

Prof. ŞULE UĞUR

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: B-6230-2016

ScopusID: 7004261573

Yoksis Researcher ID: 44428

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1996 - 2004

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

Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1983 - 1989

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, AIN (110) yüzeyinin atomik yapısının ve titreşim özelliklerinin yoğunluk fonksiyon teorisi ile incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2004

Postgraduate, Bazı anharmonik ve singüler ($r=0$) potansiyeller için schrödinger denkleminin çözüm metodları, Gazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 1994

Research Areas

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, 2017 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Fizik, 2010 - 2017

Assistant Professor, Gazi University, Fen Fakültesi, Fizik, 2007 - 2010

Lecturer PhD, Gazi University, Fen Fakültesi, Fizik, 2005 - 2007

Academic and Administrative Experience

Gazi University, Fen Fakültesi, Fizik Bölümü, 2020 - Continues

Performans Değerlendirme Komisyonu Üyesi, Gazi University, Fen Fakültesi, Fizik, 2022 - 2022

Adaptation/Exemption Committee Member, Gazi University, Fen Fakültesi, Fizik, 2021 - 2022

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Gazi University, Fen Fakültesi, Fizik, 2019 - 2022

Courses

FİZ2103 TİTREŞİM VE DALGALAR , Undergraduate, 2021 - 2022

FİZ3134 TERMODİNAMİK, Undergraduate, 2020 - 2021

FİZ1126 DALGALAR VE OPTİK, Undergraduate, 2020 - 2021

FİZ5881302 KRİSTAL ÖRGÜ DİNAMİĞİ, Doctorate, 2020 - 2021

FİZ5681302 İSTATİSTİK TERMODİNAMİK, Doctorate, 2020 - 2021

FİZ2123 AKIŞKANLAR MEKANİĞİ, Undergraduate, 2020 - 2021

5341302 RADYASYON FİZİĞİNDE İSTATİSTİKSEL METODLAR, Postgraduate, 2019 - 2020

YÜKSEK LİSANS UZMANLIK ALAN DERSİ, Postgraduate, 2017 - 2018

FİZİK 414 ARAŞTIRMA PROJESİ II, Undergraduate, 2017 - 2018

FİZ223 AKIŞKANLAR MEKANİĞİ, Undergraduate, 2017 - 2018, 2016 - 2017

YÜKSEK LİSANS TEZ HAZIRLIK, Postgraduate, 2017 - 2018, 2016 - 2017

FİZİK 413 ARAŞTIRMA PROJESİ I, Undergraduate, 2017 - 2018

FİZ5881302 KRİSTAL ÖRGÜ DİNAMİĞİ, Postgraduate, 2017 - 2018

5950002 DOKTORA UZMANLIK ALAN DERSİ, Doctorate, 2016 - 2017

KRİSTAL ÖRGÜ DİNAMİĞİ, Postgraduate, 2016 - 2017

FİZ102 FİZİK II, Undergraduate, 2016 - 2017

FİZ126 DALGALAR VE OPTİK, Undergraduate, 2015 - 2016

FİZ154 FİZİK LAB. (Mühendislik Fak.) , Undergraduate, 2009 - 2010

FİZ-101 GENEL FİZİK (Polatlı Fen-Edebiyat Fak.) , Undergraduate, 2010 - 2011

FİZ-101 GENEL FİZİK (Diş Hekimliği Fak.) , Undergraduate, 2009 - 2010

FİZ101 FİZİK-I, Undergraduate, 2005 - 2006

Advising Theses

Uğur Ş., XIn_2O_4 ($X=Mg, Zn, Cd$) bileşiklerinin yapısal, elektronik, elastik, fonon, termodinamik ve optik özelliklerinin teorik olarak incelenmesi, Postgraduate, S.YÜZLÜ(Student), 2021

UĞUR Ş., The Investigation Of The Structural, Electronic, Elastic And Dynamical Properties Of Os_2Ypb ($Y=Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn$) Triple Heusler Compounds In Cubic Structure Within The Density Functional Theory, Postgraduate, S.Nazlı(Student), 2016

UĞUR Ş., Dörtlü heusler alaşımlarının yapısal, elektronik, elastik, dinamik ve termodinamik özelliklerinin yoğunluk fonksiyonel teorisi ile incelenmesi, Doctorate, A.İYİĞÖR(Student), 2016

UĞUR Ş., The Investigation Of Structural, Electronic, Elastic And Dynamical Properties Of Cooper To Imply Triple Heusler Compounds In Cubic Structures Within The Density Functional Theory, Postgraduate, E.JULUSU(Student), 2016

UĞUR Ş., The investigation of the structural, electronic, elastic, dynamical and thermodynamical properties of quaternary Li_2XY ($X=Cu, Ag, Au; Y=Ge, Sn, Sb, Al, Ga, In$) compounds within the density functional theory, Postgraduate, A.KAFFASHNIA(Student), 2014

UĞUR Ş., Theoretical investigation of structural, electronic, elastic and vibrational properties of Pd_2XAl ($X=Co, Fe, Ni, Ti, Cu$) and Pt_2XAl ($X=Co, Fe, Ni, Ti, Cu$) heusler alloys in cubic structure, Postgraduate, A.EKİZ(Student), 2012

UĞUR Ş., The investigation of the structural, elektronik, elastic and vibrational properties of SrX ($X=Se, Te$) semiconductor compounds in cesium chloride structure within the density functional theory, Postgraduate, B.NAY(Student), 2011

UĞUR Ş., The investigation of structural, electronic, elastic and dynamical properties of some binary compounds in cubic

structures CoZ (Z=Al, Be, Sc, Zr) within the density functional theory, Postgraduate, A.İYİĞÖR(Student), 2011
UĞUR Ş., XRh (X=Mg, Sc, Y) bileşiklerinin yapısal, elektronik ve titreşimsel özelliklerinin yoğunluk fonksiyonel teorisi ile incelenmesi, Postgraduate, E.ASKER(Student), 2010

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Gazi Üniversitesi, December, 2022
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Gazi Üniversitesi, June, 2022
Doctorate, Doctorate, Gazi Üniversitesi, June, 2022
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Gazi Üniversitesi, February, 2022
Associate Professor Exam, Associate Professor Exam, Sivas Bilim Ve Teknoloji Üniversitesi, October, 2020
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, June, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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**
Bouafia H., UĞUR G., GÜLER M., GÜLER E., UĞUR Ş.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.146, 2022 (SCI-Expanded)
- VI. **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, 2022 (SCI-Expanded)
- VII. **Exploring the elastic, mechanical and anisotropic response of Ti-5Al-XSn alloys through DFT calculations**
Guler E., UĞUR Ş., Guler M., UĞUR G.
CHINESE JOURNAL OF PHYSICS, vol.77, pp.151-160, 2022 (SCI-Expanded)
- VIII. **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)

- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **A comparative study of structural, thermal, and optoelectronic properties between zircon and scheelite type structures in SrMoO4 compound: An ab-initio study**
Benzineb M., Chiker F., Khachai H., Meradji H., UĞUR Ş., Naqib S., Omran S. B., Wang X., Khenata R.
OPTIK, vol.238, 2021 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)

- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **Cation distribution effect on electronic, magnetic structure and optic properties in cobalt ferrites (Co_{1-y}Fe_y)(Tet)(Co_yFe_{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)
- XXVIII. **Pressure induced phase transition, electronic and optical properties of LiBeX (X = As, Sb and Bi)**
Guechi N., Bennecer B., Hamidani A., Uğur Ş.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.32, no.32, 2020 (SCI-Expanded)
- XXIX. **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)
- XXX. **Study of structural, elastic, electronic, and vibrational properties of MRh₂O₄ (M = Cd and Zn) spinels: DFT-based calculations**
Uğur Ş., Akbudak S., Kushwaha A. K., Bayrak G.
JOURNAL OF MOLECULAR MODELING, vol.26, no.6, 2020 (SCI-Expanded)
- XXXI. **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)
- XXXII. **An ab-initio investigation of the electronic structure, chemical bonding and optical properties of Ba₂HgS₅ semiconductor**
Azam S., Khan S. A., Khenata R., Naqib Ş., Abdiche A., Uğur Ş., Bouhemadou A., Wang X.
MOLECULAR PHYSICS, vol.118, no.1, 2020 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **Phase transitions and lattice dynamics in perovskite-type hydride Li_xNa_{1-x}MgH₃**
Karfař S., Bennecer B., Uğur Ş., Uğur G.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.31, no.50, 2019 (SCI-Expanded)

- XXXVI. **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., Uğur G., Ocak H. Y.
JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY, vol.18, no.8, 2019 (SCI-Expanded)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **Effect of Structure on the Electronic, Magnetic and Thermal Properties of Cubic Fe₂MnxNi_{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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)

- L. **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)
- LI. **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)
- LII. **Investigation of the structural, electronic, elastic and thermodynamic properties of Curium Monopnictides: An ab initio study**
Baaziz 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)
- LIII. **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)
- LIV. **Electronic structure, phase stability, vibrational and thermodynamic properties of the ternary Nowotny-Juza materials LiMgSb and LiZnSb**
Guendouz D., Charifi Z., Baaziz H., Soyalp F., UĞUR G., Ugur Ş.
PHYSICA B-CONDENSED MATTER, vol.519, pp.39-52, 2017 (SCI-Expanded)
- LV. **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)
- LVI. **Investigation of electronic structure and thermodynamic properties of quaternary Li-containing chalcogenide diamond-like semiconductors**
Berarma K., Charifi Z., Soyalp F., Baaziz H., UĞUR G., Ugur Ş.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.31, no.12, 2016 (SCI-Expanded)
- LVII. **Optoelectronic and thermoelectric properties of Zintl YLi₃A₂ (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)
- LVIII. **A first-principle study of Os-based compounds: Electronic structure and vibrational properties**
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