

Prof. GÖKAY UĞUR

Personal Information

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ScopusID: 55908046100

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1995 - 1999

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), Turkey 1990 - 1994

Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1985 - 1988

Dissertations

Doctorate, Bazı Fe-bazlı alaşımaların örgü dinamiği ve bir ince film çalışması, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 1999

Postgraduate, Fe_{1-x}Pdx (X=0,28 0,90 0,96) alaşımalarında örgü dinamiği, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), 1994

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik, 2013 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Fizik, 2008 - 2013

Assistant Professor, Gazi University, Fen Fakültesi, Fizik, 2002 - 2008

Research Assistant, Gazi University, Fen Fakültesi, Fizik, 1993 - 2002

Academic and Administrative Experience

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Gazi University, Fen Fakültesi, Fizik, 2019 - 2020

Fakülte Yönetim Kurulu Üyesi, Gazi University, Polatlı Fen-Edebiyat Fakültesi, Fizik, 2017 - 2020

BAP Scientific Commissioner, Gazi University, Rektörlük, Gazi Üniversitesi, 2016 - 2020

Head of Department, Gazi University, Fen Fakültesi, Fizik, 2014 - 2017

Courses

83FBE5002 YÜKSEK LİSANS TEZ ÇALIŞMASI, Postgraduate, 2023 - 2024

83FBE6002 DOKTORA TEZ ÇALIŞMASI, Doctorate, 2023 - 2024

FİZ255 FİZİK LABORATUVARI (MATEMATİK BÖLÜMÜ), Undergraduate, 2023 - 2024

FİZ103 FİZİK I (TEKNOLOJİ FAKÜLTESİ), Undergraduate, 2023 - 2024

FİZ251 FİZİK LABORATUVARI II (ELEKTRİK), Undergraduate, 2023 - 2024

Advising Theses

Uğur G., Theoretical investigation of the structural, electronic, elastic, phonon and optical properties of X₂MgS₄ (X=Sc, Y, Cd) compounds in cubic structure, Postgraduate, E.TOK(Student), 2023

UĞUR G., Optical Design Of The Lens Group For Visible And Infrared Applications, Postgraduate, A.EREN(Student), 2020

UĞUR G., Theoretical Investigation Of The Structural, Electronic, Elastic, Vibrational And Thermodynamic Properties Of Some Ternary Compounds In Cubic Spinel Structure, Doctorate, A.CANDAN(Student), 2016

UĞUR G., Investigation of the ground state properties of TlBr and TlCl compounds using density functional theory, Postgraduate, Ö.KÖKER(Student), 2014

UĞUR G., Radyasyon tedavisinde kullanılan 6 MV foton enerjisiniin tümörlü dokuya uygulama süresini hesaplayan bilgisayar programının yazılması, Postgraduate, Y.ERGİN(Student), 2014

UĞUR G., The investigation of the electronic, elastic and vibrational properties of cubic Fe₂YSi (Y=Co, Cr, Mn and Ni) heusler compounds within the density functional theory, Postgraduate, F.EKİNCİ(Student), 2011

UĞUR G., The investigation of the structural, electronic, elastic and vibrational properties NaCl and CsCl structures zirconium carbit ve zirconium nitrit compounds with the density functional theory, Postgraduate, A.KARADUMAN(Student), 2011

UĞUR G., Investigation of Co₂MnX (X=Al, Ga, Ge, Si) heusler alloys, in cubic form, in terms of their structural, electronic, elastic and vibrational properties using density functional theory, Postgraduate, A.CANDAN(Student), 2011

UĞUR G., THE INVESTIGATION OF THE ELECTRONIC AND VIBRATIONAL PROPERTIES OF SOME COMPOUNDS WITHIN THE DENSITY FUNCTIONAL THEORY, Postgraduate, A.ERKİŞİ(Student), 2007

UĞUR G., Bazı kristallerin elastik ve titreşim özelliklerinin varşını potansiyel fonksiyonu ile incelenmesi, Postgraduate, M.DİNÇER(Student), 2007

UĞUR G., MgAuSn bileşiginin elektronik yapısının ve titreşim özelliklerinin yoğunluk fonksiyon teorisi ile incelenmesi, Doctorate, N.ARIKAN(Student), 2006

UĞUR G., Yoğunluk fonksiyon teorisi ile bazı bileşiklerin elektronik yapılarının ve titreşim özelliklerinin teorik olarak incelenmesi, Doctorate, F.SOYALP(Student), 2006

UĞUR G., Si(111)- (7x7) yüzeyinin değişik sıcaklıklarda STM ile incelenmesi, Postgraduate, C.ALAŞALVAR(Student), 2006

UĞUR G., Si üzerine büyütülmüş Au (111) yüzeyinin taramalı tünellemeli mikroskop ile incelenmesi, Postgraduate, U.NİYAZİ(Student), 2006

UĞUR G., AuAl₂ bileşiginin elektronik yapısının ve titreşim özelliklerinin yoğunluk fonksiyon teorisi ile incelenmesi, Postgraduate, H.ALTUNTAŞ(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. DFT analysis of the electronic, optical, phonon, elastic, and mechanical features of ternary Rb₂X₃S₃ (X = Si, Ge, Sn) chalcogenides

UĞUR Ş., GÜLER M., ÖZDEMİR A., GÜLER E., UĞUR G.

- Optical and Quantum Electronics, vol.56, no.7, 2024 (SCI-Expanded)
- II. Molecular dynamics exploration of the temperature-dependent elastic, mechanical, and anisotropic properties of hcp ruthenium**
 GÜLER E., UĞUR Ş., GÜLER M., UĞUR G.
 European Physical Journal Plus, vol.139, no.5, 2024 (SCI-Expanded)
- III. Structural and mechanical investigation of a TiAl₂ based alloy: A combined theoretical and experimental study**
 Mermer E., Çinici H., Uğur G., Ünal R.
 MATERIALS LETTERS, vol.354, 2024 (SCI-Expanded)
- IV. Structural, electronic, elastic and optical properties of double spinel MgAlGaO₄: a DFT investigation**
 Kushwaha A., GÜLER E., ÖZDEMİR A., GENÇ A. E., UĞUR G.
 Indian Journal of Physics, 2024 (SCI-Expanded)
- V. DFT predictions of the electronic, phonon, optical, and thermoelectric characteristics of CaCu₂S₂**
 GÜLER E., GÜLER M., ÖZDEMİR A., GENÇ A. E., UĞUR G., UĞUR Ş.
 MRS COMMUNICATIONS, vol.13, no.6, pp.1320-1325, 2023 (SCI-Expanded)
- VI. Unveiling the electronic, optical, and thermoelectrical properties of bulk and monolayer AlSiTe₃ by first principles**
 GÜLER E., UĞUR Ş., GÜLER M., UĞUR G.
 CHEMICAL PHYSICS, vol.575, 2023 (SCI-Expanded)
- VII. First principles investigations of the electronic, elastic, mechanical, anisotropic, optical, and thermoelectric performance of monoclinic SiGe semiconductors**
 GÜLER E., GÜLER M., UĞUR Ş., UĞUR G.
 INTERNATIONAL JOURNAL OF MODERN PHYSICS B, 2023 (SCI-Expanded)
- VIII. Development of an Al rich Ti-Al alloy with better ductility**
 Mermer E., Çinici H., Uğur G., Ünal R.
 VACUUM, vol.214, 2023 (SCI-Expanded)
- IX. Proposal of new stable Ru-based intermetallics, XRu₃ (X = V, Nb and Ta): Prediction of their bulk properties and their surfaces adsorption behavior and sensing properties to small gases**
 Saoudi A., Haddadi K., Medkour Y., Mosbah A., Reffas M., UĞUR G., Boukelkoul M., Bouriachi S.
 Vacuum, vol.213, 2023 (SCI-Expanded)
- X. Investigating the electronic, elastic, mechanical, anisotropic, and optical aspects of Sc₂RuZ (Z: Al, Ga, and In) full Heusler alloys from the first principles**
 GÜLER M., UĞUR Ş., GÜLER E., ÖZDEMİR A., Kushwaha A., GENÇ A. E., UĞUR G.
 PHYSICA B-CONDENSED MATTER, vol.659, 2023 (SCI-Expanded)
- XI. A theoretical benchmark for the electronic, optical, and thermoelectrical characteristics of bulk and monolayer BiS₂**
 GÜLER E., UĞUR Ş., GÜLER M., UĞUR G.
 MICRO AND NANOSTRUCTURES, vol.178, 2023 (SCI-Expanded)
- XII. Full potential theoretical investigations for electronic, optical, mechanical, elastic and anisotropic properties of X₂Se₂C (X = Ta, Nb) compounds**
 Baaziz H., Ghellab T., Charifi Z., GÜLER M., UĞUR Ş., GÜLER E., GENÇ A. E., UĞUR G.
 European Physical Journal B, vol.96, no.5, 2023 (SCI-Expanded)
- XIII. Properties of the double half-heusler alloy ScNbNi₂Sn₂ with respect to structural, electronic, optical, and thermoelectric aspects**
 Mekki H., Baaziz H., Charifi Z., Ghellab T., GENÇ A. E., UĞUR Ş., UĞUR G.
 Solid State Communications, vol.363, 2023 (SCI-Expanded)
- XIV. Experimental investigations of the structural, morphologic and mechanical properties of Ti-18 %Nb-1.4 %Ge alloy**
 Uğur G., Uğur Ş., Güler M., Güler E.
 MATERIALS LETTERS, vol.335, 2023 (SCI-Expanded)

- XV. Revealing the electronic, optical, elastic, mechanical, anisotropic, and thermoelectric responses of Sc(2)NiZ (Z = Si, Ge, and Sn) Heusler alloys via DFT calculations
 GÜLER M., UĞUR Ş., UĞUR G., GÜLER E.
 INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.123, 2023 (SCI-Expanded)
- XVI. DFT exploration of the electronic, optical, phonon and thermoelectrical performances of bulk and monolayered AuCN
 UĞUR G., Güler M., UĞUR Ş., GÜLER E.
 THEORETICAL CHEMISTRY ACCOUNTS, vol.142, no.2, 2023 (SCI-Expanded)
- XVII. Prediction of the electronic structure, optical and vibrational properties of ScXCo₂Sb₂ (X = V, Nb and Ta) double half-Heusler alloys: a theoretical study
 Charifi Z., Baaziz H., UĞUR Ş., UĞUR G.
 INDIAN JOURNAL OF PHYSICS, vol.97, no.2, pp.413-428, 2023 (SCI-Expanded)
- XVIII. An ab initio study on phase stability, elastic and mechanical properties of Zr-doped TiAl₂ and α -TiAl₃ intermetallics
 Mermer E., ÇİNİCİ H., UĞUR G., ÜNAL R.
 EPL, vol.140, no.3, 2022 (SCI-Expanded)
- XIX. Revealing the electronic, optical, phonon and thermoelectrical characteristics of bulk and monolayered RbLiS and RbLiSe compounds by DFT
 GÜLER E., UĞUR Ş., Güler M., ÖZDEMİR A., UĞUR G.
 JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.170, 2022 (SCI-Expanded)
- XX. Analyzing the electronic and optical properties of bulk, unstrained, and strained monolayers of SrS₂ by DFT
 Uğur Ş., Güler E., Güler M., Özdemir A., Uğur G.
 PHYSICA E: LOW-DIMENSIONAL SYSTEMS AND NANOSTRUCTURES, vol.143, pp.115403, 2022 (SCI-Expanded)
- XXI. <p>Dynamical and mechanical stability, electronic properties, bonding and weak interactions analysis of new compounds MgS₂ and MgSe₂ in Pa((3)over bar) space group structure: Ab initio study</p>
 Bouafia H., UĞUR G., GÜLER M., GÜLER E., UĞUR Ş.
 MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.146, 2022 (SCI-Expanded)
- XXII. The elastic, mechanical, and thermodynamic properties of NaXH₄ (X = B, Al) intended for the storage of hydrogen: An ab-initio study
 Ghellab T., Charifi Z., Baaziz H., Latteli H., Güler M., UĞUR Ş., GÜLER E., UĞUR G.
 Physica B: Condensed Matter, vol.638, 2022 (SCI-Expanded)
- XXIII. <p>Exploring the elastic, mechanical and anisotropic response of Ti-5Al-XSn alloys through DFT calculations</p>
 Guler E., UĞUR Ş., Guler M., UĞUR G.
 CHINESE JOURNAL OF PHYSICS, vol.77, pp.151-160, 2022 (SCI-Expanded)
- XXIV. Investigating the Magnetic, Mechanical, Electronic, Optical, and Anisotropic Properties of ZrCoFeX (X = Si, Ge) Quaternary Heusler Alloys via First Principles
 Baaziz H., Ghellab T., Guler E., Charifi Z., UĞUR Ş., Guler M., UĞUR G.
 JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.35, no.5, pp.1173-1182, 2022 (SCI-Expanded)
- XXV. First-principles calculations of electronic and optical properties of AgGa_{1-x}Tl_xS₂ alloys: Analyses and design for solar cell applications
 Mouacher R., Seddik T., Rezini B., Ul Haq B., Batouche M., Ugur G., UĞUR Ş., Belfedal A.
 JOURNAL OF SOLID STATE CHEMISTRY, vol.309, 2022 (SCI-Expanded)
- XXVI. Structural, elastic and mechanical properties of Hf-doped TiAl₂ and alpha-TiAl₃ intermetallic compounds: first-principle calculations
 Mermer E., ÇİNİCİ H., UĞUR G., ÜNAL R.
 EUROPEAN PHYSICAL JOURNAL B, vol.95, no.5, 2022 (SCI-Expanded)
- XXVII. Electronic, elastic, mechanical and anisotropic response of W₃XC₂ (X: Si, Ge and Al) alloys via first-

principles

- Güler E., Güler M., Uğur Ş., Özdemir A., Uğur G.
SOLID STATE COMMUNICATIONS, vol.343, 2022 (SCI-Expanded)
- XXVIII. **DFT aspects of the elastic, mechanical, magnetic, thermodynamic and optical properties of Ce₃XY perovskites**
Guler E., Guler M., UĞUR Ş., Ugur G.
PHILOSOPHICAL MAGAZINE, vol.102, no.3, pp.244-263, 2022 (SCI-Expanded)
- XXIX. **Probing the electronic, elastic, mechanical and anisotropic features of ZrTiX₄ alloys via density functional theory**
UĞUR G., Ugur S., Ozdemir A., GÜLER M., GÜLER E.
EPL, vol.137, no.4, 2022 (SCI-Expanded)
- XXX. **Chemical bonding, magnetic and electronic properties, mechanical and dynamical stabilities of DyOs₄P₁₂ filled-skutterudite: DFT and QTAIM insight**
Nekous M., Sahli B., Belarbi M., Bouafia H., Dorbane A., UĞUR Ş., UĞUR G.
MATERIALS CHEMISTRY AND PHYSICS, vol.278, 2022 (SCI-Expanded)
- XXXI. **First principles study of structural, elastic, mechanical and electronic properties of nitrogen-doped cubic diamond**
Guler E., UĞUR Ş., Guler M., Ugur G.
Bulletin of Materials Science, vol.44, no.1, 2021 (SCI-Expanded)
- XXXII. **A first-principles study for the elastic and mechanical properties of Ti64, Ti6242 and Ti6246 alloys**
Guler E., Guler M., Ugur G., UĞUR Ş.
EUROPEAN PHYSICAL JOURNAL B, vol.94, no.11, 2021 (SCI-Expanded)
- XXXIII. **First principles study of the electronic, optical, elastic and thermoelectric properties of Nb₂WNi alloy**
Guler M., UĞUR Ş., UĞUR G., Guler E.
MOLECULAR PHYSICS, vol.119, no.12, 2021 (SCI-Expanded)
- XXXIV. **First principles study of electronic, elastic, optical and magnetic properties of Rh₂MnX (X = Ti, Hf, Sc, Zr, Zn) Heusler alloys**
Guler E., Guler M., UĞUR Ş., UĞUR G.
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.121, no.10, 2021 (SCI-Expanded)
- XXXV. **Elastic, mechanical, optical and magnetic properties of Ru₂MnX (X = Nb, Ta, V) Heusler alloys**
UĞUR Ş., Guler M., UĞUR G., Guler E.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.523, 2021 (SCI-Expanded)
- XXXVI. **Electronic structure, optical and vibrational properties of Ti₂FeNiSb₂ and Ti₂Ni₂InSb double half heusler alloys**
Ugur G., Kushwaha A. K., Guler M., Charifi Z., UĞUR Ş., Guler E., Baaziz H.
Materials Science in Semiconductor Processing, vol.123, 2021 (SCI-Expanded)
- XXXVII. **Elastic, mechanical, anisotropic, optical and magnetic properties of V₂NiSb Heusler alloy**
Guler M., Guler E., UĞUR Ş., Ugur G., Charifi Z., Baaziz H.
Physica Scripta, vol.96, no.3, 2021 (SCI-Expanded)
- XXXVIII. **Structural, elastic and mechanical properties of Ti-15Nb-xGe alloys: insight from DFT calculations**
Guler E., UĞUR G., UĞUR Ş., Guler M., Khenata R.
BULLETIN OF MATERIALS SCIENCE, vol.44, no.1, 2021 (SCI-Expanded)
- XXXIX. **Elastic isotropy, magnetic and electronic properties, bonding and non-covalent interactions analyses of HoFe₄P₁₂ filled-skutterudite: DFT plus U plus SOC, QTAIM and NCI investigations**
Moussa H., Bouafia H., Sahli B., Dorbane A., UĞUR Ş., UĞUR G.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.518, 2021 (SCI-Expanded)
- XL. **Insight into the role of weak interactions on optoelectronic properties of LiGaTe 2-chalcopyrite under pressure effect: DFT-D3, NCI and QTAIM investigations**
Bendjemai M., Bouafia H., Sahli B., Dorbane A., Ugur Ş., Ugur G., Mokrane S.
PHYSICA B-CONDENSED MATTER, vol.599, 2020 (SCI-Expanded)

- XLI. **First principles investigations of structural, elastic, mechanical, electronic and optical properties of triple perovskite Ba₂K₂TeO₉**
 Kushwaha A. K., Ugur Ş., Guler M., Guler E., Ugur G.
PHYSICA B-CONDENSED MATTER, vol.596, 2020 (SCI-Expanded)
- XLII. **Ab Initio Full-Potential Study of the Structural, Electronic, and Magnetic Properties of the Cubic Sr_{0.75}Ti_{0.25}X(X= S, Se, and Te) Ternary Alloys**
 Hamidane N., Baaziz H., Ocak H. Y., Baddari K., Ugur Ş., Ugur G., Charifi Z.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.33, no.10, pp.3263-3272, 2020 (SCI-Expanded)
- XLIII. **Cation distribution effect on electronic, magnetic structure and optic properties in cobalt ferrites (Co_{1-y}Fey)(Tet)(CoyFe_{2-y})(Oct)O(4)with disordered spinel structure**
 Bouferrache K., Charifi Z., Baaziz H., Ugur G., Ugur Ş., Boyacioglu B., Unver H.
PHYSICA SCRIPTA, vol.95, no.10, 2020 (SCI-Expanded)
- XLIV. **A theoretical study for the band gap energies of the most common silica polymorphs**
 Guler E., Ugur G., Ugur Ş., Guler M.
CHINESE JOURNAL OF PHYSICS, vol.65, pp.472-480, 2020 (SCI-Expanded)
- XLV. **DFT-investigation on anisotropy degree of electronic, optical, and mechanical properties of olivine ZnRE₂S₄ (RE = Er, Tm) compounds**
 Batouche M., Seddik T., Uğur Ş., Uğur G., Messekine S., Vu T. V., Khyzhun O. Y.
MATERIALS RESEARCH EXPRESS, vol.7, no.1, 2020 (SCI-Expanded)
- XLVI. **Study of the ground-state magnetic ordering, magnetic and optoelectronic properties of (Lenaite) AgFeS₂ in its chalcopyrite structure**
 Djaafri T., Bouafia H., Sahli B., Djebour B., Ugur Ş., UĞUR G., Moussa H.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.493, 2020 (SCI-Expanded)
- XLVII. **First principles study of elastic and mechanical properties of TlBr and TlCl compounds**
 Guler M., Uğur Ş., Uğur G., Guler E.
JOURNAL OF MOLECULAR STRUCTURE, vol.1200, 2020 (SCI-Expanded)
- XLVIII. **Basis set convergence of binding energy with and without CP-correction utilizing PBE0 method: A benchmark study of X-2 (X = Ge, As, Se, Sc, Ti, V, Cr, Mn, Co, Cu, Zn)**
 Akbudak S., Uğur Ş., Ugur G., Ocak H. Y.
JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY, vol.18, no.8, 2019 (SCI-Expanded)
- XLIX. **Phase transitions and lattice dynamics in perovskite-type hydride Li_xNa_{1-x}MgH₃**
 Karfaf S., Bennecer B., Uğur Ş., Uğur G.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.31, no.50, 2019 (SCI-Expanded)
- L. **Pressure effect on mechanical stability and ground state optoelectronic properties of Li₂S₂ produced by Lithium-Sulfur batteries discharge: GGA-PBE, GLLB-SC and mBJ investigation**
 Bouafia H., Sahli B., Ugur Ş., Akbudak S., UĞUR G.
PHILOSOPHICAL MAGAZINE, vol.99, no.22, pp.2789-2817, 2019 (SCI-Expanded)
- LI. **Structural, elastic, electronic and vibrational properties of XAl₂O₄ (X = Ca, Sr and Cd) semiconductors with orthorhombic structure**
 Akbudak S., Candan A., Kushwaha A. K., Yadav A. C., UĞUR G., Ugur Ş.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.809, 2019 (SCI-Expanded)
- LII. **First principles investigations of the structural, elastic, electronic, vibrational and thermodynamic properties of hexagonal XAl₂O₄ (X = Cd, Ca and Sr)**
 Kushwaha A. K., Akbudak S., Candan A., Yadav A. C., UĞUR G., Ugur Ş.
MATERIALS RESEARCH EXPRESS, vol.6, no.8, 2019 (SCI-Expanded)
- LIII. **Structural, elastic, electronic and thermoelectric properties of XPN₂ (X = Li, Na): First-principles study**
 Ghellab T., Baaziz H., Charifi Z., Bouferrache K., Ugur Ş., UĞUR G., Unver H.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.33, no.21, 2019 (SCI-Expanded)
- LIV. **Lattice dynamical and elastic properties of BaFx (X = Cl, Br and I): Matlockite structure compounds**
 Kushwaha A. K., Akbudak S., Yadav A. C., Ugur Ş., UĞUR G.

- INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.33, no.20, 2019 (SCI-Expanded)
- LV. **First principles investigations of the structural, elastic, vibrational, and thermodynamic properties of TiMg₂O₄ oxide spinels: cubic and tetragonal phases**
 Kushwaha A. K., Akbudak S., UĞUR G., Ugur Ş.
 JOURNAL OF MOLECULAR MODELING, vol.25, no.8, 2019 (SCI-Expanded)
- LVI. **Insight into the structural, elastic, electronic, thermoelectric, thermodynamic and optical properties of MRhSb (M = Ti, Zr, Hf) half-Heuslers from ab initio calculations**
 Benzoudji F., Abid O. M., Seddik T., Yakoubi A., Khenata R., Meradji H., Ugur G., Ugur Ş., Ocak H. Y.
 CHINESE JOURNAL OF PHYSICS, vol.59, pp.434-448, 2019 (SCI-Expanded)
- LVII. **Structural, electronic, optical and elastic properties of XLa₂S₄ (X = Ba; Ca): Ab initio study**
 Batouche M., Seddik T., Vu T. V., Pham K. D., Tong H. D., Ugur Ş., Ugur G., Lavrentyev A. A., Khyzhun O. Y., Luong H. L., et al.
 PHYSICA B-CONDENSED MATTER, vol.558, pp.91-99, 2019 (SCI-Expanded)
- LVIII. **Thermodynamic Modeling of the Al-Ba and Ba-Ge Systems Supported by First-Principles Calculations**
 Benhafid R., Bouzida A. B., Djabballah Y., Candan A., Iyigor A., UĞUR G.
 JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION, vol.40, no.2, pp.195-205, 2019 (SCI-Expanded)
- LIX. **Electronic structure and magnetic properties of manganese-based MnAs_{1-x}P_x ternary alloys**
 Essaoud S. S., Charifi Z., Baaziz H., UĞUR G., Ugur Ş.
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.469, pp.329-341, 2019 (SCI-Expanded)
- LX. **Effect of Structure on the Electronic, Magnetic and Thermal Properties of Cubic Fe₂Mn_xNi_{1-x}Si Heusler Alloys**
 Noui S., Charifi Z., Baaziz H., UĞUR G., Ugur Ş.
 JOURNAL OF ELECTRONIC MATERIALS, vol.48, no.1, pp.337-351, 2019 (SCI-Expanded)
- LXI. **Theoretical research on structural, electronic, mechanical, lattice dynamical and thermodynamic properties of layered ternary nitrides Ti(2)AN (A = Si, Ge and Sn)**
 Candan A., Akbudak S., Ugur Ş., Ugur G.
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.771, pp.664-673, 2019 (SCI-Expanded)
- LXII. **External pressure effect on the electronic, optical and thermoelectric properties of the CdY(2)Ch(4) (Ch = S, Se) spinel compounds: Via modified Becke-Johnson (mBJ) exchange potential**
 Batouche M., Belfarh T., Mohammed D. E. S., Tabeti A., Seddik T., Ugur Ş., UĞUR G., Belfedal A.
 PHYSICA B-CONDENSED MATTER, vol.545, pp.40-47, 2018 (SCI-Expanded)
- LXIII. **Insight into the optoelectronic and thermoelectric properties of Ca-based Zintl phase CaCd₂X₂ (X = P, As) from first principles calculation**
 Belfarh T., Batouche M., Seddik T., UĞUR G., Bin Omran S., Bouhemadou A., Sandeep S., Wang X., Sun X., Khenata R.
 PHYSICA B-CONDENSED MATTER, vol.538, pp.35-46, 2018 (SCI-Expanded)
- LXIV. **The effect of martensitic phase transition from cubic to tetragonal on the physical properties of V₃Si superconductor**
 Tutuncu H. M., Uzunok H. Y., Srivastava G. P., ÖZDEMİR V., UĞUR G.
 INTERMETALLICS, vol.96, pp.25-32, 2018 (SCI-Expanded)
- LXV. **First-principle calculations of structural, electronic and magnetic investigations of Mn₂RuGe_{1-x}Sn_x quaternary Heusler alloys**
 Semari F., Dahmane F., Baki N., Al-Douri Y., Akbudak S., UĞUR G., Ugur Ş., Bouhemadou A., Khenata R., Voon C. H.
 CHINESE JOURNAL OF PHYSICS, vol.56, no.2, pp.567-573, 2018 (SCI-Expanded)
- LXVI. **Electronic band structure of rare-earth ferroelastics: theoretical investigations**
 ŞİMŞEK Ş., UĞUR G., UĞUR Ş., Mamedov A. M., ÖZBAY E.
 JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.20, pp.69-73, 2018 (SCI-Expanded)
- LXVII. **Electronic, mechanical, and optical properties of Ruddlesden-Popper perovskite sulfides: First principle calculation**
 KOÇ H., PALAZ S., UĞUR G., Mamedov A. M., ÖZBAY E.
 FERROELECTRICS, vol.535, no.1, pp.142-151, 2018 (SCI-Expanded)
- LXVIII. **Structural, electronic, elastic, optical and vibrational properties of MAI₂O₄ (M = Co and Mn)**

aluminate spinels

Akbudak S., Kushwaha A. K., UĞUR G., Ugur Ş., OCAK H. Y.

CERAMICS INTERNATIONAL, vol.44, no.1, pp.310-316, 2018 (SCI-Expanded)

- LXIX. **Investigation of the structural, electronic, elastic and thermodynamic properties of Curium Monopnictides: An ab initio study**

Baaaziz H., Guendouz D., Charifi Z., Akbudak S., UĞUR G., Ugur Ş., Boudiaf K.

INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.31, no.30, 2017 (SCI-Expanded)

- LXX. **Ab-Initio Calculations and Thermodynamic Description of the Yb-Cd and Yb-Sn Systems**

Kali-Ali F., Djaballah Y., Triaa S., Ugur Ş., Belgacem-Bouzida A., Drir M., UĞUR G.

JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION, vol.38, no.5, pp.665-675, 2017 (SCI-Expanded)

- LXXI. **Computational investigations on band structure and electronic features of chromium-based carbides and nitride Cr₃PX (X = C and N) through the FP-APW plus LO approach**

Seddik T., UĞUR G., Soyalp F., Khenata R., Prakash D., Kityk I. V., Khan S. A., Bouhemadou A., Bin-Omran S., Rai D. P., et al.

SUPERLATTICES AND MICROSTRUCTURES, vol.109, pp.1-12, 2017 (SCI-Expanded)

- LXXII. **Electronic structure, phase stability, vibrational and thermodynamic properties of the ternary Nowotny-Juza materials LiMgSb and LiZnSb**

Guendouz D., Charifi Z., Baaaziz H., Soyalp F., UĞUR G., Ugur Ş.

PHYSICA B-CONDENSED MATTER, vol.519, pp.39-52, 2017 (SCI-Expanded)

- LXXIII. **Investigation of structural, elastic, electronic, optical and vibrational properties of silver chromate spinels: Normal (CrAg₂O₄) and inverse (Ag₂CrO₄)**

Kushwaha A. K., Ugur Ş., Akbudak S., UĞUR G.

JOURNAL OF ALLOYS AND COMPOUNDS, vol.704, pp.101-108, 2017 (SCI-Expanded)

- LXXIV. **Investigation of electronic structure and thermodynamic properties of quaternary Li-containing chalcogenide diamond-like semiconductors**

Berarma K., Charifi Z., Soyalp F., Baaaziz H., UĞUR G., Ugur Ş.

SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.31, no.12, 2016 (SCI-Expanded)

- LXXV. **Optoelectronic and thermoelectric properties of Zintl YLi(3)A(2) (A = Sb, Bi) compounds through modified Becke-Johnson potential**

Seddik T., UĞUR G., Khenata R., Ugur Ş., Soyalp F., Murtaza G., Rai D. P., Bouhemadou A., Bin Omran S.

CHINESE PHYSICS B, vol.25, no.10, 2016 (SCI-Expanded)

- LXXVI. **Electronic structure, optical and thermodynamic properties of ternary hydrides MBeH₃ (M = Li, Na, and K)**

Guendouz D., Charifi Z., Baaaziz H., Ghellab T., Arikan N., Ugur Ş., UĞUR G.

CANADIAN JOURNAL OF PHYSICS, vol.94, no.9, pp.865-876, 2016 (SCI-Expanded)

- LXXVII. **A first-principle study of Os-based compounds: Electronic structure and vibrational properties**

Arikan N., Ornek O., Charifi Z., Baaaziz H., Ugur Ş., UĞUR G.

JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, pp.121-127, 2016 (SCI-Expanded)

- LXXVIII. **Elastic and mechanical properties of Mg₃Rh intermetallic compound: An ab initio study**

Boucetta S., UĞUR G.

JOURNAL OF MAGNESIUM AND ALLOYS, vol.4, no.2, pp.123-127, 2016 (SCI-Expanded)

- LXXIX. **First principles study of hydrogen storage material NaBH₄ and LiAlH₄ compounds: electronic structure and optical properties**

Ghellab T., Charifi Z., Baaaziz H., Ugur Ş., UĞUR G., Soyalp F.

PHYSICA SCRIPTA, vol.91, no.4, 2016 (SCI-Expanded)

- LXXX. **First-principles study of structural, electronic, elastic and phonon properties of AB(2)O(4) (A = Ge, Si; B = Mg, Zn, Cd) spinel oxides**

CANDAN A., UĞUR G.

MODERN PHYSICS LETTERS B, vol.30, no.3, 2016 (SCI-Expanded)

- LXXXI. **Structural, elastic, electronic, phonon and thermal properties of Ir₃Ta and Rh₃Ta alloys**

Arikan N., Ornek O., Ugur Ş., UĞUR G.

- PHILOSOPHICAL MAGAZINE LETTERS, vol.95, no.7, pp.392-400, 2015 (SCI-Expanded)
- LXXXII. **Thermodynamic description of the Bi-Cs and Bi-Tm system supported by first-principles calculations**
Djaballah Y., Amer A. S., Ugur Ş., UĞUR G., Hidoussi A., Belgacem-Bouzida A.
- CALPHAD-COMPUTER COUPLING OF PHASE DIAGRAMS AND THERMOCHEMISTRY, vol.48, pp.72-78, 2015 (SCI-Expanded)
- LXXXIII. **Electronic structure, phase stability, and vibrational properties of Ir-based intermetallic compound IrX (X=A1, Sc, and Ga)**
Arikan N., Charifi Z., Baaziz H., Ugur Ş., Unver H., UĞUR G.
- JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.77, pp.126-132, 2015 (SCI-Expanded)
- LXXXIV. **Ab-initio study of the structural, electronic, elastic and vibrational properties of the intermetallic Pd₃V and Pt₃V alloys in the L1(2) phase**
Arikan N., Iyigor A., Candan A., Ozdurhan M., Karakoc A., Ugur Ş., UĞUR G., Bouhemadou A., Bin-Omran S., Guechi N.
- METALS AND MATERIALS INTERNATIONAL, vol.20, no.4, pp.765-773, 2014 (SCI-Expanded)
- LXXXV. **Electronic and phonon properties of the full-Heusler alloys X₂YAl (X = Co, Fe and Y = Cr, Sc): a density functional theory study**
Arikan N., Iyigor A., Candan A., Ugur Ş., Charifi Z., Baaziz H., UĞUR G.
- JOURNAL OF MATERIALS SCIENCE, vol.49, no.12, pp.4180-4190, 2014 (SCI-Expanded)
- LXXXVI. **Phase transition of Nowotny-Juza NaZnX (X = P, As and Sb) compounds at high pressure: Theoretical investigation of structural, electronic and vibrational properties**
Charifi Z., Baaziz H., Noui S., Ugur Ş., UĞUR G., Iyigor A., Candan A., Al-Douri Y.
- COMPUTATIONAL MATERIALS SCIENCE, vol.87, pp.187-197, 2014 (SCI-Expanded)
- LXXXVII. **Preface of the "symposium on first-principles investigation of structural, electronic, elastic, thermodynamic and phonon properties of materials"**
UĞUR Ş., UĞUR G.
- AIP Conference Proceedings, vol.1618, pp.167-170, 2014 (SCI-Expanded)
- LXXXVIII. **AB INITIO STUDY OF PHONON DISPERSION AND ELASTIC PROPERTIES OF L1(2) INTERMETALLICS Ti₃Al AND Y₃Al**
Arikan N., Ersen M., Ocak H. Y., Iyigor A., Candan A., Ugur Ş., UĞUR G., Khenata R., Varshney D.
- MODERN PHYSICS LETTERS B, vol.27, no.30, 2013 (SCI-Expanded)
- LXXXIX. **Structural, elastic, electronic and phonon properties of scandium-based compounds ScX₃ (X = Ir, Pd, Pt and Rh): An ab initio study**
Arikan N., Iyigor A., Candan A., Ugur Ş., Charifi Z., Baaziz H., UĞUR G.
- COMPUTATIONAL MATERIALS SCIENCE, vol.79, pp.703-709, 2013 (SCI-Expanded)
- XC. **Electronic structure and vibrational properties in cobalt-based full-Heusler compounds: A first principle study of Co₂MnX (X = Si, Ge, Al, Ga)**
Candan A., UĞUR G., Charifi Z., Baaziz H., Ellialtioglu M. R.
- JOURNAL OF ALLOYS AND COMPOUNDS, vol.560, pp.215-222, 2013 (SCI-Expanded)
- XCI. **Elastic and thermodynamic properties of ZnSc₂S₄ and CdSc₂S₄ compounds under pressure and temperature effects**
Bouhemadou A., UĞUR G., Ugur Ş., Al-Essa S., Ghebouli M. A., Khenata R., Bin-Omran S., Al-Douri Y.
- COMPUTATIONAL MATERIALS SCIENCE, vol.70, pp.107-113, 2013 (SCI-Expanded)
- XCII. **A first-principles study of the structural, elastic, electronic and phonon properties of LiMgP and LiMgAs in the alpha, beta and gamma phases**
Soyalp F., UĞUR G., Ugur Ş., Sen H. C., Ellialtioglu M. R.
- JOURNAL OF ALLOYS AND COMPOUNDS, vol.551, pp.108-117, 2013 (SCI-Expanded)
- XCIII. **Structural, Elastic, Electronic and Optical Properties of Cu₃TMS₄ (TM = V, Nb and Ta) Sulfvanite Compounds via First-Principles Calculations**
Bougherara K., Litimein F., Khenata R., Ucgun E., Ocak H. Y., Ugur Ş., UĞUR G., Reshak A. H., Soyalp F., Bin Omran S.
- SCIENCE OF ADVANCED MATERIALS, vol.5, no.1, pp.97-106, 2013 (SCI-Expanded)
- XCIV. **Full-Potential Calculation of Structural, Electronic, and Thermodynamic Properties of Fluoroperovskite (M = Be and Mg)**

- Harmel M., Khachai H., Ameri A., Baki N., Haddou A., Khalfa M., Abbar B., Bin Omran S., UĞUR G., Ugur Ş., et al.
 INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.33, no.12, pp.2339-2350, 2012 (SCI-Expanded)
- XCV. **Ab initio study of some fundamental physical properties of the cubic inverse-perovskite Mn₃ZnC and Mn₃GeC**
 Bouhemadou A., Ghebouli M. A., UĞUR G., Ugur Ş., Ghebouli B., Khenata R., Bin-Omran S.
 COMPUTATIONAL MATERIALS SCIENCE, vol.58, pp.162-166, 2012 (SCI-Expanded)
- XCVI. **First-principles study of B2-like intermetallics LaMg and YMg**
 Ugur Ş., UĞUR G., Soyalp F., Ellialtioglu M. R.
 INTERMETALLICS, vol.22, pp.218-225, 2012 (SCI-Expanded)
- XCVII. **Theory study of structural parameters, elastic stiffness, electronic structures and lattice dynamics of RBRh₃ (R = Sc, Y, La and Lu)**
 Bouhemadou A., UĞUR G., Ugur Ş., Soyalp F., Khenata R., Bin-Omran S.
 COMPUTATIONAL MATERIALS SCIENCE, vol.54, pp.336-344, 2012 (SCI-Expanded)
- XCVIII. **Ground state and phonon spectrum of NiSi₂**
 Soyalp F., UĞUR G.
 PHILOSOPHICAL MAGAZINE, vol.91, no.3, pp.468-476, 2011 (SCI-Expanded)
- XCIX. **Structural, electronic and phonon properties of MoTa and MoNb: A density functional investigation**
 Bayhan U., Arikan N., Ugur Ş., UĞUR G., Civi M.
 Physica Scripta, vol.82, no.1, 2010 (SCI-Expanded)
- C. **Phonon and elastic properties of AlSc and MgSc from first-principles calculations**
 UĞUR Ş., ARIKAN N., Soyalp F., Ugur G.
 COMPUTATIONAL MATERIALS SCIENCE, vol.48, no.4, pp.866-870, 2010 (SCI-Expanded)
- CI. **Structural, electronic and elastic properties of YCu from first principles**
 UĞUR G., Civi M., Ugur Ş., Soyalp F., Ellialtioglu R.
 JOURNAL OF RARE EARTHS, vol.27, no.4, pp.661-663, 2009 (SCI-Expanded)
- CII. **Electronic structure calculations of rare-earth intermetallic compound YAg using ab initio methods**
 Ugur Ş., UĞUR G., Soyalp F., Ellialtioglu R.
 JOURNAL OF RARE EARTHS, vol.27, no.4, pp.664-666, 2009 (SCI-Expanded)
- CIII. **STRUCTURAL, ELECTRONIC AND PHONON PROPERTIES OF LaX COMPOUNDS (X = P, As)**
 Ugur G., UĞUR Ş., Erkisi A., Soyalp F.
 INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.22, no.28, pp.5027-5033, 2008 (SCI-Expanded)
- CIV. **First-principles investigation of structural, electronic and dynamical properties in ScAuSn alloy**
 Soyalp F., Ugur Ş., UĞUR G.
 COMPUTATIONAL MATERIALS SCIENCE, vol.41, no.2, pp.134-137, 2007 (SCI-Expanded)
- CV. **Ab initio study of structural, electronic and dynamical properties of MgAuSn**
 UĞUR G., Arikan N.
 EUROPEAN PHYSICAL JOURNAL B, vol.58, no.3, pp.319-322, 2007 (SCI-Expanded)
- CVI. **Electronic and phonon structures of AuGa₂ and AuIn₂**
 UĞUR G., Soyalp F.
 JOURNAL OF PHYSICS-CONDENSED MATTER, vol.18, no.29, pp.6777-6784, 2006 (SCI-Expanded)
- CVII. **Ab initio calculation of the structural and dynamical properties of the zinc-blende BN and its (110) surface**
 Bagci S., Duman S., Tutuncu H. M., Srivastava G. P., UĞUR G.
 DIAMOND AND RELATED MATERIALS, vol.15, pp.1161-1165, 2006 (SCI-Expanded)
- CVIII. **Theoretical study of the structural, electronic and dynamical properties of rocksalt ScN and GaN**
 Duman S., Bagci S., Tutuncu H. M., UĞUR G., Srivastava G. P.
 DIAMOND AND RELATED MATERIALS, vol.15, pp.1175-1178, 2006 (SCI-Expanded)
- CIX. **Ab initio calculation of the ground-state properties of COSi₂**
 UĞUR G., Soyalp F., Tutuncu H., Duman S., Srivastava G.
 JOURNAL OF PHYSICS-CONDENSED MATTER, vol.17, no.44, pp.7127-7132, 2005 (SCI-Expanded)
- CX. **Structural and dynamical properties of zinc-blende GaN, AlN, BN, and their (110) surfaces**

- Tutuncu H., Bagci S., Srivastava G., Albudak A., UĞUR G.
 PHYSICAL REVIEW B, vol.71, no.19, 2005 (SCI-Expanded)
- CXI. Vibrational properties of the Sb : InP(110) surface**
 Tutuncu H., Srivastava G., UĞUR G.
 SURFACE SCIENCE, vol.507, pp.1-6, 2002 (SCI-Expanded)
- CXII. Elastic properties of antiferromagnetic Fe-40%Mn alloy**
 Akgun I., UĞUR G.
 JOURNAL OF MATERIALS SCIENCE LETTERS, vol.19, no.2, pp.127-129, 2000 (SCI-Expanded)
- CXIII. The lattice dynamics of γ -iron**
 Çolakoğlu K., UĞUR G., ÇAKMAK M., Tütüncü H.
 Turkish Journal of Physics, vol.23, no.3, pp.479-484, 1999 (SCI-Expanded)
- CXIV. Phonon dispersion of Fe-30%Mn alloy**
 UĞUR G., Akgun I., Ugur \$.
 PHYSICA SCRIPTA, vol.60, no.6, pp.569-571, 1999 (SCI-Expanded)
- CXV. The lattice dynamics of Ni-24%Fe alloy based on an empirical many-body potential**
 Akgun I., UĞUR G.
 ACTA PHYSICA POLONICA A, vol.96, pp.391-398, 1999 (SCI-Expanded)
- CXVI. The lattice dynamics of some type-I and type-II alloys**
 Colakoglu K., Colak H., UĞUR G., Oztekin Y.
 NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA D-CONDENSED MATTER ATOMIC MOLECULAR AND CHEMICAL PHYSICS FLUIDS PLASMAS BIOPHYSICS, vol.20, no.12, pp.1863-1870, 1998 (SCI-Expanded)
- CXVII. The lattice dynamical study of a binary type-II alloy**
 Akgun I., UĞUR G.
 NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA D-CONDENSED MATTER ATOMIC MOLECULAR AND CHEMICAL PHYSICS FLUIDS PLASMAS BIOPHYSICS, vol.20, no.10, pp.1549-1556, 1998 (SCI-Expanded)
- CXVIII. Three-body effect on the lattice dynamics of Fe-28%Pd alloy**
 Akgun I., UĞUR G.
 NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA D-CONDENSED MATTER ATOMIC MOLECULAR AND CHEMICAL PHYSICS FLUIDS PLASMAS BIOPHYSICS, vol.19, no.6, pp.779-786, 1997 (SCI-Expanded)
- CXIX. Three-body effect on the lattice dynamics of some fcc d-band metals**
 Akgun I., UĞUR G., Gunen A., Civi M.
 NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA D-CONDENSED MATTER ATOMIC MOLECULAR AND CHEMICAL PHYSICS FLUIDS PLASMAS BIOPHYSICS, vol.19, no.6, pp.787-796, 1997 (SCI-Expanded)
- CXX. 3-BODY EFFECT ON THE LATTICE-DYNAMICS OF PD-10-PERCENT FE ALLOYS**
 AKGUN I., UĞUR G.
 PHYSICAL REVIEW B, vol.51, no.6, pp.3458-3461, 1995 (SCI-Expanded)

Articles Published in Other Journals

- I. Theoretical investigation of some fundamental physical properties of the ternary nitrides Ca(4)SiN(4) and Ca4GeN4 under pressure and temperature effect
 Boucenna S., Mosbah A., Haddadi K., Louail L., Bouhemadou A., UĞUR G.
 COMPUTATIONAL CONDENSED MATTER, vol.32, 2022 (ESCI)
- II. Investigation of Elastic Anisotropy Pressure Change in Al-Sc Alloys
 Ocak H. Y., Sarıoğlu G., Akbudak S., Uğur G., Uğur \$.
 El-Cezerî Journal of Science and Engineering, vol.6, pp.251-258, 2019 (Peer-Reviewed Journal)
- III. Analytical Investigation of Maximum Stresses According to the (hkl) Layers at Stable Condition for Al-Sc Alloys
 OCAK H. Y., ÜNAL R., SARIOĞLU G., UĞUR \$., UĞUR G.
 El-Cezerî Journal of Science and Engineering, vol.6, pp.200-207, 2019 (Peer-Reviewed Journal)

- IV. DENSITY FUNCTIONAL STUDY OF LuSe AND LuTe INTERMETALLIC COMPOUNDS
ARIKAN N., ÖRNEK O., UĞUR Ş., UĞUR G.
MACHINES, TECHNOLOGIES, MATERIALS INTERNATIONAL JOURNAL, vol.2, pp.3-4, 2016 (Peer-Reviewed Journal)
- V. First Principles Calculations and Thermodynamic Assessment of the Li Rh and Tl Tm Systems
DJEBALLAH Y., AMER A. S., UĞUR Ş., UĞUR G., BELGACEM BOUZIDA A.
International Journal of Materials, Mechanics and Manufacturing, vol.4, no.2, pp.135-139, 2016 (Peer-Reviewed Journal)
- VI. ELECTRONIC ELASTIC AND VIBRATIONAL PROPERTIES OF Cu₂TMAI TM Sc Ti Cr FROM FIRST PRINCIPLES CALCULATIONS
UĞUR G., İLHAN B.
MATERIALS SCIENCE NON-EQUILIBRIUM PHASE TRANSFORMATIONS, vol.3, pp.6, 2015 (Peer-Reviewed Journal)
- VII. STRUCTURAL ELECTRONIC ELASTIC PHONON AND THERMAL PROPERTIES OF L1₂ INTERMETALLIC COMPOUNDS BASED ON IRIDIUM Ir₃Hf
ARIKAN N., ÖRNEK O., UĞUR Ş., UĞUR G.
MATERIALS SCIENCE NON-EQUILIBRIUM PHASE TRANSFORMATIONS, vol.3, pp.8, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

- I. RADYASYON FİZİĞİNDE İSTATİSTİK
Uğur G., Uğur Ş., Tanır A. G., Koç K., Böülükdemir M. H., Arasoğlu A., Aslan N., Aydin A., Babacan T., Boztosun İ., et al. in: PHYSICS FOR RADIATION PROTECTION, Prof.Dr. A.Güneş TANIR, Doç.Dr. M. Hicabi BÖLÜKDEMİR, Yrd.Doç. Dr.Kemal KOÇ, Editor, Palme Yayın Dağıtım, Ankara, pp.79-146, 2013

Refereed Congress / Symposium Publications in Proceedings

- I. INVESTIGATION OF THE ELECTRONIC, ELASTIC, AND OPTICAL PROPERTIES OF Sc₂PbZ (Z=Si, Ge, Sn) HEUSLER COMPOUNDS: FIRST-PRINCIPLES CALCULATIONS
UĞUR G., ER S., GÜLER E.
6th International Conference on the World of Technology and Advanced Materials "WITAM'23", Batna, Algeria, 23 - 24 October 2023
- II. ELECTRONIC AND OPTICAL PROPERTIES OF 2D MATERIALS
UĞUR G., UĞUR Ş., GÜLER M., GÜLER E.
6th International Conference on the World of Technology and Advanced Materials "WITAM'23", Batna, Algeria, 23 - 24 October 2023
- III. EXPLORING THE PHYSICAL, OPTOELECTRONIC AND MECHANICAL FEATURES OF A₂BCI₆ (A=Cs, Rb; B=Si, Ge, Sn) PEROVSKITES
UĞUR G., GÜREL H., GÜLER E.
6th International Conference on the World of Technology and Advanced Materials "WITAM'23", Batna, Algeria, 23 - 24 October 2023
- IV. A COMBINED THEORETICAL AND EXPERIMENTAL STUDY FOR NOVEL TITANIUM BASED BIOMATERIALS
GÜLER E., GÜLER M., UĞUR Ş., UĞUR G.
6th International Conference on the World of Technology and Advanced Materials "WITAM'23", Batna, Algeria, 23 - 24 October 2023
- V. First principles study of structural, elastic and mechanical properties of Ti-(44-x)Al-5Zr-xNb alloys
Mermer E., ÇİNİCİ H., UĞUR G., ÜNAL R.
INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS SCIENCE & ENGINEERING AND HIGH TECH DEVICE APPLICATIONS, Ankara, Turkey, 27 - 29 October 2022, vol.1, pp.55-58
- VI. INVESTIGATION OF SOME PHYSICAL PROPERTIES OF Al₃Sc(Al-1,1Sc) PHASE DEPENDING ON

TEMPERATURE

OCAK H. Y., SARIOĞLU G., UĞUR G., UĞUR Ş.

AHI EVRAN 2nd INTERNATIONAL CONFERENCE ON SCIENTIFIC RESEARCH, Kırşehir, Turkey, 21 October 2022, vol.3, pp.228

VII. Awaiting Horizons of 2D Materials", ICWMMS2022

GÜLER E., UĞUR Ş., GÜLER M., UĞUR G., ALDIRMAZ E.

ICWMMS2022, Dera-Ismail-Khan, Pakistan, 24 - 26 October 2022

VIII. Theoretical research on structural, electronic, lattice dynamical and thermodynamic properties of XAl₂₀₄(x=Cd, Ca AND Sr) compounds: cubic, hexagonal and tetragonal phases

UĞUR G., UĞUR Ş.

The International workshop on the thermodynamics of metallic alloys the International Congress on the World of Technology and Advanced Materials (WITAM'xx2019), Batna, Algeria, 13 - 14 November 2019

IX. GULP: An efficient and quick tool for molecular modelling

GÜLER E., GÜLER M., ALDIRMAZ E., UĞUR Ş., UĞUR G.

The International workshop on the thermodynamics of metallic alloys the International Congress on the World of Technology and Advanced Materials (WITAM 2019), Batna, Algeria, 13 - 14 November 2019

X. Al-1,1Sc ALAŞIMININ BAZI TERMAL ÖZELLİKLERİNİN DENEYSEL YÖNTEMLE İNCELENMESİ

OCAK H. Y., SARIOĞLU G., BAŞAR R., ÜNAL R., UĞUR G., UĞUR Ş.

INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SYMPOSIUM-II, Samsun, Turkey, 20 - 22 July 2019, pp.237-243

XI. Al-6Mg-1,1Sc ALAŞIMININ BAZI TERMAL ÖZELLİKLERİNİN DENEYSEL YÖNTEMLE İNCELENMESİ

OCAK H. Y., SARIOĞLU G., BAŞAR R., ÜNAL R., UĞUR G., UĞUR Ş.

INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SYMPOSIUM-II, Samsun, Turkey, 20 - 22 July 2019, pp.244-250

XII. Investigation of Elastic Anisotropy Pressure Change in Al-Sc Alloys

OCAK H. Y., SARIOĞLU G., AKBUDAK S., UĞUR G., UĞUR Ş.

1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 - 24 March 2018, vol.6, pp.251-258

XIII. Analytical Investigation of Maximum Stresses According to the (hkl) Layers at Stable Condition for Al-Sc Alloys

OCAK H. Y., ÜNAL R., SARIOĞLU G., UĞUR Ş., UĞUR G.

1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 - 24 March 2018, vol.6, pp.200-207

XIV. First Principles Study of Structural, Elastic, Electronic, Optical, Lattice Dynamical and Thermodynamical Properties of CuCr₂Se₄ Spinel

AKBUDAK S., KUSHWAHA A. K., UĞUR G., UĞUR Ş.

INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS(WITAM-2018), Kırşehir, Turkey, 21 - 23 September 2018, pp.10-12

XV. Assesment of MP2, CCSD and CCSD(T) Methods In Defining The Total Energy of Zn and Zn₂

AKBUDAK S., UĞUR G.

INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS (WITAM-2018), Kırşehir, Turkey, 21 - 23 September 2018, pp.1-3

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UĞUR G., UĞUR Ş., BELGACEM BOUZIDA A., DJABALLAH Y.

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XVII. INVESTIGATION OF ELASTIC ANISOTROPY PRESSURE CHANGE IN Fe-Al ALLOYS

OCAK H. Y., AKBUDAK S., UĞUR Ş., UĞUR G., ÇETİN A.

3RD INTERNATIONAL WORKSHOP ON THE THERMODYNAMICS OF METALLIC ALLOYS (WITAM'xx2017), Batna, Algeria, 28 - 30 November 2017

XVIII. On the Structural, Electronic, and Elastic Properties of Ru₂FeAl: an ab initio Study of the L21 phase

- CANDAN A., ÖZDURAN M., UĞUR Ş., UĞUR G.
3rd International Turkic World Conference on Chemical Sciences and Technologies (ITWCCST 2017), Baku,
Azerbaijan, 10 - 13 September 2017
- XIX. **Structural, mechanical and electronic properties Ti₃Pt alloy in A15 type crystal structure**
İYİGÖR A., ARIKAN N., UĞUR G., UĞUR Ş.
3rd International Turkic World Conference on Chemical Sciences and Technologies (ITWCCST 2017), Baku,
Azerbaijan, 10 - 13 September 2017
- XX. **Elastic and optical properties of Ruddlesone-Popper perovskites-ab initio calculation**
PALAZ S., KOÇ H., UĞUR G., ÖZBAY E., Mamedov A.
The Fourteenth International Meeting on Ferroelectricity, San-Antonio, Northern Mariana Islands, 4 - 08
September 2017
- XXI. **Electronic band structure and optical properties of Gd₂(MoO₄)₃: First Principle calculations**
MAMEDOV A., ŞİMŞEK Ş., UĞUR G., UĞUR Ş., ÖZBAY E.
The Fourteenth International Meeting on Ferroelectricity, San-Antonio, Northern Mariana Islands, 4 - 08
September 2017
- XXII. **Investigations of the Core-Electron Binding Energies Using First-Principles calculations: A case study of C₂ and Sn₂**
AKBUDAK S., CANDAN A., UĞUR G., UĞUR Ş.
13th International Conference on Researches in Science and Technology (ICRST), Lisbon, Portugal, 25 - 26 May
2017
- XXIII. **Elastic, Thermodynamic, and Phonon properties of TcNb, TcTa, and TcV: First principles study**
AKBUDAK S., CANDAN A., SOYALP F., ÜNVER H., UĞUR G., UĞUR Ş.
13th International Conference on Researches in Science and Technology (ICRST), Lisbon, Portugal, 25 - 26 May
2017
- XXIV. **Structural, electronic and mechanical properties of a newly predicted layered ternary Ti₃SiN₂**
CANDAN A., AKBUDAK S., UĞUR Ş., UĞUR G.
3rd International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May
2017
- XXV. **Calculation of (hkl) Plane Energy of bcc and bct Iron using Analytical Method**
OCAK H. Y., UĞUR G., UĞUR Ş.
3RD INTERNATIONAL IRON STEEL SYMPOSIUM 2017(UDCS'xx17), Karabük, Turkey, 3 - 05 April 2017
- XXVI. **THEORETICAL CALCULATIONS OF MAXIMUM STRESS VALUES IN EQUILIBRIUM FOR BCC FE AND FCC AL WITH RESPECT TO DIFFERENT PLANES**
OCAK H. Y., ÇETİN A., AKBUDAK S., UĞUR G., UĞUR Ş., ÜNAL R.
The International Conference on Advances in Science and Arts (ICASA 2017), İstanbul, Turkey, 29 - 31 March 2017
- XXVII. **Theoretical Calculations of Maximum Stress Values in Equilibrium for bcc Fe and fcc Al with respect to Diffrenet Planes**
OCAK H. Y., ÇETİN A., AKBUDAK S., UĞUR G., UĞUR Ş., ÜNAL R.
International Conference on Advances in Science and Arts (ICASA), İstanbul, Turkey, 29 - 31 March 2017
- XXVIII. **INVESTIGATION OF AVERAGE CRYSTALLITE SIZE ON BCC FE - AL BY THE SCHERRER METHOD**
OCAK H. Y., ÇETİN A., AKBUDAK S., UĞUR G., UĞUR Ş.
The International Conference on Advances in Science and Arts (ICASA 2017), İstanbul, Turkey, 29 - 31 March 2017
- XXIX. **The Thermodynamic and VibrationalProperties of Al₂Sm**
UĞUR Ş., UĞUR G.
The International Conference on Advances in Science and Arts (ICASA 2017), İstanbul, Turkey, 29 - 31 March 2017
- XXX. **Convergence of the Correlated Calculations with Correlation Energy and Total Energy: A First Principles Study**
AKBUDAK S., UĞUR G., OCAK H. Y., UĞUR Ş.
The International Conference on Advances in Science and Arts (ICASA 2017), İstanbul, Turkey, 29 - 31 March 2017
- XXXI. **Assesment of Resolution of Identity (RI) Method in Describing Binding Energy of Homonuclear Diatomics A Case Study of Ar₂ and H₂**

- AKBUDAK S., UĞUR Ş., UĞUR G.
The International Conference on Advances in Science and Arts (ICASA 2017), İstanbul, Turkey, 29 - 31 March 2017
- XXXII. **Structural, Elastic, Electronic and Phonon Properties of Cmcm-MoAlB: An ab initio Study**
UĞUR G., OCAK H. Y., UĞUR Ş.
The International Conference on Advances in Science and Arts (ICASA 2017), İstanbul, Turkey, 29 - 31 March 2017
- XXXIII. **Theoretical Studies of Electronic, Elastic, and Phonon Properties of Kesterite Cu₂ZnSnS₄**
UĞUR G., OCAK H. Y., UĞUR Ş.
The International Conference on Advances in Science and Arts (ICASA 2017), İstanbul, Turkey, 29 - 31 March 2017
- XXXIV. **Band Structure and Optical Properties of Kesterite Type Compounds: first principle calculations**
Palaz S., Unver H., UĞUR G., Mamedov A. M., Ozbay E.
4th International Conference on Competitive Materials and Technology Processes (IC-CMTP), Miskolc, Hungary, 3 - 07 October 2016, vol.175
- XXXV. **Electronic Structure and Elastic Properties of MAX Phases Ti₂AN A Si Ge and Sn**
UĞUR Ş., CANDAN A., UĞUR G.
2nd INTERNATIONAL TURKIC WORLDCONFERANCE ON CHEMICAL SCIENCES AND TECHNOLOGIES, Skopje, Macedonia, 26 - 30 October 2016
- XXXVI. **Band Structure and Optical Properties of Kesterite Type Compounds first principal calculations**
MAMEDOV A. M., PALAZ S., ÜNVER H., UĞUR G., ÖZBAY E.
The 4th International Conference onCompetitive Materials and Technology Processes, Miskolc, Hungary, 3 - 06 October 2016
- XXXVII. **First principles study of the structural electronic elastic and optical properties of MAl₂O₄ M Co Mn**
KUSHWAHA A., UĞUR Ş., UĞUR G.
2nd INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, Kırşehir, Turkey, 28 September - 02 October 2016
- XXXVIII. **Ab initio investigation of the Au Sc binary system**
DJEBALLAH Y., BENMECHRI A., UĞUR Ş., UĞUR G., BELGACEM BOUZIDA A.
2nd INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, Kırşehir, Turkey, 28 September - 02 October 2016
- XXXIX. **Structural electronic elastic thermodynamic and phonon properties of Ru₂YGa Y Ti and Sc alloys in the L₂1 phase**
UĞUR G., CANDAN A., UĞUR Ş., İYİGÖR A., ÖZDURAN M., ÖRNEK O.
2nd INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, Kırşehir, Turkey, 28 September - 02 October 2016
- XL. **Structural electronic and elastic properties of Neptunium chalcogenides Np_X X Se Te an ab initio study of the B₂ phase**
UĞUR Ş., CANDAN A., UĞUR G.
2nd INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, Kırşehir, Turkey, 28 September - 02 October 2016
- XLI. **First Principle Calculation on Structural and Lattice Dynamical Properties of LiMgSb**
SOYALP F., UĞUR G.
32th International Physics Congress, Muğla, Turkey, 6 - 09 September 2016
- XLII. **Electronic Structure and Optical Properties of Ruddlesden Popper Perovskite Sulfides first principle calculation**
KOÇ H., PALAZ S., UĞUR G., MAMEDOV A. M., ÖZBAY E.
20th International Conference on Ternary and Multinary Compounds, Helle, Germany, 5 - 09 September 2016
- XLIII. **Theoretical Prediction of the Ground State Properties of Nowotny Juza LiMgN and LiZnN Compounds**
SOYALP F., UĞUR G.
1st International Physics Conference at the Anatolian Peak, Erzurum, Turkey, 25 - 27 February 2016
- XLIV. **FIRST PRINCIPLES STUDY OF STRUCTURAL ELASTIC AND THERMODYNAMIC PROPERTIES OF GeX₂₀₄ X Mg Zn Cd UNDER PRESSURE**
CANDAN A., UĞUR G., DJABALLAH Y., BELGACEM BOUZIDA A.

1. International workshop on thermodynamic of metallic alloys (WITAM2015), 17 - 18 November 2015
- XLV. **The First Principles Study on LuSe Compound in CsCl Structure**
ARIKAN N., ÖRNEK O., UĞUR Ş., UĞUR G.
1st International Turkic World Conference on Chemical Sciences and Technologies, Bosnia And Herzegovina, 27 October - 01 November 2015
- XLVI. **Electronic Elastic Thermodynamic and Phonon Properties of LaCd and LaCo Compounds in the B2 Phase**
ÖRNEK O., ARIKAN N., UĞUR Ş., UĞUR G.
1st International Turkic World Conference on Chemical Sciences and Technologies, Bosnia And Herzegovina, 27 October - 01 November 2015
- XLVII. **Electronic Structure Elastic and Phonon Properties of Rh₃La Compounds An ab initio Study**
ARIKAN N., ÖRNEK O., UĞUR Ş., UĞUR G.
1st International Turkic World Conference on Chemical Sciences and Technologies, Bosnia And Herzegovina, 27 October - 01 November 2015
- XLVIII. **DENSITY FUNCTIONAL STUDY OF LuSe AND LuTe INTERMETALLIC COMPOUNDS**
ARIKAN N., ÖRNEK O., UĞUR Ş., UĞUR G.
XII INTERNATIONAL CONGRESS MACHINES, TECHNOLOGIES, MATERIALS, Varna, Bulgaria, 16 - 19 September 2015, vol.22, pp.116-117
- XLIX. **ELECTRONIC ELASTIC AND VIBRATIONAL PROPERTIES OF Cu₂TMAI TM Sc Ti Cr FROM FIRST PRINCIPLES CALCULATIONS**
UĞUR G., İLHAN B.
XII INTERNATIONAL CONGRESS MACHINES, TECHNOLOGIES, MATERIALS, Varna, Bulgaria, 16 - 19 September 2015, vol.22, pp.112-113
- L. **STRUCTURAL ELECTRONIC ELASTIC PHONON AND THERMAL PROPERTIES OF L12 INTERMETALLIC COMPOUNDS BASED ON IRIDIUM Ir₃Hf**
ARIKAN N., ÖRNEK O., UĞUR Ş., UĞUR G.
XII INTERNATIONAL CONGRESS MACHINES, TECHNOLOGIES, MATERIALS (SCIENTIFIC PROCEEDINGS OF THE SCIENTIFIC-TECHNICAL UNION OF MECHANICAL ENGINEERING), Varna, Bulgaria, 16 - 19 September 2015, vol.22, pp.118-120
- LI. **ELECTRONIC ELASTIC PHONON AND THERMAL PROPERTIES OF L12 INTERMETALLIC COMPOUNDS BASED ON IRIDIUM Ir₃Hf**
ARIKAN N., ÖRNEK O., UĞUR Ş., UĞUR G.
XII INTERNATIONAL CONGRESS MACHINES, TECHNOLOGIES, MATERIALS, Varna, Bulgaria, 16 - 19 September 2015, vol.22, pp.118-120
- LII. **Electronic Band Structure of Rare Earth Ferroelastics Theoretical Investigations**
ŞİMŞEK Ş., UĞUR G., UĞUR Ş., MAMEDOV A. M., ÖZBAY E.
13th European Meeting on Ferroelectricity, 28 June - 03 July 2015
- LIII. **First Principles Calculations and Thermodynamic Assessment of the Li Rh and Tl Tm Systems**
Djaballah Y., Amer A. S., UĞUR Ş., UĞUR G., Balgacem Bouzida A.
2015 IACSIT KUALA LUMPUR CONFERENCES, Kuala-Lumpur, Malaysia, 11 - 12 June 2015
- LIV. **Zr₂AN A Ga Zn ve Tl Bileşiklerinin Yapısal Elektronik ve Elastik Özelliklerinin Kuramsal Olarak İncelenmesi**
CANDAN A., UĞUR G., ELLİALTIOĞLU M. R.
20.Yoğun madde Fiziği Ankara Toplantısı, Ankara, Turkey, 26 December 2014
- LV. **Kübik Spinel Yapıdaki SnX₂O₄ X Mg Zn Cd Bileşiklerinin Basınç Altında Termodinamik Özelliklerinin İncelenmesi**
CANDAN A., UĞUR G.
20.Yoğun madde Fiziği Ankara Toplantısı, Ankara, Turkey, 26 December 2014
- LVI. **Structural, Elastic, Electronic and Phonon Properties of SnX₂O₄ (X=Mg, Zn, Cd) Spinel from Density Functional Theory**
UĞUR G., CANDAN A.

- International Conference of Computational Methods in Sciences and Engineering 2014 (ICCMSE), Athens, Greece, 4 - 07 April 2014, vol.1618, pp.190-192
- LVII. First Principles Study of the Structural, Elastic, Electronic and Phonon Properties of CdX₂O₄ (X=Al, Ga, In) Spinel-Type Oxides**
CANDAN A., UĞUR G.
International Conference of Computational Methods in Sciences and Engineering 2014 (ICCMSE), Athens, Greece, 4 - 07 April 2014, vol.1618, pp.182-185
- LVIII. Tm_x X S Se Te Bileşiklerinin Yapısal Elektronik Elastik ve Titreşim Özelliklerinin İlk Prensipler Yaklaşımı ile İncelenmesi**
CANDAN A., UĞUR G., ELLİALTIOĞLU M. R.
19. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 20 December 2013
- LIX. Kübik L₂1 Yapısındaki Pd₂Ti_x X Al In Heusler Alaşımlarının Yapısal Elektronik ve Elastik Özelliklerinin İncelenmesi**
BAYHAN Ü., ÇIVİ M., UĞUR Ş., UĞUR G.
19. Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 20 December 2013
- LX. Theoretical study of structural electronic and dynamical properties of B₂ TlCl and TlBr**
UĞUR G., UĞUR Ş., KÖKER Ö.
30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013
- LXI. Dy Ga Disposiyum Galyum Bileşiklerinin Yapısal ve Elastik Özellikleri**
CANDAN A., İYİGÖR A., UĞUR Ş., UĞUR G., ARIKAN N., ÖZDURAN M.
30th International Physics Congress İstanbul, İstanbul, Turkey, 2 - 05 September 2013
- LXII. Pseudo potential calculations of structural elastic thermodynamic and phonon properties of spinel oxides GeX₂O₄ X Mg Zn Cd**
CANDAN A., UĞUR G.
30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013
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CANDAN A., UĞUR G., ARIKAN N.
30th International Physics Congress, 2 - 05 September 2013
- LXIV. Structural elastic thermodynamic and vibrational properties of spinel based on compound SiX₂O₄ X Mg Zn Cd Ab Initio Study**
CANDAN A., UĞUR G.
30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013
- LXV. Electronic and Phonon Properties of L₂1 Phase Heusler Alloy Co₂CrGa**
UĞUR G., UĞUR Ş., ELLİALTIOĞLU M. R.
29. International Physics Congress, Bodrum-Türkiye, Bodrum, 5 - 08 September 2012
- LXVI. Structural elastic electronic and phonon properties of the Intermetallic TaRu And NbRu**
UĞUR Ş., UĞUR G., ELLİALTIOĞLU M. R.
29. International Physics Congress, 5-8 September, 2012, Bodrum-Türkiye, Bodrum, Turkey, 5 - 08 September 2012
- LXVII. First principles investigation on the elastic magnetic electronic and phonon properties of NiFeMnGa and NiCoMnGa half metallic alloys**
UĞUR Ş., Khenata R., UĞUR G., SOYALP F., İYİGÖR A., Bouhemadou A.
International Conference on Materials Science and Applications Development and Innovation, Ta'if, Saudi Arabia, 13 - 15 February 2012
- LXVIII. Ab initio structural electronic elastic and phonon calculations for B₂ NiAl and NiGa**
SOYALP F., UĞUR G., UĞUR Ş., Khenata R., Bouhemadou A.
International Conference on Materials Science and Applications Development and Innovation, Ta'if, Saudi Arabia, 13 - 15 February 2012
- LXIX. Theoretical study of structural electronic elastic and vibrational properties of quaternary Heusler type CuCoMnG**

- UĞUR G., Bouhemadou A., UĞUR Ş., CANDAN A., SOYALP F., Khenata R.
International Conference on Materials Science and Applications Development and Innovation., Ta'if, Saudi Arabia,
13 - 15 February 2012
- LXX. **Tam Heusler Co₂TiSn Alaşımının Manyetik Elektronik Elastik ve Fonon Özelliklerinin İncelenmesi**
CANDAN A., İYİGÖR A., UĞUR G., UĞUR Ş., ELLİALTIOĞLU M. R.
18.Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 25 November 2011
- LXXI. **Yarı metalik Co₂CrAl Heusler Alaşımının Yapısal Manyetik Elastik Elektronik ve Fonon Özelliklerinin İncelenmesi**
UĞUR G., CANDAN A., İYİGÖR A., UĞUR Ş., ELLİALTIOĞLU M. R.
18.Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 25 November 2011
- LXXII. **C₁₅b Yapıdaki YMgNi₄ ve LaMgNi₄ Üçlü Bileşiklerinin Yapısal Elastik ve Elektronik Özelliklerinin İncelenmesi**
İYİGÖR A., CANDAN A., UĞUR Ş., UĞUR G., ELLİALTIOĞLU M. R.
18.Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 25 November 2011
- LXXIII. **Fe₂ScAl ve Co₂ScAl Heusler Alaşımının Kübik L₂1 Yapıdaki Elastik ve Fonon Özelliklerinin İncelenmesi**
İYİGÖR A., CANDAN A., UĞUR Ş., UĞUR G., ELLİALTIOĞLU M. R.
18.Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 25 November 2011
- LXXIV. **L₂1 Yapıdaki FeCrAl Alaşımının Yapısal Elektronik Elastik ve Fonon Özelliklerinin İncelenmesi**
CANDAN A., İYİGÖR A., UĞUR G., UĞUR Ş., ELLİALTIOĞLU M. R.
18.Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 25 November 2011
- LXXV. **Fe₃Si Heusler Alaşımının Yapısal Manyetik ve Elektronik Özellikleri**
UĞUR G., İYİGÖR A., UĞUR Ş., ELLİALTIOĞLU M. R.
17.Yoğun Madde Fiziği Ankara Toplantısı, Ankara, Turkey, 05 November 2010
- LXXVI. **Kübik CoAl Alaşımının Elastik ve Termodynamik Özelliklerinin Hesaplanması**
İYİGÖR A., UĞUR Ş., UĞUR G., ELLİALTIOĞLU M. R.
17.Yoğun Madde Fiziği Ankara Toplantısı Ankara Üniversitesi Ankara, Ankara, Turkey, 05 November 2010
- LXXVII. **Kübik Co₂MnX X Al Ga Si Ge Heusler Alaşımının Yapısal Manyetik Elektronik Elastik ve Fonon Özelliklerinin Hesaplanması**
CANDAN A., UĞUR Ş., UĞUR G., ELLİALTIOĞLU M. R.
17.Yoğun Madde Fiziği Ankara Toplantısı Ankara Üniversitesi Ankara, Ankara, Turkey, 05 November 2010
- LXXVIII. **Co₂ScAl Heusler Alaşımının L₂1 Yapıda Elektronik Özelliklerinin Hesaplanması**
İYİGÖR A., UĞUR Ş., UĞUR G., ELLİALTIOĞLU M. R.
17.Yoğun Madde Fiziği Ankara Toplantısı Ankara Üniversitesi Ankara, Ankara, Turkey, 05 November 2010
- LXXIX. **L₂1 Yapıdaki Ni₂FeIn heusler Bileşığının Titreşim Özelliklerinin Hesaplanması**
UĞUR Ş., UĞUR G., ELLİALTIOĞLU M. R.
17.Yoğun Madde Fiziği Ankara Toplantısı Ankara Üniversitesi Ankara, Ankara, Turkey, 05 November 2010
- LXXX. **MoTa ve MoNb İkili Bileşiklerinin CsCl Yapıda Yapısal Elektronik ve Fonon Özelliklerinin İncelenmesi**
ARIKAN N., UĞUR Ş., UĞUR G., ÇİVİ M.
16.Yoğun Madde Fiziği Ankara Toplantısı Gazi Üniversitesi Ankara, Ankara, Turkey, 06 November 2009
- LXXXI. **LiMgP ve LiMgAs Bileşiklerinin Yapısal Elektronik ve Dinamik Özelliklerinin İncelenmesi**
UĞUR G., UĞUR Ş., SOYALP F., ELLİALTIOĞLU M. R.
15. Yoğun madde Fiziği Ankara Toplantısı Bilkent Üniversitesi, Ankara, Ankara, Turkey, 07 November 2008
- LXXXII. **LaMg ve YMg Bileşiklerinin ab initio Yöntemle Elektronik Elastik ve Titreşim Özelliklerinin İncelenmesi**
UĞUR Ş., UĞUR G., ELLİALTIOĞLU M. R.
15. Yoğun madde Fiziği Ankara Toplantısı Bilkent Üniversitesi, Ankara, Ankara, Turkey, 07 November 2008
- LXXXIII. **YC_u ve YAg Bileşiklerinin Elektronik Elastik ve Titreşimsel Özellikleri**
UĞUR Ş., UĞUR G., SOYALP F., ÇİVİ M., ELLİALTIOĞLU M. R.
15. Yoğun madde Fiziği Ankara Toplantısı Bilkent Üniversitesi, Ankara, Ankara, Turkey, 07 November 2008
- LXXXIV. **Structural Electronic and Elastic Properties of YCu From First Principles**

- UĞUR G., ÇİVİ M., UĞUR Ş., SOYALP F., ELLİALTIOĞLU M. R.
 1. International Conference on Rare Earth Materials, Karpacz-POLAND, Karpacz, 21 - 26 September 2008
- LXXXV. **Electronic Structure Calculations of Rare Earth Intermetallic Compound YAg Using ab initio Methods**
 UĞUR Ş., UĞUR G., SOYALP F., ELLİALTIOĞLU M. R.
 1. International Conference on Rare Earth Materials, Karpacz-POLAND, Karpacz, 21 - 26 September 2008
- LXXXVI. **YP Bileşininin B1 ve B2 Fazda Elektronik Özelliklerinin Teorik Olarak İncelenmesi**
 UĞUR G., UĞUR Ş., SOYALP F.
 14. Yoğun madde Fiziği Ankara Toplantısı Hacettepe Üniversitesi, Ankara, Ankara, Turkey, 02 November 2007
- LXXXVII. **Yapıdaki YAs Bileşinin Titreşim Özelliklerinin Yoğunluk Fonksiyon Teorisile İncelenmesi**
 UĞUR Ş., UĞUR G., SOYALP F.
 14. Yoğun madde Fiziği Ankara Toplantısı Hacettepe Üniversitesi, Ankara, Ankara, Turkey, 02 November 2007
- LXXXVIII. **Electronic Structure of Lanthanum Pnictides**
 UĞUR G., ERKİŞİ A., UĞUR Ş., SOYALP F.
 24. International Physics Congress, Malatya-TÜRKİYE, Malatya, Turkey, 28 - 31 August 2007
- LXXXIX. **Ab-initio study of electronic structure of ScAuSn**
 Ugur Ş., UĞUR G., Soyalp F.
 6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.667
- XC. **Structural, electronic and dynamical properties of GeSi: An Ab-initio study**
 Soyalp F., Ugur Ş., UĞUR G.
 6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.655
- XCI. **First-principle calculations of electronic and dynamical properties of GeSn**
 UĞUR G., Soyalp F., Ugur Ş.
 6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.666
- XCII. **Ab initio study of structural electronic and dynamical properties of ScAuSn**
 SOYALP F., UĞUR Ş., UĞUR G.
 13. Yoğun madde Fiziği Ankara Toplantısı Orta Doğu Teknik Üniversitesi, Ankara, Turkey, 03 November 2006
- XCIII. **Electronic Properties of SrSe in NaCl B1 and CsCl B2 Structure**
 SOYALP F., UĞUR Ş., UĞUR G.
 The Seventh International Conference On Chemical Physics, Eğirdir, Isparta-Türkiye, Isparta, Turkey, 19 - 20 May 2006
- XCIV. **Çinko sülfür yapıdaki AlN nin fonon dispersiyonu**
 UĞUR Ş., SOYALP F., ARIKAN N., UĞUR G.
 12. Yoğun madde Fiziği Ankara Toplantısı Ankara Üniversitesi, Ankara, Turkey, 18 November 2005
- XCV. **ZnS nin yapısal ve elektronik özelliklerinin hesaplanması**
 ARIKAN N., SOYALP F., UĞUR Ş., UĞUR G.
 12. Yoğun madde Fiziği Ankara Toplantısı Ankara Üniversitesi, Ankara, Turkey, 18 November 2005
- XCVI. **CaF₂ yapıdaki AuIn₂ nin taban durum özellikleri**
 SOYALP F., ARIKAN N., UĞUR Ş., UĞUR G.
 12. Yoğun madde Fiziği Ankara Toplantısı Ankara Üniversitesi, Ankara, Turkey, 18 November 2005
- XCVII. **FeX X C N bileşiklerinin elektronik bant yapısı**
 SOYALP F., ARIKAN N., UĞUR Ş., UĞUR G.
 12. Yoğun madde Fiziği Ankara Toplantısı Ankara Üniversitesi, Ankara, Turkey, 18 November 2005
- XCVIII. **FeSi₂ bileşinin enerji bant yapısı**
 SOYALP F., UĞUR Ş., ARIKAN N., UĞUR G., TÜTÜNCÜ H. M.
 23. Uluslararası Fizik Kongresi Muğla Üniversitesi, Muğla, TÜRKİYE, Muğla, Turkey, 13 - 16 September 2005
- XCIX. **PtGa₂ bileşinin elektronik özelliklerin incelenmesi**
 SOYALP F., UĞUR Ş., ARIKAN N., UĞUR G., TÜTÜNCÜ H. M.
 23. Uluslararası Fizik Kongresi Muğla Üniversitesi, Muğla, TÜRKİYE, Muğla, Turkey, 13 - 16 September 2005
- C. **First-principles study of electronic and dynamical properties of AuAl₂**
 Tutuncu H., Altuntas H., Srivastava G., UĞUR G.
 11th International Conference on Phonon Scattering in Condensed Matter (PHONONS 2004), St Petersburg, Russia,

25 - 30 July 2004, vol.1, pp.3027-3028

CI. **Ni 45 Pd alaşımının fonon dispersiyonu**

ALTUNTAŞ H., UĞUR G., UĞUR Ş., Akgün İ.

YMF 9. Yoğun Madde Fiziği Ankara Seminerleri Bilkent Üniversitesi, Ankara, Turkey, 20 December 2002

CII. **Fe 31 5 Ni 10 Mn alaşımında Austenite Martensite faz dönüşümünün bazı manyetik özelliklerini**

OCAK H. Y., Akgün İ., Böcük H., Uçgun E., UĞUR G., UĞUR Ş.

TFD-21 Ulusal Fizik Kongresi Süleyman Demirel Üniversitesi, Isparta, Turkey, 20 November 2002

CIII. **Lattice dynamics of Fe 30 Mn alloy**

UĞUR G., Akgün İ., UĞUR Ş.

TFD-17 Ulusal Fizik Kongresi Alanya-TÜRKİYE, Alanya, Turkey, 17 November 1998

CIV. **Elastic properties of Fe based alloys**

Akgün İ., UĞUR G., UĞUR Ş.

BPU-3 General Conference of the Balkan Physical Union Cluj-Napoca, ROMANIA, Cluj-Napoca, Romania, 2 - 05 September 1997

Supported Projects

UĞUR G., GÜLER M., UĞUR Ş., GÜLER E., Project Supported by Higher Education Institutions, Ti-%15Nb-%XGe Alaşımının Bazı Fiziksel Özelliklerinin Belirlenmesi, 2021 - 2022

UĞUR Ş., UĞUR G., Project Supported by Higher Education Institutions, C1b Yapıdaki Zirkonyum Tabanlı Malzemelerin Mekanik ve Dinamik Özelliklerinin DFT ile İncelenmesi, 2018 - 2019

UĞUR G., UĞUR Ş., Project Supported by Higher Education Institutions, Alüminyum tabanlı bazı üçlü intermetalik bileşiklerinin DFT ile incelenmesi, 2017 - 2017

UĞUR G., Project Supported by Higher Education Institutions, Organik ve İnorganik Örnekleri Elementer Analizi İçin Kalibrasyonsuz Lazer Uyarımlı Plazma Spektroskopi Sisteminin (CF-LIBS) Kurulması, 2016 - 2017

UĞUR G., Project Supported by Higher Education Institutions, Bazı Nowatny-Juza bileşiklerinin yapışal, elektronik, elastik, fonon ve termodinamik özelliklerinin yoğunluk fonksiyonel teorisi ile araştırılması, 2013 - 2017

UĞUR Ş., UĞUR G., Project Supported by Higher Education Institutions, Bazı Heusler Malzemelerin Yapışal Elastik ve Termodinamik Özelliklerinin Yınlık Fonksiyonel Teorisile İncelenmesi, 2016 - 2016

UĞUR Ş., UĞUR G., Project Supported by Higher Education Institutions, Bazı Spinel Oksit Bileşiklerin Yapışal Elektronik ve Titreşim Özelliklerinin Ab initio Yöntemlerle İncelenmesi, 2016 - 2016

UĞUR Ş., UĞUR G., Project Supported by Higher Education Institutions, Ti Bazlı Üçlü Alaşımın Yapışal Elektronik ve Elastik Özelliklerinin Temel Prensipler Yöntemiyle İncelenmesi, 2014 - 2016

UĞUR Ş., UĞUR G., Project Supported by Higher Education Institutions, Bazı Kübik Kristallerin Yapışal Elektronik Elastik Özelliklerinin Teorik Olarak İncelenmesi, 2014 - 2015

UĞUR Ş., UĞUR G., Project Supported by Higher Education Institutions, L21 Yapıdaki Heusler Bileşiklerinin Yapışal Elektronik Optik ve Termodinamik Özelliklerinin Yoğunluk Fonksiyonel Teorisi ile İncelenmesi, 2013 - 2015

UĞUR G., Project Supported by Higher Education Institutions, Kübik Yapıdaki Bazı Spinel Bileşiklerin Yapışal, Elektronik, Elastik ve Titreşim Özelliklerinin İncelenmesi, 2012 - 2014

UĞUR G., Project Supported by Higher Education Institutions, Bazı Kübik Perovskite Bileşiklerinin Yapışal ve Elektronik Özelliklerinin Teorik Olarak İncelenmesi, 2012 - 2014

UĞUR G., Project Supported by Higher Education Institutions, CuInSe₂'nin yapışal, optik ve elektronik özelliklerinin incelenmesi, 2012 - 2013

UĞUR G., Project Supported by Higher Education Institutions, Bazı Yüz Merkezli Kristallerin Taban Durum Özelliklerinin İncelenmesi, 2007 - 2009

UĞUR G., Project Supported by Higher Education Institutions, Aliminyumun Krozyon Özelliklerine Isıl ve Yüzey İşlemlerinin Etkisi, 2005 - 2007

Tasks In Event Organizations

Uğur G., 2nd INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, Scientific Congress, Kırşehir, Turkey, Ekim 2016

Metrics

Publication: 232

Citation (WoS): 1019

Citation (Scopus): 1163

H-Index (WoS): 17

H-Index (Scopus): 18

Congress and Symposium Activities

6th International Conference on the World of Technology and Advanced Materials "WITAM'23", Invited Speaker, Batna, Algeria, 2023

Non Academic Experience

Milli Eğitim Bakanlığı