

# Prof. ŞULE UĞUR

## Personal Information

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## International Researcher IDs

ScholarID: LfywhcgAAAAJ

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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

Birim Kalite Komisyonu Başkanı, Gazi University, Fen Fakültesi, Fizik, 2023 - Continues  
Gazi University, Fen Fakültesi, Fizik Bölümü, 2020 - Continues  
Performans Değerlendirme Komisyonu Üyesi, Gazi University, Fen Fakültesi, Fizik, 2022 - 2023  
Birim Stratejik Plan Komisyonu Üyesi, Gazi University, Fen Fakültesi, Fizik, 2021 - 2023  
BİRİM AR-GE ve Altyapı Komisyonu Üyesi, Gazi University, Fen Fakültesi, Fizik, 2021 - 2023  
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

83FBE5002YÜKSEK LİSANS TEZ ÇALIŞMASI, Postgraduate, 2023 - 2024  
83FBE5001YÜKSEK LİSANS TEZ HAZIRLIK , Postgraduate, 2023 - 2024  
FİZ255FİZİK LABORATUVARI (MATEMATİK BÖLÜMÜ), Undergraduate, 2023 - 2024  
FİZ251FİZİK LABORATUVAR II (ELEKTRİK), Undergraduate, 2023 - 2024  
TERMODİNAMİK, Undergraduate, 2023 - 2024  
AKIŞKANLAR MEKANİĞİ, Undergraduate, 2023 - 2024  
FİZ5048 KRİSTAL ÖRGÜ DİNAMİĞİ, Doctorate, 2022 - 2023  
FİZ2103 TİTREŞİM VE DALGALAR, Undergraduate, 2022 - 2023  
5076 İSTATİSTİK TERMODİNAMİK, Doctorate, 2022 - 2023  
FİZ3134 TERMODİNAMİK, Undergraduate, 2020 - 2021  
FİZ1126 DALGALAR VE OPTİK, Undergraduate, 2020 - 2021  
FİZ5881302 KRİSTAL ÖRGÜ DİNAMİĞİ, Doctorate, 2020 - 2021  
FİZ2123 TİTREŞİM VE DALGALAR, Undergraduate, 2021 - 2022  
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., The investigation of the structural, electronic, elastic, phonon, thermodynamic and optical properties of  $XIn_2S_4$  ( $X = Mg, Zn, Cd$ ) spinel compounds within the density functional theory, Postgraduate, Z.KIZILIRMAK(Student), 2023  
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., Kübik yapıdaki  $Os_2YPb$  ( $Y=Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn$ ) heusler bileşiklerinin yapısal, elektronik, elastik ve titreşim özelliklerinin yoğunluk fonksiyonel teorisi ile incelenmesi, Postgraduate, S.NAZLI(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.ULUSU(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

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Gazi Üniversitesi, February, 2020

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **DFT analysis of the electronic, optical, phonon, elastic, and mechanical features of ternary  $Rb_2XS_3$  ( $X = Si, Ge, Sn$ ) 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. **DFT predictions of the electronic, phonon, optical, and thermoelectric characteristics of  $CaCu_2S_2$**   
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  $AlSiTe_3$  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. **Investigating the electronic, elastic, mechanical, anisotropic, and optical aspects of Sc<sub>2</sub>RuZ (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)
- VII. **A theoretical benchmark for the electronic, optical, and thermoelectrical characteristics of bulk and monolayer BiS<sub>2</sub>**  
GÜLER E., UĞUR Ş., GÜLER M., UĞUR G.  
MICRO AND NANOSTRUCTURES, vol.178, 2023 (SCI-Expanded)
- VIII. **Full potential theoretical investigations for electronic, optical, mechanical, elastic and anisotropic properties of X<sub>2</sub>Se<sub>2</sub>C (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)
- IX. **Study of Structural, optoelectronic and elastic properties of MAX phase of Ti<sub>2</sub>BrX (X = B, C and N) by density functional theory**  
Kushwaha A., Genç A., Özdemir A., Güler M., Uğur Ş.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.150, 2023 (SCI-Expanded)
- X. **Properties of the double half-Heusler alloy ScNbNi<sub>2</sub>Sn<sub>2</sub> 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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **Prediction of the electronic structure, optical and vibrational properties of ScXCo<sub>2</sub>Sb<sub>2</sub> (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. **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)
- XVI. **Analyzing the electronic and optical properties of bulk, unstrained, and strained monolayers of SrS<sub>2</sub> 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)
- XVII. **Dynamical and mechanical stability, electronic properties, bonding and weak interactions analysis of new compounds MgS<sub>2</sub> and MgSe<sub>2</sub> 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)

- XVIII. **The elastic, mechanical, and thermodynamic properties of NaXH<sub>4</sub> (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)
- XIX. **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)
- XX. **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)
- XXI. **First-principles calculations of electronic and optical properties of AgGa<sub>1-x</sub>Tl<sub>x</sub>S<sub>2</sub> 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)
- XXII. **Chemical bonding, magnetic and electronic properties, mechanical and dynamical stabilities of DyOs<sub>4</sub>P<sub>12</sub> 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)
- XXIII. **Electronic, elastic, mechanical and anisotropic response of W<sub>3</sub>XC<sub>2</sub> (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)
- XXIV. **Probing the electronic, elastic, mechanical and anisotropic features of ZrTiX<sub>4</sub> alloys via density functional theory**  
UĞUR G., Ugur S., Ozdemir A., GÜLER M., GÜLER E.  
EPL, vol.137, no.4, 2022 (SCI-Expanded)
- XXV. **DFT aspects of the elastic, mechanical, magnetic, thermodynamic and optical properties of Ce<sub>3</sub>XY perovskites**  
Guler E., Guler M., UĞUR Ş., Ugur G.  
PHILOSOPHICAL MAGAZINE, vol.102, no.3, pp.244-263, 2022 (SCI-Expanded)
- XXVI. **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)
- XXVII. **A first-principles study for the elastic and mechanical properties of Ti<sub>6</sub>4, Ti<sub>6</sub>242 and Ti<sub>6</sub>246 alloys**  
Guler E., Guler M., Ugur G., UĞUR Ş.  
EUROPEAN PHYSICAL JOURNAL B, vol.94, no.11, 2021 (SCI-Expanded)
- XXVIII. **A comparative study of structural, thermal, and optoelectronic properties between zircon and scheelite type structures in SrMoO<sub>4</sub> 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)
- XXIX. **First principles study of the electronic, optical, elastic and thermoelectric properties of Nb<sub>2</sub>W<sub>2</sub>Ni alloy**  
Guler M., UĞUR Ş., UĞUR G., Guler E.  
MOLECULAR PHYSICS, vol.119, no.12, 2021 (SCI-Expanded)
- XXX. **First principles study of electronic, elastic, optical and magnetic properties of Rh<sub>2</sub>MnX (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)

- XXXI. **Elastic, mechanical, optical and magnetic properties of Ru<sub>2</sub>MnX (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)
- XXXII. **Electronic structure, optical and vibrational properties of Ti<sub>2</sub>FeNiSb<sub>2</sub> and Ti<sub>2</sub>Ni<sub>2</sub>InSb 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)
- XXXIII. **Elastic, mechanical, anisotropic, optical and magnetic properties of V<sub>2</sub>NiSb Heusler alloy**  
Guler M., Guler E., UĞUR Ş., Ugur G., Charifi Z., Baaziz H.  
Physica Scripta, vol.96, no.3, 2021 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **Elastic isotropy, magnetic and electronic properties, bonding and non-covalent interactions analyses of HoFe<sub>4</sub>P<sub>12</sub> 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)
- XXXVI. **Insight into the role of weak interactions on optoelectronic properties of LiGaTe<sub>2</sub>-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)
- XXXVII. **First principles investigations of structural, elastic, mechanical, electronic and optical properties of triple perovskite Ba<sub>2</sub>K<sub>2</sub>Te<sub>2</sub>O<sub>9</sub>**  
Kushwaha A. K., Ugur Ş., Guler M., Guler E., Ugur G.  
PHYSICA B-CONDENSED MATTER, vol.596, 2020 (SCI-Expanded)
- XXXVIII. **Cation distribution effect on electronic, magnetic structure and optic properties in cobalt ferrites (Co<sub>1-y</sub>Fey)(Tet)(CoyFe<sub>2-y</sub>)(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)
- XXXIX. **Ab Initio Full-Potential Study of the Structural, Electronic, and Magnetic Properties of the Cubic Sr<sub>0.75</sub>Ti<sub>0.25</sub>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)
- XL. **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)
- XLI. **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)
- XLII. **Study of structural, elastic, electronic, and vibrational properties of MRh<sub>2</sub>O<sub>4</sub> (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)
- XLIII. **DFT-investigation on anisotropy degree of electronic, optical, and mechanical properties of olivine ZnRE<sub>2</sub>S<sub>4</sub> (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)
- XLIV. **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)
- XLV. **Study of the ground-state magnetic ordering, magnetic and optoelectronic properties of (Lenaite) AgFeS<sub>2</sub> in its chalcopyrite structure**  
 Djaafri T., Bouafia H., Sahli B., Djebour B., Uğur Ş., UĞUR G., Moussa H.  
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.493, 2020 (SCI-Expanded)
- XLVI. **An ab-initio investigation of the electronic structure, chemical bonding and optical properties of Ba<sub>2</sub>HgS<sub>5</sub> 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)
- XLVII. **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)
- XLVIII. **Phase transitions and lattice dynamics in perovskite-type hydride Li<sub>x</sub>Na<sub>1-x</sub>MgH<sub>3</sub>**  
 Karfaf S., Bennecer B., Uğur Ş., Uğur G.  
 JOURNAL OF PHYSICS-CONDENSED MATTER, vol.31, no.50, 2019 (SCI-Expanded)
- XLIX. **Structural, elastic, electronic and vibrational properties of XAl<sub>2</sub>O<sub>4</sub> (X = Ca, Sr and Cd) semiconductors with orthorhombic structure**  
 Akbudak S., Candan A., Kushwaha A. K., Yadav A. C., UĞUR G., Uğur Ş.  
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.809, 2019 (SCI-Expanded)
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- III. **INVESTIGATING THE PHYSICAL PROPERTIES OF RbXF<sub>3</sub> (X = Rh, Os, Ir, V) COMPOUNDS**  
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- LXXXVIII. **ab initio Study of Structural Elastic and Electronic Properties of ScSe And ScTe Compounds**  
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- XCIII. **B2 RhX X Y,Mg,Sc Bileşiklerinin CsCl Yapıda Yapısal Elektronik ve Titreşim Özelliklerinin İncelenmesi**  
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- XCIV. **MoTa ve MoNb İkili Bileşiklerinin CsCl Yapıda Yapısal Elektronik ve Fonon Özelliklerinin İncelenmesi**  
ARIKAN N., UĞUR Ş., UĞUR G., ÇİVİ M.  
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- UĞUR Ş., Project Supported by Higher Education Institutions, Rh<sub>2</sub>TiAl Bileşiğinin Dinamik Özelliklerinin DFT ile İncelenmesi, 2018 - 2019
- 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 Ş., Project Supported by Higher Education Institutions, A15 (Cr<sub>3</sub>Si) Tipi Yapıdaki Malzemelerin Taban Durum Özelliklerinin Ab-initio Yöntem ile İncelenmesi, 2017 - 2017
- UĞUR G., UĞUR Ş., Project Supported by Higher Education Institutions, Alüminyum tabanlı bazı üçlü intermetalik bileşiklerinin DFT ile incelenmesi, 2017 - 2017
- UĞUR Ş., TUBITAK Project, ThCr<sub>2</sub>Si<sub>2</sub> ve LuNi<sub>2</sub>B<sub>2</sub>C Tipi Süperiletkenlerin Yoğunluk Fonksiyonel Teorisi Kullanılarak İncelenmesi 114F192 ARDEB 1001, 2013 - 2017
- UĞUR Ş., UĞUR G., Project Supported by Higher Education Institutions, Bazı Heusler Malzemelerin Yapısal Elastik ve Termodinamik Özelliklerinin Yoğunluk Fonksiyonel Teorisi ile İncelenmesi, 2016 - 2016
- UĞUR Ş., UĞUR G., Project Supported by Higher Education Institutions, Bazı Spinel Oksit Bileşiklerinin Yapısal Elektronik ve Titreşim Özelliklerinin Ab initio Yöntemlerle İncelenmesi, 2016 - 2016
- UĞUR Ş., UĞUR G., Project Supported by Higher Education Institutions, Ti Bazlı Üçlü Alaşımların Yapısal Elektronik ve Elastik Özelliklerinin Temel Prensipler Yöntemiyle İncelenmesi, 2014 - 2016
- UĞUR Ş., UĞUR G., Project Supported by Higher Education Institutions, Bazı Kübik Kristallerin Yapısal Elektronik Elastik Özelliklerinin Teorik Olarak İncelenmesi, 2014 - 2015
- UĞUR Ş., UĞUR G., Project Supported by Higher Education Institutions, L21 Yapıdaki Heusler Bileşiklerinin Yapısal Elektronik Optik ve Termodinamik Özelliklerinin Yoğunluk Fonksiyonel Teorisi ile İncelenmesi, 2013 - 2015
- UĞUR Ş., Project Supported by Higher Education Institutions, Dörtlü Heusler Bileşiklerinin Yapısal, Elektronik, Elastik ve Titreşim Özelliklerinin İncelenmesi, 2012 - 2014
- UĞUR Ş., Project Supported by Higher Education Institutions, Kübik Yapıdaki Bazı Metalik ve Yarı-Metalik Heusler Bileşiklerinin Yoğunluk Fonksiyonel Teorisi ile İncelenmesi, 2012 - 2014
- UĞUR Ş., Project Supported by Higher Education Institutions, Klinoptilolitlerin optiksel değerlendirilmesi ve dielektrik özellikleri, 2012 - 2013
- UĞUR Ş., Project Supported by Higher Education Institutions, CsCl (B<sub>2</sub>) tipi bazı ikili bileşiklerin yapısal, elektronik, elastik ve titreşim özelliklerinin teorik olarak incelenmesi, 2009 - 2011

## Scientific Refereeing

PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, Journal Indexed in SSCI, June 2020

## Tasks In Event Organizations

- Uğur Ş., 5th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2024), Scientific Congress, Ankara, Turkey, Haziran 2024
- Uğur Ş., 6th International Conference on the World of Technology and Advanced Materials "WITAM'23", Scientific Congress, Batna, Algeria, Ekim 2023
- Uğur Ş., International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022), Scientific Congress, Ankara, Turkey, Aralık 2022
- Uğur Ş., 2. International Eurasian Conference on Science, Engineering and Technology, Scientific Congress, Gaziantep, Turkey, Ekim 2020
- Uğur Ş., The International workshop on the thermodynamics of metallic alloys the International Congress on the World of Technology and Advanced Materials (WITAM-2019), Scientific Congress, Batna, Algeria, Kasım 2019

Uğur Ş., 3ND INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS (WITAM-2018), Scientific Congress, Kırşehir, Turkey, Eylül 2018

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## **Metrics**

Publication: 246

Citation (WoS): 1034

Citation (Scopus): 1220

H-Index (WoS): 18

H-Index (Scopus): 20

## **Awards**

Uğur Ş., GAZİ ÜNİVERSİTESİ REKTÖRLÜĞÜ TARAFINDAN 2021 ve 2022 YILINDA YAPILAN AKADEMİK YAYINLAR İÇİN AKADEMİK TEŞVİK VE ATIF ÖDÜLÜ VERİLMİŞTİR .(20.12.2023), Gazi Üniversitesi, December 2023

Uğur Ş., TÜBİTAK TEŞVİK ÖDÜLÜ, Tübitak, July 2023

Uğur Ş., DOĞA BİLİMLERİ ALANINDA BİLİMSEL TELİF VE ÇEVİRİ ESER ÖDÜLLERİ (TEÇEP) Kapsamında ÇEVİRİ ESER ÖDÜL (MANSİYON) BERATI VERİLMİŞTİR., Türkiye Bilimler Akademisi (Tüba), June 2014

## **Non Academic Experience**

MİLLİ EĞİTİM BAKANLIĞI

MİLLİ EĞİTİM BAKANLIĞI