAL STUDY ON THE STRUCTURAL ELASTIC AND VIBRATIONAL PROPERTIES OF Sr2Si COMPOUND**
ÇİFTCİ Y., ALP İ.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016

LXXVIII. **AB INITIO CALCULATIONS FOR THE OPTICAL AND PHONON PROPERTIES OF ANTI FLUORITE SEMICONDUCTOR Sr2Sn**
ÇİFTCİ Y., ALP İ.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016

LXXIX. **A theoretical Study of Structural Elastic Vibration and Optic Properties for Half Heusler Semiconductor NaAlC Compound Using ab initio Method**
ÇİFTCİ Y.
2nd International Congress on The World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September - 02 October 2016

LXXX. **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

LXXXI. **An ab initio Study of Structural Elastic Vibration and Optic Properties for Semiconductor NaAlGe Compound**
ÇİFTCİ Y., ALP İ.
2nd International Congress on The World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September -

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

LXXXIII. **A DFT Study on Structural Phase Transition and Mechanical Properties of LiAl**
MOĞULKOÇ Y., ÇİFTCİ Y., SÜRÜCÜ G.
2nd International Congress on The World of Technology and Advanced Material, Kırşehir, Turkey, 28 September - 02 October 2016

LXXXIV. **First Principles Study on Electronic and Thermoelectric Properties for Half Heusler Semiconductor NaAlC Compound**
ÇİFTCİ Y.
2nd International Congress on The World of Technology and Advanced Materials, 28 September - 02 October 2016

LXXXV. **First Principles Study on Half Heusler NaMgAs Compound**
ALP İ., ÇİFTCİ Y.
2nd International Congress on The World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September - 02 October 2016

LXXXVI. **A DFT Study on Structural Phase Transition and Mechanical Properties of LiAl**
MOĞULKOÇ Y., ÇİFTCİ Y., SÜRÜCÜ G.
2nd International Congress On The World Of Technology And Advanced Materials, 28 September - 02 October 2016

LXXXVII. **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

LXXXVIII. **FIRST PRİNCİPLES INVESTGATIONS OF STRUCTURAL ELASTIC ELECTRONIC THERMODYNAMIC AND VIBRATIONALPROPERTIES OF LACD COMPOUND**
ÇİFTCİ Y., ALP İ., MOĞULKOÇ Y., ÖZCAN A.
TURKISH PHYSİCAL SOCIETY 32. INTERNATIONAL PHYSICS CONGRESS, 6 - 09 September 2016

LXXXIX. **Electronic and optical properties of stack depended blue phosphorus**
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Turkish Physical Soceiety 32 nd Internatioanl Physics congress, 6 - 09 September 2016

XC. **Pressure dependence of physical properties for YbHg compound**
Alp İ., ÇİFTCİ Y.
Turkish Physical Socienty 32 nd Internatioanl Physics congress, 6 - 09 September 2016

XCI. **The first principles investigation of LuXO3 X Al Ga In cubic Preovskite Oxides**
Sürücü G., ÇİFTCİ Y., SÜRÜCÜ G.
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XCII. **Ab initio Calculations of YbCd Intermetallic Compounds in B2 Structure**
ÇİFTCİ Y., Alp İ., ÖZCAN A.
Turkish Physical Society 32 nd International Physical Congress, Turkey, 6 - 09 September 2016

XCIII. **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

XCIV. **THE FIRST PRINCIPLES CALCULATIONS FOR THE STRUCTURAL ELASTIC ELECTRONIC AND VIBRATIONAL PROPERTIES OF ScHg**
ALP İ., ÇİFTCİ Y.
Turkish Physical Society 32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016

XCV. **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

XCVI. **AB INITIO CALCULATIONSOF YBCD INTERMETALLIC COMPOUND IN B2 STRUCTURE**

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TURKISH PHYSICAL SOCİETY 32. İNTERNATIONAL PHYSICS CONGRESS, 6 - 09 September 2016

XCVII. **First Principles Investigations of Structural Elastic Electronic Thermodynamic and Vibrational Properties of LaCd Compound**

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XCVIII. **The First Prenciples Investigation Of LuXO3 Al Ga and In Cubic Perovskite OxIdes**

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XCIX. **Hydrogen adsorption on lithium and beryllium decorated planar ThMoB4 type graphene allotrope**

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CIX. **THE ELECTRONIC STRUCTURE ELASTIC and VIBRATIONAL PROPERTIES of InPd UNDER PRESSURE**

via FIRST PRINCIPLES CALCULATIONS
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CXI. **Ta3B2 Bileşiğinin Yapısal, Elastik, Elektronik ve Titreşimsel Özelliklerinin İncelenmesi**
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CXII. **Yarı-Heusler LiAlSi Bileşiğinin Yapısal, Elastik, Elektronik ve Dinamik Özelliklerinin İlk Prensiplerle İncelenmesi**
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CXIV. **Theoretical investigation of electronic structure bonding behavior and elastic moduli of ScRh and ScIr**
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CXV. **B2 Fazdaki Şekil Hafızalı Alaşım TaRu'nun Basınca Bağlı Fiziksel Özelliklerinin incelenmesi**
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II. ÇİFTCİ 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. ÇİFTCİ Y., Project Supported by Higher Education Institutions, Tb pniktidlerinin yapısal, mekaniksel, elektronik ve titreşimsel özelliklerinin ab-initio yöntemlerle incelenmesi, 2010 - 2012
IV. ÇİFTCİ 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. ÇİFTCİ 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. ÇİFTCİ Y., Project Supported by Higher Education Institutions, Bazı Bileşiklerinin Elastik, Elektronik ve Yapısal Özelliklerinin Ab-İnitio Yöntemlerle İncelenmesi, 2008 - 2009
VII. ÇİFTCİ Y., Project Supported by Higher Education Institutions, TIX(X=N,As.Sb,P) ve TİX(X=N,C) Bilesiklerinin Elastik,Elekronik ve Yapısal Özelliklerinin AB-INITIO Yöntemlerle İncelenmesi, 2007 - 2008

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Congress and Symposium Activities

I. Nanotechnology Research and Applications, Attendee, Praha, Czech Republic, 2021
II. International Conference on Advanced Materials Science and Engineering and High Tech Device Applications (ICMATSE 20), Invited Speaker, Ankara, Turkey, 2020

Coaching Duties

Refereeing Duties