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Yabancı Diller

İngilizce, B2 Orta Üstü

Sertifika, Kurs ve Eğitimler

Mesleki Kurs, Uluslararası Yayın Yapma Teknikleri Kursu, Gazi Üniversitesi Akademik Yazma Uygulama Ve Araştırma Merkezi, 2019

Yaptığı Tezler

Doktora, Bazı Hafif Elementler İle Dekore Edilmiş İki Boyutlu Karbon Allotroplarının Üzerine Hidrojen Depolama Özelliklerinin Ab-initio Yöntemlerle İncelenmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, 2019

Yüksek Lisans, İndiyum çalkojenlerin yapısal, mekanik ve elektronik özelliklerinin Ab- initio yöntemlerle incelenmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2012

Araştırma Alanları

Fizik, Disiplinlerarası Fizik ve İlgili Bilim ve Teknoloji Alanları, Yoğun Madde 1:Yapısal, Mekanik ve Termal Özellikler, Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Gazi Üniversitesi, Fen Fakültesi, Fizik, 2023 - Devam Ediyor

Araştırma Görevlisi Dr., Gazi Üniversitesi, Fen Fakültesi, Fizik, 2009 - 2023

Akademik İdari Deneyim

Bölüm Akreditasyon Komisyonu Üyesi, Gazi Üniversitesi, Fen Fakültesi, Fizik, 2020 - Devam Ediyor

Kalite Güvencesi ve Derecelendirme Kalite Komisyonu Bölüm Üyesi, Gazi Üniversitesi, Fen Fakültesi, Fizik, 2017 - 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A first-principles prediction on the structural, electronic, elastic, phonon, and transport properties of BaSiN₂**
ÇİFTÇİ Y., ALP İ.
INDIAN JOURNAL OF PHYSICS, cilt.96, sa.14, ss.4131-4141, 2022 (SCI-Expanded)
- II. **Pressure effects on electronic, elastic, and vibration properties of metallic antiperovskite PbNCa₃ by ab initio calculations**
Ciftci Y., Evecen M., Alp İ.
Journal of Molecular Modeling, cilt.27, sa.1, 2021 (SCI-Expanded)
- III. **Hydrazine decomposition on nickel-embedded graphene**
GENÇ A. E., KÜÇÜK H., ALP İ., AKÇA A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.45, sa.58, ss.33407-33418, 2020 (SCI-Expanded)
- IV. **The pressure effect on optoelectronic and mechanical properties of chalcopyrite BeSiN₂**
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- V. **First-principles hydrogen adsorption properties of Li-decorated ThMoB₄-type graphene**
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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, sa.33, ss.16117-16127, 2018 (SCI-Expanded)
- VI. **Physical Properties of Superhard Diamond-Like BC₅ from a First-Principles Study**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **285 nm AlGa_N-BASED DEEP-ULTRAVIOLET LED WITH HIGH INTERNAL QUANTUM EFFICIENCY: COMPUTATIONAL DESIGN**
ALP İ., ÖNER B. B., EROĞLU E.
Journal of scientific reports-A (Online), sa.052, ss.51-64, 2023 (Hakemli Dergi)
- II. **Quantum Efficiency Improvement of InGa_N Near Ultraviolet LED Design by Genetic Algorithm**
ALP İ., ÖNER B. B., EROĞLU E., ÇİFTÇİ Y.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, cilt.27, sa.1, ss.94-112, 2023 (Hakemli Dergi)

Kitap & Kitap Bölümleri

- I. **THE DISSOCIATION REACTION OF METHANE ON TI-AND CO-EMBEDDED GRAPHENE: A DFT STUDY**
Akça A., Alp İ.
Theory and Research in Science and Mathematics, Prof. Dr. E. Nihal ERCAN, Prof. Dr. Hasan AKGÜL, Editör, Gece Publishing, Ankara, ss.45-64, 2020

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **SIGNIFICANT PHYSICAL PROPERTIES OF RuSi COMPOUND UNDER PRESSURE**
Alp İ., Gemici İ. A., Çiftci Y.
3rd International Congress on Contemporary Scientific Research, Adana, Türkiye, 7 - 08 Ağustos 2023, ss.148-153
- II. **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, Türkiye, 20 Aralık 2022

- III. **ALPd Bileşiminin Termodinamik Özellikleri**
Çorbacı G., Akkuş C., ALP İ., ÇİFTÇİ Y.
YMF Ankara - 27, Ankara, Türkiye, 16 Aralık 2022
- IV. **Light Extraction Efficiency Enhancement of InGaN Near UV LEDs by Genetic Algorithm**
Öner B., Alp İ., Eroğlu E., Aydın S. Ş., Çiftçi Y.
International Conference on Advanced Materials Science and Engineering and High Tech Device Applications (ICMATSE 20), Ankara, Türkiye, 02 Ekim 2020
- V. **Hydrogen Storage on Sc-decorated Single-vacancy Phosphorene**
Alp İ., Akça A.
Turkish Physical Society-36th International Physics Congress (TPS-36), Muğla, Türkiye, 1 - 05 Eylül 2020, ss.88
- VI. **Optimization of ZnO-based Near UV Solar Cell and Light Emitting Devices**
Öner B. B., Alp İ., Eroğlu E., Aydın S. Ş., Çiftçi Y.
8th EUROPEAN CONFERENCE on RENEWABLE ENERGY SYSTEMS, İstanbul, Türkiye, 24 - 25 Ağustos 2020, ss.39
- VII. **H₂S dissociation and adsorption on Cu-embedded graphene surface: A DFT study**
AKÇA A., ALP İ.
2. INTERNATIONAL EUROPEAN CONFERENCE ON INTERDISCIPLINARY SCIENTIFIC RESEARCHES, Türkiye, 04 Temmuz 2020
- VIII. **BOR INCORPORATION INTO YRh in B2 STRUCTURE: An AB-INITIO STUDY**
Çiftçi Y., Alp İ.
1. Uluslararası 23 Nisan Multidisipliner Çalışmalar Kongresi, Ankara, Türkiye, 20 - 23 Nisan 2019, ss.170-174
- IX. **Elastic and Electronic Properties of Zr Doped TiB (Zr_xTi_{1-x}B) Alloys By: First-Principles Study**
Çiftçi Y., Alp İ.
5th International conference on materials science and nanotechnology for next generation (MSNG2018), Nevşehir, Türkiye, 4 - 06 Ekim 2018, ss.266-269
- X. **Hydrogen Storage on Ca-decorated Rectangular Carbon Pentaheptite**
Alp İ., Çiftçi Y.
II. International Congress on New Trends in Science, Engineering and Technology, İtalya, 4 - 06 Eylül 2018, ss.171
- XI. **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, İtalya, 4 - 06 Eylül 2018
- XII. **A Potential Half-Heusler Thermoelectric Material NaYGe: A First-Principles Study**
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- XIII. **Hydrogen Adsorption Ability of Mg-decorated Graphene Allotrope**
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- XIV. **Some Physical Properties of Optoelectronic Functional Material NaYSi : First-Principles Study**
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- XV. **The Physical Properties of Ternary NaYSn Compound: A First-Principles Study**
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- XVI. **Electronic and Optical Properties of NaYPb Compound**
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- XVII. **Exploration of Thermoelectricity in NaScGe Half Heusler Compound: A First Principle Study**

- Çiftci Y., Alp İ.
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- XVIII. **A Theoretical Study of Pressure-Induced Effects on Phase Transition and Elastic Properties of AsTh Compound**
ÇİFTCİ Y., ALP İ.
6. European Conference on Renewable Energy Systems (ECRES 2018), İstanbul, Türkiye, 25 Haziran 2018
- XIX. **The Pressure Effects on Physical Properties of AlNi Compound in B2 Structure**
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- XX. **High Pressure Physical Properties of AsPu Compound**
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- XXI. **The Thermodynamical Properties of AsPr via First Principles**
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- XXII. **Hydrogen Storage on Li-decorated YCrB4-type Graphene Allotrope**
ALP İ., ÇİFTCİ Y.
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- XXIII. **An Ab-initio study on UAl for nuclear applications**
ÇİFTCİ Y., ÖZCAN A., Alp İ.
3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, TESNAT 2017, Adana, Türkiye, 10 - 12 Mayıs 2017, cilt.154
- XXIV. **RhAl: Structural, elastic, electronic, thermodynamic and vibrational properties by first principles calculations**
ÖZCAN A., ÇİFTCİ Y., ALP İ.
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- XXV. **The pressure effect on physical properties of CuTiS2**
ALP İ., ÇİFTCİ Y.
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- XXVI. **Pressure effects on electronic, elastic and vibration properties of metallic antiperovskite PbNca3 by ab initio calculations**
ÇİFTCİ Y., EVECEN M., ALP İ.
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- XXVII. **The structural, elastic, electronic, optical and phonon properties of CuTiSe2**
ALP İ., ÇİFTCİ Y.
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- XXVIII. **GeNca3: Structure, electronic, elastic, and vibrational properties from first-principles**
ÇİFTCİ Y., EVECEN M., ALP İ.
Turkish Physical Society 33rd International Physics Congress, Bodrum, Türkiye, 6 - 10 Eylül 2017, ss.614
- XXIX. **An ab-initio study of structural, elastic, electronic and optical properties for chalcopyrite semiconductor CaSiN2 compound**
ÇİFTCİ Y., ALP İ., MOĞULKOÇ Y.
5. European Conference on Renewable Energy Systems, Bosna-Hersek, 27 - 30 Ağustos 2017
- XXX. **DFT DESCRIPTION ON OPTICAL AND ELECTRONIC BEHAVIOR OF MgSiN2**
ALP İ., ÇİFTCİ Y.
5. European Conference on Renewable Energy Systems, Saraybosna, Bosna-Hersek, 27 - 30 Ağustos 2017, ss.77
- XXXI. **FIRST-PRINCIPLES STUDY OF OF STRUCTURAL, ELASTIC, ELECTRONIC AND THERMOELECTRIC PROPERTIES FOR BaSiN2**
ÇİFTCİ Y., ALP İ.
5. European Conference on Renewable Energy Systems, Saraybosna, Bosna-Hersek, 27 - 30 Ağustos 2017, ss.72
- XXXII. **HIGH-PRESSURE EFFECT ON ZnSiN2: A FIRST-PRINCIPLES STUDY**

- ALP İ., ÇİFTÇİ Y.
5. European Conference on Renewable Energy Systems, Saraybosna, Bosna-Hersek, 27 - 30 Ağustos 2017, ss.75
- XXXIII. **AB-INITIO CALCULATIONS ON THE THERMOELECTRIC PROPERTIES OF SrSiN₂**
ALP İ., ÇİFTÇİ Y.
5. European Conference on Renewable Energy Systems, Saraybosna, Bosna-Hersek, 27 - 30 Ağustos 2017, ss.76
- XXXIV. **FIRST -PRINCIPLES STUDY ON SEMICONDUCTOR BeSiN₂ WITH CHALCOPYRITE STRUCTURE UNDER PRESSURE**
ÇİFTÇİ Y., ALP İ.
5. European Conference on Renewable Energy Systems, Saraybosna, Bosna-Hersek, 27 - 30 Ağustos 2017, ss.73
- XXXV. **FIRST-PRINCIPLES STUDY OF SEMICONDUCTOR LiCaN COMPOUND**
Çiftci Y., Alp İ., Aytaç A.
1th INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, İstanbul, Türkiye, 25 - 28 Nisan 2017, ss.275
- XXXVI. **THEORETICAL INVESTIGATIONS OF HALF HEUSLER SEMICONDUCTOR LiCaSb COMPOUND WITH MGAGAS STRUCTURE UNDER PRESSURE**
Çiftci Y., Alp İ.
1th INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, İstanbul, Türkiye, 25 - 28 Nisan 2017, ss.274
- XXXVII. **AN AB-INITIO STUDY RELATED TO THE OPTICAL CHARACTER OF LiBEN**
ALP İ., ÇİFTÇİ Y.
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- XXXVIII. **FIRST-PRINCIPLES CALCULATIONS OF SEMICONDUCTOR LiBeP COMPOUND**
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1. INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: İSTANBUL 2017, İstanbul, Türkiye, 25 - 28 Nisan 2017
- XXXIX. **A THEORETICAL STUDY OF STRUCTURAL, ELASTIC, VIBRATION, AND THERMODYNAMIC PROPERTIES FOR HALF-HEUSLER SEMICONDUCTOR LiCaAs COMPOUND USING AB-INITIO METHOD**
Çiftci Y., Alp İ.
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- XL. **THE GROUND STATE PHONON PROPERTIES OF LiBeAs WITHIN DENSITY FUNCTIONAL THEORY**
Alp İ., Çiftci Y.
1th INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, İstanbul, Türkiye, 25 - 28 Nisan 2017, ss.277
- XLI. **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, Türkiye, 16 Aralık 2016
- XLII. **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, Türkiye, 26 - 28 Ekim 2016
- XLIII. **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, Türkiye, 26 - 28 Ekim 2016
- XLIV. **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, Türkiye, 26 - 28 Ekim 2016
- XLV. **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, Türkiye, 26 - 28 Ekim 2016
- XLVI. **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, Türkiye, 28 Eylül - 02 Ekim 2016
- XLVII. **First Principles Study on Half Heusler NaMgAs Compound**
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- XLVIII. **An ab initio Study of Structural Elastic Vibration and Optic Properties for Semiconductor NaAlGe Compound**
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- XLIX. **Theoretical Investigations of Half Heusler Semiconductor NaMgP Compound with MgAgAs Structure**
Alp İ., Çiftci Y.
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- L. **Ab initio Calculations of YbCd Intermetallic Compounds in B2 Structure**
ÇİFTÇİ Y., Alp İ., ÖZCAN A.
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- LI. **Study of Structural Elastic Electronic Bonding Behaviour and Vibrational Properties in ScCd Compound By First Principles**
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- LII. **First Principles Investigations of Structural Elastic Electronic Thermodynamic and Vibrational Properties of LaCd Compound**
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- LIII. **THE FIRST PRINCIPLES CALCULATIONS FOR THE STRUCTURAL ELASTIC ELECTRONIC AND VIBRATIONAL PROPERTIES OF ScHg**
ALP İ., ÇİFTÇİ Y.
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- LIV. **PRESSURE DEPENDENCE OF THE PHYSICAL PROPERTIES FOR YbHg COMPOUND**
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- LV. **Hydrogen adsorption on lithium and beryllium decorated planar ThMoB₄ type graphene allotrope**
ALP İ., AYDIN S., ÇİFTÇİ Y.
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- LVI. **Hydrogen adsorption geometries on magnesium decorated planar ThMoB₄ type graphene allotrope: A first principles study**
ALP İ., AYDIN S., ÇİFTÇİ Y.
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- LVII. **Hydrogen storage on nano level optimized pentaheptite graphene allotrope with sodium decoration**

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- LVIII. **Hydrogen adsorption on Ca decorated hexagonal planar carbon pentaheptite**
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- LIX. **The Effect of Pressure on Structural Electronic Elastic Vibration and Optical Properties of LiScC Compound**
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- LX. **Ab initio calculations of semiconductor LiScGe compound**
Çiftci Y., Alp İ.
2 nd International Conference on Organic Electronic Material Technologies (OEMT2016), Çanakkale, Türkiye, 17 - 19 Mayıs 2016
- LXI. **PRESSURE DEPENDENCE of ELECTRONIC ELASTIC and PHONON PROPERTIES of TiSe2**
Alp İ., Çiftci Y.
1st International Physics Conference at the Anatolian Peak 2016, Erzurum, Türkiye, 25 - 27 Şubat 2016
- LXII. **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, Türkiye, 25 - 27 Şubat 2016
- LXIII. **Ta3B2 Bileşiğinin Yapısal, Elastik, Elektronik ve Titreşimsel Özelliklerinin İncelenmesi**
ALP İ., ÇİFTÇİ Y.
21. Yoğun Madde Fiziği - Ankara Toplantısı (YMF-21), Ankara, Türkiye, 25 Aralık 2015
- LXIV. **B2 Fazdaki Şekil Hafızalı Alaşım TaRu'nun Basınca Bağlı Fiziksel Özelliklerinin incelenmesi**
ALP İ., ÇİFTÇİ Y.
Adım Fizik Günleri IV, Kütahya, Türkiye, 28 Mayıs 2015
- LXV. **LuMg Bileşiğinin Basınca Bağlı Temel Fiziksel Özelliklerinin Ab-initio Yöntemlerle İncelenmesi**
ÇİFTÇİ Y., ALP İ.
Yoğun Madde Fiziği - İzmir Toplantısı 2015, İzmir, Türkiye, 17 Nisan 2015
- LXVI. **CeC2 Bileşiğinin Elektronik, Elastik ve Titreşimsel Özelliklerinin Basınç Altında İncelenmesi**
ÇİFTÇİ Y., ALP İ.
20. Yoğun Madde Fiziği - Ankara Toplantısı, Ankara, Türkiye, 26 Aralık 2014
- LXVII. **InS Bileşiğinin Ab-initio Yöntemler İle İncelenmesi**
ALP İ., ÇOLAKOĞLU K., ÇİFTÇİ Y.
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- LXVIII. **In2S3 Bileşiğinin Ab-Initio yöntemler ile incelenmesi**
ALP İ., ÇOLAKOĞLU K., ÖZİŞİK H., ÖZİŞİK H.
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- LXIX. **NdCo3 bileşiğinin 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, Türkiye, 25 Kasım 2011
- LXX. **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, Türkiye, 25 Kasım 2011
- LXXI. **First-principles studies of the structural, elastic, electronic, and thermodynamic properties of InSe compound**
ALP İ., ÇOLAKOĞLU K., ÖZİŞİK H., ÖZİŞİK H.
Turkish Physical Society 28th International Physics Congress, Muğla, Türkiye, 06 Eylül 2011
- LXXII. **Na3As7 ve Na3As11 Bileşiklerinin Yapısal, Elektronik ve Elastik Özellikleri**
ÖZİŞİK H., ÇOLAKOĞLU K., ÇİFTÇİ Y., DELİGÖZ E., SÜRÜCÜ G., ALP İ.

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LXXIII. First Principles Study Of Sodium Hexafluoroantimonate

ÖZİŞİK H., ÇOLAKOĞLU K., ATEŞER E., DELİGÖZ E., ÖZİŞİK H., ALP İ.

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LXXIV. Ab-initio yöntemlerle InTe bileşiğinin incelenmesi

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17. Yoğun Madde Fiziği - Ankara Toplantısı, Ankara Üniversitesi, Ankara, Türkiye, 05 Kasım 2010

LXXV. First-principles studies of In₂Se₃ compound

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LXXVI. LiAl Bileşiğinin Yapısal, Elektronik, Elastik ve Termoelastik Özelliklerinin İncelenmesi

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LXXVII. A First Principles Studies of OsN

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