

Prof. GÖKAY UĞUR

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: B-6223-2016

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 (YI) (Tezli), Turkey 1990 - 1994

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

Dissertations

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

Postgraduate, Fe1-xPdx (X=0,28 0,90 0,96) alaşımlarında örgü dinamiği, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (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

BAP Scientific Commissioner, Gazi University, Fen Fakültesi, Fizik, 2013 - 2016

Gazi University, Fen Fakültesi, Fizik Bölümü, 2007 - 2008

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 X_2MgS_4 ($X=Sc, Y, Cd$) 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 enerjisinin 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 Fe_2YSi ($Y=Co, Cr, Mn$ 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 Co_2MnX ($X=Al, Ga, Ge, Si$) 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 varshni potansiyel fonksiyonu ile incelenmesi, Postgraduate, M.DİNÇER(Student), 2007

UĞUR G., $MgAuSn$ bileşiğinin 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., $Si(111)-(7 \times 7)$ 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., $AuAl_2$ bileşiğinin elektronik yapısının ve titreşim özelliklerinin yoğunluk fonksiyon teorisi ile incelenmesi, Postgraduate, H.ALTUNTAŞ(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Structural, electronic, elastic and optical properties of double spinel $MgAlGaO_4$: a DFT investigation**
Kushwaha A., GÜLER E., ÖZDEMİR A., GENÇ A. E., UĞUR G.
Indian Journal of Physics, 2024 (SCI-Expanded)

- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **Revealing the electronic, optical, elastic, mechanical, anisotropic, and thermoelectric responses of Sc₂NiZ (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)
- XIV. **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)

- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **<p>Dynamical and mechanical stability, electronic properties, bonding and weak interactions analysis of new compounds MgS₂ and MgSe₂ in Pa($\bar{3}$) 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)
- XX. **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)
- XXI. **<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)
- XXII. **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)
- XXIII. **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)
- XXIV. **Structural, elastic and mechanical properties of Hf-doped TiAl₂ and α -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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)

- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **Elastic, mechanical, optical and magnetic properties of Ru₂MnX (X = Nb, Ta, V) Heusler alloys**
UĞUR Ş., Güler M., UĞUR G., Güler E.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.523, 2021 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **First principles investigations of structural, elastic, mechanical, electronic and optical properties of triple perovskite Ba₂K₂Te₂O₉**
Kushwaha A. K., Ugur Ş., Guler M., Guler E., Ugur G.
PHYSICA B-CONDENSED MATTER, vol.596, 2020 (SCI-Expanded)
- XL. **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)

- XLI. Ab Initio Full-Potential Study of the Structural, Electronic, and Magnetic Properties of the Cubic $\text{Sr}_{0.75}\text{Ti}_{0.25}\text{X}$ (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)
- XLII. 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)
- XLIII. 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)
- XLIV. DFT-investigation on anisotropy degree of electronic, optical, and mechanical properties of olivine ZnRE_2S_4 (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)
- XLV. Study of the ground-state magnetic ordering, magnetic and optoelectronic properties of (Lenaite) AgFeS_2 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)
- XLVI. 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)**
Akbulak S., Uğur Ş., Uğur G., Ocak H. Y.
JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY, vol.18, no.8, 2019 (SCI-Expanded)
- XLVII. Phase transitions and lattice dynamics in perovskite-type hydride $\text{Li}_x\text{Na}_{1-x}\text{MgH}_3$**
Karfa S., Bennecer B., Uğur Ş., Uğur G.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.31, no.50, 2019 (SCI-Expanded)
- XLVIII. Structural, elastic, electronic and vibrational properties of XAl_2O_4 (X = Ca, Sr and Cd) semiconductors with orthorhombic structure**
Akbulak S., Candan A., Kushwaha A. K., Yadav A. C., Uğur G., Ugur Ş.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.809, 2019 (SCI-Expanded)
- XLIX. Pressure effect on mechanical stability and ground state optoelectronic properties of Li_2S_2 produced by Lithium-Sulfur batteries discharge: GGA-PBE, GLLB-SC and mBJ investigation**
Bouafia H., Sahli B., Ugur Ş., Akbulak S., Uğur G.
PHILOSOPHICAL MAGAZINE, vol.99, no.22, pp.2789-2817, 2019 (SCI-Expanded)
- L. Structural, elastic, electronic and thermoelectric properties of XPN_2 (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)
- LI. First principles investigations of the structural, elastic, electronic, vibrational and thermodynamic properties of hexagonal XAl_2O_4 (X = Cd, Ca and Sr)**
Kushwaha A. K., Akbulak S., Candan A., Yadav A. C., Uğur G., Ugur Ş.
MATERIALS RESEARCH EXPRESS, vol.6, no.8, 2019 (SCI-Expanded)
- LII. Lattice dynamical and elastic properties of BaFX (X = Cl, Br and I): Matlockite structure compounds**
Kushwaha A. K., Akbulak S., Yadav A. C., Ugur Ş., Uğur G.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.33, no.20, 2019 (SCI-Expanded)
- LIIL. First principles investigations of the structural, elastic, vibrational, and thermodynamic properties of TiMg_2O_4 oxide spinels: cubic and tetragonal phases**
Kushwaha A. K., Akbulak S., Uğur G., Ugur Ş.
JOURNAL OF MOLECULAR MODELING, vol.25, no.8, 2019 (SCI-Expanded)
- LIV. 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)

- LIV. **Structural, electronic, optical and elastic properties of XLa_2S_4 ($\text{X} = \text{Ba}; \text{Ca}$): 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)
- LVI. **Thermodynamic Modeling of the Al-Ba and Ba-Ge Systems Supported by First-Principles Calculations**
Benhafid R., Bouzida A. B., Djaballah Y., Candan A., Iyigor A., UĞUR G.
JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION, vol.40, no.2, pp.195-205, 2019 (SCI-Expanded)
- LVII. **Electronic structure and magnetic properties of manganese-based $\text{MnAs}_{1-x}\text{Px}$ 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)
- LVIII. **Theoretical research on structural, electronic, mechanical, lattice dynamical and thermodynamic properties of layered ternary nitrides Ti_2AN ($\text{A} = \text{Si}, \text{Ge}$ and Sn)**
Candan A., Akbudak S., Ugur Ş., Ugur G.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.771, pp.664-673, 2019 (SCI-Expanded)
- LIX. **Effect of Structure on the Electronic, Magnetic and Thermal Properties of Cubic $\text{Fe}_2\text{MnxNi}_{1-x}\text{Si}$ 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)
- LX. **External pressure effect on the electronic, optical and thermoelectric properties of the CdY_2Ch_4 ($\text{Ch} = \text{S}, \text{Se}$) 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)
- LXI. **Insight into the optoelectronic and thermoelectric properties of Ca-based Zintl phase CaCd_2X_2 ($\text{X} = \text{P}, \text{As}$) 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)
- LXII. **The effect of martensitic phase transition from cubic to tetragonal on the physical properties of V_3Si superconductor**
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Supported Projects

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

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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

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

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

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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: 230

Citation (WoS): 1019
Citation (Scopus): 1076
H-Index (WoS): 17
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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