

Assoc. Prof. GÖKHAN SÜRÜCÜ

Personal Information

Office Phone: [+90 312 202 8351](tel:+903122028351)

Email: gokhansurucu@gazi.edu.tr

Other Email: info@gokhansurucu.com

Web: <https://avesis.gazi.edu.tr/arastirma-grubu/srg>

Address: Gazi Üniversitesi Teknoloji Fakültesi Enerji Sistemleri Mühendisliği Bölümü Dursun Önkuzu Binası (B-Blok) Zemin K B18 06560 Teknikokullar Yenimahalle / Ankara

International Researcher IDs

ScholarID: o1df-9wAAAAJ

ORCID: 0000-0002-3910-8575

Publons / Web Of Science ResearcherID: U-7153-2017

ScopusID: 35957498000

Yoksis Researcher ID: 215832

Biography

Assoc. Prof. Dr. Gökhan SÜRÜCÜ received his Ph.D., M.Sc, and Bachelor's degrees from Gazi University. Recently, he is a faculty member of the Department of Energy Systems Engineering, Gazi University.

Assoc. Dr. Gökhan SÜRÜCÜ conducts theoretical and experimental research to investigate and determine the basic physical properties of functional materials in energy applications.

He is interested in Computational Materials Science, Solar cell, Hydrogen Energy, Topological Materials and Energy Applications. Currently, He is working on materials with varying topological properties for the Hydrogen Evolution Reaction (HER). In addition, there are collaborations with national and international groups to reveal the detailed properties of the materials.

Education Information

Post Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 2016 - 2018

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2010 - 2014

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2007 - 2010

Undergraduate, Gazi University, Fen Fakültesi, Fizik, Turkey 2002 - 2006

Dissertations

Doctorate, $W_{1-x}Tc_xB_2$ ($x = 0.1 \sim 0.9$), Pd_3X ($x = Ti, Zr, Hf$) alaşımlarının ve $Tin+1GaN$ ($n=1,2,3$) bileşiklerinin ab initio yöntemlerle incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, 2014

Postgraduate, Bazı A3B (L12) tipi alaşımların yapısal, elektronik, elastik, termodinamik ve titreşimsel özelliklerinin ab initio yöntemlerle incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, 2009

Research Areas

Renewable energy, Solar energy, Hydrogen Technologies and Fuel Cells, Nanomaterials

Academic Titles / Tasks

Associate Professor, Gazi University, Teknoloji Fakültesi, Enerji Sistemleri Mühendisliği, 2022 - Continues
Associate Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 2019 - 2022
Assistant Professor, Kirşehir Ahi Evran University, 2014 - 2019
Lecturer, Cankaya University, Faculty Of Engineering, Matematik-Bilgisayar, 2009 - 2011

Academic and Administrative Experience

University Executive Board Member, Kirşehir Ahi Evran University, 2020 - 2022
Head of Department, Kirşehir Ahi Evran University, 2015 - 2016
University Executive Board Member, Kirşehir Ahi Evran University, 2014 - 2016

Courses

FİZİK II, Undergraduate, 2023 - 2024
ENERJİ SİSTEMLERİNİN PROJELENDİRİLMESİ, Undergraduate, 2022 - 2023
YARIİLETKEN TEKNOLOJİLERİ, Undergraduate, 2022 - 2023
MEZUNİYET PROJESİ, Undergraduate, 2022 - 2023
FİZİK I, Undergraduate, 2022 - 2023
ENERJİ SİSTEM TASARIMI, Undergraduate, 2022 - 2023
ENERJİ YÖNETİMİ, Undergraduate, 2020 - 2021
PHYSICS II, Undergraduate, 2010 - 2011
PHYSICS I, Undergraduate, 2009 - 2010

Advising Theses

Sürücü G., A density functional theory investigation for solid state hydrogen storage materials, Doctorate, A.GENCER(Student), 2019
Sürücü G., LaMgNi₄H_x (x=1, 4, 7) bileşiğinin mekanik ve titreşimsel özellikleri üzerine hidrojenin etkisi, Postgraduate, M.BAHADIR(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Photoantimicrobial and Photocatalytic Hydrogen Evolution Activities of Seleno-Chevrel Phases**
Kuru T., Sarılmaz A., Çekceoğlu İ. A., Aslan E., Gencer A., Sürücü G., Ozel F., Patir I. H.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.11, pp.110190-110199, 2023 (SCI-Expanded)
- II. **Investigation of Tungsten-Based Seleno-Chevrel Compounds with Different Compositions for Efficient Water Splitting**
Dag T. S., Sürücü G., Gencer A., Surucu O., Ozel F., Ciftci Y.
Advanced Theory and Simulations, 2023 (SCI-Expanded)
- III. **DFT Insights into Noble Gold-Based Compound Li₅AuP₂: Effect of Pressure on Physical Properties**
Sürücü G., Gencer A., Surucu O., Ali M. A.
ACS Omega, vol.8, 2023 (SCI-Expanded)
- IV. **Topological nodal line phonons: Recent advances in materials realization**

Wang X, Yang T, Cheng Z, Surucu G., Wang J., Zhou F., Zhang Z., Zhang G.

APPLIED PHYSICS REVIEWS, vol.9, no.4, 2022 (SCI-Expanded)

- V. **Equiatomic Quaternary CoXCrAl (X = V, Nb, and Ta) Heusler Compounds: Insights from DFT Calculations**
Dag T. S., Gencer A., Ciftci Y., Sürücü G.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.560, pp.169620-169631, 2022 (SCI-Expanded)
- VI. **Complex nodal structure phonons formed by open and closed nodal lines in CoAsS and Na₂CuP solids**
Ding G., Sun T., Sürücü G., Surucu O., Gencer A., Wang X.
Physical chemistry chemical physics : PCCP, vol.24, no.28, pp.17210-17216, 2022 (SCI-Expanded)
- VII. **The spin effects on electronic, optical and mechanical properties of new ferromagnetic chalcopyrite: YMnS₂**
YILDIZ B., Erkisi A., Surucu G.
MATERIALS CHEMISTRY AND PHYSICS, vol.284, 2022 (SCI-Expanded)
- VIII. **Copper-based thiospinel quantum dots as potential candidates for nonlinear optical applications**
Gundogdu Y., Sarilmaz A., Gencer A., Ozel F., SÜRÜCÜ G., Kilic H. S., Ersoz M.
Optics and Laser Technology, vol.148, 2022 (SCI-Expanded)
- IX. **Exploration of carbon additives to the synthesis of Cu₂Mo₆S₈ structures and their electrocatalytic activity in oxygen reduction reaction**
Karanfil G., Coskun H., Karakis M., Sarilmaz A., Gencer A., Sürücü G., Aljabour A., Ozel F.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.8, pp.5326-5336, 2022 (SCI-Expanded)
- X. **Pressure and spin effect on the stability, electronic and mechanic properties of three equiatomic quaternary Heusler (FeVHfZ, Z = Al, Si, and Ge) compounds**
Sürücü G., Gencer A., Surucu O., Usanmaz D., Candan A.
MATERIALS TODAY COMMUNICATIONS, vol.29, 2021 (SCI-Expanded)
- XI. **Equiatomic quaternary Heusler compounds TiVFeZ (Z=Al, Si, Ge): Half-metallic ferromagnetic materials**
Gencer A., Surucu O., Usanmaz D., Khenata R., Candan A., SÜRÜCÜ G.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.883, 2021 (SCI-Expanded)
- XII. **Experimental and theoretical investigation of the mechanical characteristics of sillenite compound: Bi₁₂GeO₂₀**
SÜRÜCÜ G., Isik M., Gencer A., HASANLI N.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.882, 2021 (SCI-Expanded)
- XIII. **Evaluation of mechanical properties of Bi₁₂SiO₂₀ sillenite using first principles and nanoindentation**
Isik M., SÜRÜCÜ G., Gencer A., HASANLI N.
PHILOSOPHICAL MAGAZINE, vol.101, no.20, pp.2200-2215, 2021 (SCI-Expanded)
- XIV. **Electronic, optical and thermodynamic characteristics of Bi₁₂SiO₂₀ sillenite: First principle calculations**
Isik M., Sürücü G., Gencer A., Hasanlı N.
MATERIALS CHEMISTRY AND PHYSICS, vol.267, 2021 (SCI-Expanded)
- XV. **First principles study of Bi₁₂GeO₂₀: Electronic, optical and thermodynamic characterizations**
Isik M., SÜRÜCÜ G., Gencer A., HASANLI N.
MATERIALS TODAY COMMUNICATIONS, vol.27, 2021 (SCI-Expanded)
- XVI. **Enhanced hydrogen storage of a functional material: Hf₂CF₂ MXene with Li decoration**
Gencer A., Aydın S., Surucu O., Wang X., Deligöz E., Sürücü G.
APPLIED SURFACE SCIENCE, vol.551, 2021 (SCI-Expanded)
- XVII. **Electronic and thermodynamic properties of lanthanum tetraboride on low-temperature experimental and ab-initio calculation data**
Sürücü G., Ozisik H., Deligoz E., Shein I. R., Matovnikov A., Mitroshenkov N., Morozov A., Novikov V. V.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.862, 2021 (SCI-Expanded)
- XVIII. **The investigation of electronic nature and mechanical properties under spin effects for new half-**

metallic ferromagnetic chalcogenides Ag_3CrX_4 ($X = \text{S, Se, and Te}$)

Erkisi A., YILDIZ B., Wang X., Isik M., Ozcan Y., SÜRÜCÜ G.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.519, 2021 (SCI-Expanded)

- XIX. **Editorial: Computational Modeling of Spintronic Materials**
Wang X., Cheng Z., Sürücü G.
FRONTIERS IN MATERIALS, vol.7, 2021 (SCI-Expanded)
- XX. **The investigation of electronic, anisotropic elastic and lattice dynamical properties of MAB phase nanolaminated ternary borides: M_2AlB_2 ($M = \text{Mn, Fe and Co}$) under spin effects**
SÜRÜCÜ G., YILDIZ B., Erkisi A., Wang X., Surucu O.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.838, 2020 (SCI-Expanded)
- XXI. **Anisotropic mechanical properties of $\text{Tl}_4\text{Ag}_{18}\text{Te}_{11}$ compound with low thermal conductivity**
Gencer A., Surucu O., SÜRÜCÜ G., Deligoz E.
JOURNAL OF SOLID STATE CHEMISTRY, vol.289, 2020 (SCI-Expanded)
- XXII. **First-principles studies of $\text{Ti}_{n+1}\text{SiN}(n)$ ($n=1, 2, 3$) MAX phase**
SÜRÜCÜ G., Gullu H. H., Candan A., YILDIZ B., Erkisi A.
PHILOSOPHICAL MAGAZINE, vol.100, no.17, pp.2183-2204, 2020 (SCI-Expanded)
- XXIII. **Pnma metal hydride system LiBH : a superior topological semimetal with the coexistence of twofold and quadruple degenerate topological nodal lines**
Zhou F., Ding G., Cheng Z., Sürücü G., Chen H., Wang X.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.32, no.36, 2020 (SCI-Expanded)
- XXIV. **Investigation of structural, electronic, magnetic and lattice dynamical properties for XCoBi ($X: \text{Ti, Zr, Hf}$) Half-Heusler compounds**
SÜRÜCÜ G., Isik M., Candan A., Wang X., Gullu H. H.
PHYSICA B-CONDENSED MATTER, vol.587, 2020 (SCI-Expanded)
- XXV. **Rich topological nodal line bulk states together with drum-head-like surface states in NaAlGe with anti-PbFCl type structure**
Wang X., Ding G., Cheng Z., Sürücü G., Wang X., Yang T.
JOURNAL OF ADVANCED RESEARCH, vol.23, pp.95-100, 2020 (SCI-Expanded)
- XXVI. **Coexistence of parabolic and linear band crossings and electron-doped spin-gapless properties in rhombohedral type YbBO_3**
Yang T., Cheng Z., SÜRÜCÜ G., Wang X.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.823, 2020 (SCI-Expanded)
- XXVII. **Lattice dynamical and thermo-elastic properties of M_2AlB ($M = \text{V, Nb, Ta}$) MAX phase borides**
SÜRÜCÜ G., Gencer A., Wang X., Surucu O.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.819, 2020 (SCI-Expanded)
- XXVIII. **Novel topological nodal lines and exotic drum-head-like surface states in synthesized CsCl-type binary alloy TiOs**
Wang X., Ding G., Cheng Z., Surucu G., Wang X., Yang T.
JOURNAL OF ADVANCED RESEARCH, vol.22, pp.137-144, 2020 (SCI-Expanded)
- XXIX. **Properties of BaYO_3 perovskite and hydrogen storage properties of BaYO_3H_x**
Gencer A., Surucu G.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.17, pp.10507-10515, 2020 (SCI-Expanded)
- XXX. **CaXH_3 ($X = \text{Mn, Fe, Co}$) perovskite-type hydrides for hydrogen storage applications**
Surucu G., Gencer A., Candan A., Gullu H. H., Isik M.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.3, pp.2345-2354, 2020 (SCI-Expanded)
- XXXI. **Enhancement of hydrogen storage properties of Ca_3CH antiperovskite compound with hydrogen doping**
Gencer A., Sürücü G.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.1, pp.567-573, 2020 (SCI-Expanded)
- XXXII. **Electronic, mechanical and lattice dynamical properties of YXB_4 ($X = \text{Cr, Mn, Fe, and Co}$) compounds**
Candan A., Surucu G., Gencer A.

- PHYSICA SCRIPTA, vol.94, no.12, 2019 (SCI-Expanded)
- XXXIII. **Density functional theory (DFT) study of BaScO₃H_{0.5} compound and its hydrogen storage properties**
Gencer A., Surucu G.
CANADIAN JOURNAL OF PHYSICS, vol.97, no.11, pp.1191-1199, 2019 (SCI-Expanded)
- XXXIV. **First-principle investigation for the hydrogen storage properties of NaXH₃ (X= Mn, Fe, Co) perovskite type hydrides**
Surucu G., Candan A., Gencer A., Isik M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.57, pp.30218-30225, 2019 (SCI-Expanded)
- XXXV. **Transition metal-doped janus monolayer SMOSe with excellent thermal spin filter and spin Seebeck effect**
Ding G., Wei M., Surucu G., Liang Z., Wang X.
APPLIED SURFACE SCIENCE, vol.491, pp.750-756, 2019 (SCI-Expanded)
- XXXVI. **First principles study on the structural, electronic, mechanical and lattice dynamical properties of XRhSb (X = Ti and Zr) paramagnet half-Heusler antimonides**
SÜRÜCÜ G., CANDAN A., Erkisi A., Gencer A., Gullu H. H.
MATERIALS RESEARCH EXPRESS, vol.6, no.10, 2019 (SCI-Expanded)
- XXXVII. **First principles study on new half-metallic ferromagnetic ternary zinc-based sulfide and telluride (Zn₃VS₄ and Zn₃VTe₄)**
Erkisi A., YILDIZ B., DEMİR K., SÜRÜCÜ G.
MATERIALS RESEARCH EXPRESS, vol.6, no.7, 2019 (SCI-Expanded)
- XXXVIII. **Investigation of structural, electronic and lattice dynamical properties of XNiH₃ (X = Li, Na and K) perovskite type hydrides and their hydrogen storage applications**
Gencer A., Surucu G.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.29, pp.15173-15182, 2019 (SCI-Expanded)
- XXXIX. **MgTiO₃H_x and CaTiO₃H_x perovskite compounds for hydrogen storage applications**
Gencer A., Surucu G., AL S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.23, pp.11930-11938, 2019 (SCI-Expanded)
- XL. **The electronic and elasticity properties of new half-metallic chalcogenides Cu(3)TMCh(4) (TM = Cr, Fe and Ch = S, Se, Te): an ab initio study**
Erkisi A., SÜRÜCÜ G.
PHILOSOPHICAL MAGAZINE, vol.99, no.4, pp.513-529, 2019 (SCI-Expanded)
- XLI. **The effect of hydrogen on the electronic, mechanical and phonon properties of LaMgNi₄ and its hydrides for hydrogen storage applications**
Baysal M. B., Surucu G., Deligoz E., Ozisik H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.52, pp.23397-23408, 2018 (SCI-Expanded)
- XLII. **Electronic and lattice dynamical properties of Ti₂SiB MAX phase**
Gencer A., Surucu G.
MATERIALS RESEARCH EXPRESS, vol.5, no.7, 2018 (SCI-Expanded)
- XLIII. **The structural, electronic, magnetic, and mechanical properties of perovskite oxides PbM_{1/2}Nb_{1/2}O₃ (M = Fe, Co and Ni)**
Erkisi A., Surucu G., Deligoz E.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.32, no.6, 2018 (SCI-Expanded)
- XLIV. **Investigation of structural, electronic, anisotropic elastic, and lattice dynamical properties of MAX phases borides: An Ab-initio study on hypothetical &ITM(2)AB&IT (M = &ITTi&IT, &ITZr&IT, & A = &ITAl&IT, &ITGa&IT, &ITIn&IT) compounds**
SÜRÜCÜ G.
MATERIALS CHEMISTRY AND PHYSICS, vol.203, pp.106-117, 2018 (SCI-Expanded)
- XLV. **DFT-based ab-initio study of half-Heusler KCaP compound**
Mogulkoc Y., Ciftci Y., Surucu G.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.20, no.1-2, pp.61-68, 2018 (SCI-Expanded)

- XLVI. **The Investigation of Electronic, Elastic and Vibrational Properties of an Interlanthanide Perovskite: PrYbO₃**
KADEROĞLU Ç., SÜRÜCÜ G., Erkisi A.
JOURNAL OF ELECTRONIC MATERIALS, vol.46, no.10, pp.5827-5836, 2017 (SCI-Expanded)
- XLVII. **An ab initio study on the investigation of structural, electronic, mechanical and lattice dynamical properties of the M(2)AX type MAX phases Sc₂AlB_{0.5}Co_{0.5}, Sc₂AlB_{0.5}N_{0.5} and Sc₂AlCo_{0.5}N_{0.5} compounds**
SÜRÜCÜ G., Erkisi A.
MATERIALS RESEARCH EXPRESS, vol.4, no.10, 2017 (SCI-Expanded)
- XLVIII. **Structural phase transition, electronic, elastic, and vibrational properties of LiAl intermetallic compound: insights from first-principles calculations**
Mogulkoc Y., Ciftci Y., Surucu G.
CANADIAN JOURNAL OF PHYSICS, vol.95, no.8, pp.691-698, 2017 (SCI-Expanded)
- XLIX. **The investigation of electronic, magnetic, mechanical, and lattice dynamical properties of PdMX (M = Cr, Fe and X = Si and Ge) ferromagnetic half-Heusler metallics: an ab initio study**
Erkisi A., SÜRÜCÜ G.
MATERIALS RESEARCH EXPRESS, vol.4, no.6, 2017 (SCI-Expanded)
- L. **Investigation of structural, electronic and anisotropic elastic properties of Ru-doped WB₂ compound by increased valence electron concentration**
SÜRÜCÜ G., KADEROĞLU Ç., DELİGÖZ E., ÖZİŞİK H.
MATERIALS CHEMISTRY AND PHYSICS, vol.189, pp.90-95, 2017 (SCI-Expanded)
- LI. **Structural and Thermoelectronic Properties of Chalcopyrite MgSiX₂ (X = P, As, Sb)**
Kocak B., Ciftci Y., Surucu G.
JOURNAL OF ELECTRONIC MATERIALS, vol.46, no.1, pp.247-264, 2017 (SCI-Expanded)
- LII. **The investigation of electronic, mechanical and lattice dynamical properties of PdCoX (X=Si and Ge) half-Heusler metallics in , and structural phases: an ab initio study**
Erkisi A., SÜRÜCÜ G., Ellialtioglu R.
PHILOSOPHICAL MAGAZINE, vol.97, no.26, pp.2237-2254, 2017 (SCI-Expanded)
- LIII. **Produce of graphene/iron pyrite (FeS₂) thin films counter electrode for dye-sensitized solar cell**
Kilic B., Turkdogan S., Ozer O. C., Asgin M., Bayrakli O., Surucu G., Astam A., Ekinci D.
MATERIALS LETTERS, vol.185, pp.584-587, 2016 (SCI-Expanded)
- LIV. **First-Principles Study on the MAX Phases Tin+1Ga_nN (n=1,2, and 3)**
SÜRÜCÜ G., Colakoglu K., DELİGÖZ E., KÖRÖZLÜ N.
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.4256-4264, 2016 (SCI-Expanded)
- LV. **Anisotropic elastic and vibrational properties of Ru₂B₃ and Os₂B₃: a first-principles investigation**
Ozisik H., Deligoz E., Surucu G., Ozisik H. B.
MATERIALS RESEARCH EXPRESS, vol.3, no.7, 2016 (SCI-Expanded)
- LVI. **First-principles investigation of LaGaO₃ and LaInO₃ lanthanum perovskite oxides**
Erkisi A., GÖKOĞLU G., SÜRÜCÜ G., Ellialtioglu R., YILDIRIM E. K.
PHILOSOPHICAL MAGAZINE, vol.96, no.19, pp.2040-2058, 2016 (SCI-Expanded)
- LVII. **Thermo-Elastic and Lattice Dynamical Properties of Pd₃X (X = Ti, Zr, Hf) Alloys: An Ab Initio Study**
Surucu G., Colakoglu K., Ciftci Y., Ozisik H. B., Deligoz E.
BRAZILIAN JOURNAL OF PHYSICS, vol.45, no.6, pp.604-614, 2015 (SCI-Expanded)
- LVIII. **Structural, electronic and mechanical properties of W_{1-x}Tc_xB₂ alloys**
Surucu G., Colakoglu K., Deligoz E., Ciftci Y.
SOLID STATE COMMUNICATIONS, vol.171, pp.1-4, 2013 (SCI-Expanded)
- LIX. **Ab-initio studies of some rare-earth borides: CeB₂, PrB₂, NdB₂, and PmB₂**
Özışık H., Deligöz E., Colakoglu K., Surucu G.
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.104, no.9, pp.858-864, 2013 (SCI-Expanded)
- LX. **Structural and mechanical stability of rare-earth diborides**
ÖZİŞİK H., DELİGÖZ E., Colakoglu K., Surucu G.

- CHINESE PHYSICS B, vol.22, no.4, 2013 (SCI-Expanded)
- LXI. **The electronic and optical properties of MB₁₂ (M = Zr, Hf, Y, Lu) dodecaboride compounds**
Korozlu N., Surucu G.
PHYSICA SCRIPTA, vol.87, no.1, 2013 (SCI-Expanded)
- LXII. **Structural, electronic, elastic, thermodynamic and vibration properties of TbN compound from first principles calculations**
Ciftci Y., Ozayman M., Surucu G., Colakoglu K., Deligoz E.
SOLID STATE SCIENCES, vol.14, no.3, pp.401-408, 2012 (SCI-Expanded)
- LXIII. **Electronic, elastic and optical properties on the Zn_{1-x}MgxSe mixed alloys**
Surucu G., Colakoglu K., Deligoz E., Ciftci Y., Korozlu N.
JOURNAL OF MATERIALS SCIENCE, vol.46, no.4, pp.1007-1014, 2011 (SCI-Expanded)
- LXIV. **Mechanical and phonon properties of the superhard LuB₂, LuB₄, and LuB₁₂ compounds**
Deligoz E., Ozisik H., Colakoglu K., Surucu G., Ciftci Y.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, no.5, pp.1711-1715, 2011 (SCI-Expanded)
- LXV. **Structural and lattice dynamical properties of Zintl NaIn and NaTl compounds**
Ozisik H. B., Colakoglu K., Surucu G., Ozisik H.
COMPUTATIONAL MATERIALS SCIENCE, vol.50, no.3, pp.1070-1076, 2011 (SCI-Expanded)
- LXVI. **Mechanical and lattice dynamical properties of the Re₂C compound**
ÖZİŞİK H., DELİĞÖZ E., Colakoglu K., Surucu G.
PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS, vol.4, no.12, pp.347-349, 2010 (SCI-Expanded)
- LXVII. **The electronic and optical properties of Zn_{1-x}CaxSe mixed alloys**
Surucu G., Colakoglu K., Deligoz E., Korozlu N., Ciftci Y.
SOLID STATE COMMUNICATIONS, vol.150, no.29-30, pp.1413-1418, 2010 (SCI-Expanded)
- LXVIII. **Thermo-elastic and lattice dynamical properties of Rh₃Hf compound**
Surucu G., Colakoglu K., Deligoz E., Korozlu N., Ozisik H.
COMPUTATIONAL MATERIALS SCIENCE, vol.48, no.4, pp.859-865, 2010 (SCI-Expanded)
- LXIX. **The lattice dynamical and thermo-elastic properties of Rh₃X (X = Ti, V) compounds**
Surucu G., Colakoglu K., Deligoz E., Ozisik H.
INTERMETALLICS, vol.18, no.2, pp.286-291, 2010 (SCI-Expanded)
- LXX. **First-principles study of structural, elastic, lattice dynamical and thermodynamical properties of GdX (X = Bi, Sb)**
Korozlu N., Colakoglu K., Deligoz E., Surucu G.
PHILOSOPHICAL MAGAZINE, vol.90, no.14, pp.1833-1852, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Theoretical Study on Electronic Behavior and Mechanical Properties of Ferromagnetic Manganese Selenide: AgMn₂Se₄**
ERKİŞİ A., SÜRÜCÜ G.
SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ FEN DERGİSİ = SÜLEYMAN DEMİREL UNIVERSITY FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, vol.16, no.2, pp.339, 2021 (Peer-Reviewed Journal)
- II. **First-Principles Study on Magnetic Nature and Electronic Behavior of Silver- Based Sulfide: Ag₃MnS₄**
ERKİŞİ A., SÜRÜCÜ G.
SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ FEN DERGİSİ = SÜLEYMAN DEMİREL UNIVERSITY FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, vol.15, pp.203-212, 2020 (Peer-Reviewed Journal)
- III. **Anisotropic Elastic and Lattice Dynamical Properties of Cr₂AB MAX Phases Compounds**
İNANÇ Y., BAYHAN Ü., GENCER A., SÜRÜCÜ G.
Avrupa Bilim ve Teknoloji Dergisi, vol.15, pp.351-359, 2019 (Peer-Reviewed Journal)

- IV. **The Investigation D03-type Fe3M (M=Al, Ga, Si and Ge) Full-Heusler Alloys Within First Principles Study**
Erkisi A., Sürücü G.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGİSİ, vol.21, pp.927-936, 2018 (Peer-Reviewed Journal)
- V. **The Electronic, Optical and Lattice Dynamical Properties of YIr2X2 (X=Si, Ge) Polymorphs: A DFT Study**
Bicer A., Sürücü G.
Aksaray University Journal of Science and Engineering, vol.2, 2018 (ESCI)
- VI. **Study of electronic and lattice dynamical properties of antiperovskite-type nitrides XNNi3 (X= Pd, Sn and Sb)**
Moğulkoç Y., Çiftci Y., Sürücü G.
International Journal of Biosensors Bioelectronics, vol.4, no.2, pp.70-75, 2018 (Peer-Reviewed Journal)
- VII. **The First Principles Investigation of Structural, Electronic, Mechanical and Lattice Dynamical Properties of the B and N Doped M2AX Type MAX Phases Ti2AlB0.5C0.5 and Ti2AlN0.5C0.5 Compounds**
SÜRÜCÜ G., ERKİŞİ A.
BOR DERGİSİ, vol.3, pp.24-32, 2018 (Peer-Reviewed Journal)
- VIII. **Enhancement in Photovoltaic Characteristics of CdS/CdTe Heterojunction**
Surucu G., Gullu H. H., Bayraklı O., PARLAK M.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGİSİ, vol.20, no.4, pp.801-805, 2017 (ESCI)
- IX. **THE INVESTIGATION OF ELECTRONIC AND THERMO-ELASTIC PROPERTIES OF LANTHANUM ORTHOFERRITE (LaFeO3) PEROVSKITE**
Sürücü G., Erkişi A.
BALKAN PHYSICS LETTERS, vol.25, pp.1-19, 2017 (Peer-Reviewed Journal)
- X. **DFT study on the Rh3Zr and Rh3Nb compounds**
Sürücü G., Çolakoğlu K., Körözlü N., Kaderoğlu Ç.
Asian Journal of Physics, vol.24, no.5, pp.777-782, 2015 (Peer-Reviewed Journal)
- XI. **Thermo-Elastic Properties of PtBi Compound**
Sürücü G., Çolakoğlu K.
AJP Fizika , vol.16, no.2, pp.145-149, 2010 (Peer-Reviewed Journal)
- XII. **The Structural, Elastic, Electronic and Optical Properties of LaPdBi Compound**
Körözlü N., Çolakoğlu K., Deligöz E., Sürücü G.
BALKAN PHYSICS LETTERS, vol.18, pp.181040, 2010 (Peer-Reviewed Journal)
- XIII. **Ab-initio Total Energy Calculations on the AgNd Compound**
Sürücü G., Çolakoğlu K., Deligöz E., Çiftci Y.
BALKAN PHYSICS LETTERS, vol.15, pp.151018, 2009 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Computational Modeling of Spintronic Materials**
Wang X., SÜRÜCÜ G., Cheng Z.
Frontiers, 2021

Refereed Congress / Symposium Publications in Proceedings

- I. **Environmentally Friendly and Non-Toxic Cu-Sb-Se Solar-Cell With ZnSnO Window Layer: Advancing Sustainable Energy Solutions**
Bal E., Sürücü Ö., Bektaş T., Parlak M., Sürücü G.
MAS 18th INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL & MEDICAL

SCIENCES, Ankara, Turkey, 14 - 15 August 2023, pp.51

- II. **2D WSi₂N₄ and WSiGeN₄ Materials for Enhanced Photocatalytic Hydrogen Production**
Himmet F., Gencer A., Sürücü G.
MAS 18th INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL & MEDICAL SCIENCES, Ankara, Turkey, 14 - 15 August 2023, pp.52
- III. **Investigation of Solid-State Hydrogen Storage Materials, 2D Catalysts, and Their Topological Engineering**
Sürücü G.
5th International conference on "Physics for Sustainable Development & Technology (ICPSDT-2023)", Chattagam, Bangladesh, 7 - 08 September 2023, pp.1
- IV. **Investigation of Mechanical Properties of NixW₆Se₈ (x=1,2,3,4) Chevrel Phase Compounds**
Dağ T. S., Gencer A., Özel F., Sürücü G., Çiftci Y.
International Conference on Advanced Materials Science & Engineering and High Tech Device Applications, Ankara, Turkey, 27 - 29 October 2022, pp.74
- V. **Investigation of FeXMo₆Se₈ (x = 1, 2, 3, 4) Chevrel Phases for Photocatalytic Hydrogen Production Performance and their Topological Properties**
Gencer A., Sürücü G., Özel F.
International Conference on Advanced Materials Science & Engineering and High Tech Device Applications, Ankara, Turkey, 27 - 29 October 2022, pp.75
- VI. **INVESTIGATION OF HYDROGEN STORAGE TECHNIQUES USING DENSITY FUNCTIONAL THEORY**
Gencer A., Sürücü G.
UNİKOP 9. Ulusal KOP Bölgesel Kalkınma Sempozyumu, Konya, Turkey, 24 - 25 October 2022, pp.1-2
- VII. **Water splitting performance of selenium based Chevrel phase: CoW₆Se₈**
Gencer A., Sürücü G., Özel F.
E-MRS 2022 Spring Meeting, Strasbourg, France, 3 - 06 June 2022
- VIII. **NiW₆Se₈ Chevrel Phase for Photocatalytic Water Splitting: A DFT Study**
DAĞ T. S., GENCER A., ÖZEL F., SÜRÜCÜ G., ÇİFTÇİ Y.
10. EUROPEAN CONFERENCE ON RENEWABLE ENERGY SYSTEMS, 7 - 09 May 2022, pp.18
- IX. **Hydrogen Storage Characteristics of Perovskite Type Hydrides**
GENCER A., SÜRÜCÜ G.
3rd International Hydrogen Energy Congress & Exhibitions, Ankara, Turkey, 14 - 16 June 2021
- X. **Structural and Electronic Properties of Y₂Te₂O₇ Pyrochlore Oxide**
GENCER A., SÜRÜCÜ G.
International Conference on Advanced Materials Science Engineering and High Tech Devices Applications Exhibition (ICMATSE2020), Ankara, Turkey, 2 - 04 October 2020, pp.265
- XI. **Investigation of Mechanical Properties and the Electronic and Magnetic Behavior of Silver-Based Ferrite Chalcogenides Ag₃FeCh₄ (Ch = S and Se)**
YILDIZ B., ERKİŞİ A., SÜRÜCÜ G.
Turkish Physical Society 36.nd International Physics Congress, İstanbul, Turkey, 1 - 05 September 2020, pp.85
- XII. **Effect of Hydrogen Doping to MgTiH₃ Perovskite Type Hydride to Enhance Hydrogen Storage Properties**
Gencer A., Surucu G.
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019, Ankara, Turkey, 11 - 13 October 2019
- XIII. **An ab initio Study of Cr and Mn Doped MAX Phase TiMSiB**
Yıldız B., Surucu G., Erkisi A.
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019, Ankara, Turkey, 11 - 13 October 2019
- XIV. **Investigation of Electronic, Magnetic and Mechanical Properties of Ternary MAB Phase Cr₂AlB₂Compound: An Ab-Initio**
YILDIZ B., SÜRÜCÜ G., ERKİŞİ A.

6. International Congress on Mathematics, Engineering and Natural Sciences, Adana, Turkey, 8 - 10 March 2019, pp.152
- XV. **First Principles Study of the Vibrational and Thermo-Elastic Properties of BaScO₃ Perovskite Oxide**
Gencer A., Surucu G.
35th International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 4 - 08 September 2019, vol.2178
- XVI. **The Mechanical and Electronic Properties of Spinel Oxides VX₂O₄ (X = Mn and Fe) by First Principle Calculations**
YILDIZ B., Erkisi A., Surucu G.
35th International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 4 - 08 September 2019, vol.2178
- XVII. **DFT Study for the Mechanical and Electronic Properties of Mg₃BH_x (x=1,4,7) Compounds for Hydrogen Storage Applications**
Gencer A., SÜRÜCÜ G.
35th International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 4 - 08 September 2019, vol.2178
- XVIII. **Properties of LiNiH₃ and NaNiH₃ Perovskite Type Hydrides for Hydrogen Storage Applications**
SÜRÜCÜ G., GENCER A.
CSC2018 - Computational Sciences Congress, Amasya, Turkey, 26 - 28 October 2018
- XIX. **Hydrogen Storage Properties of CaTiO₃H_x and MgTiO₃H_x**
GENCER A., SÜRÜCÜ G.
CSC2018 - Computational Sciences Congress, Amasya, Turkey, 26 - 28 October 2018
- XX. **Mechanical, Vibrational and Thermodynamical Properties of Ti₂SiB MAX Phase**
GENCER A., SÜRÜCÜ G.
INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, Kırşehir, Turkey, 21 - 23 September 2018
- XXI. **Hydrogen Storage Properties of MgTiO₃H_x. INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS**
Gencer A., Sürücü G.
INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, Kırşehir, Turkey, 21 - 23 September 2018
- XXII. **DFT Study of BaScO₃H₅ Compound and Its Hydrogen Storage Properties**
GENCER A., SÜRÜCÜ G.
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018
- XXIII. **Properties of BaYO₃ Perovskite and Hydrogen Storage Properties of BaYO₃H_x**
GENCER A., SÜRÜCÜ G.
International Conference on Advanced Nanomaterials, Porto, Portugal, 18 - 20 July 2018
- XXIV. **Hydrogen Storage Properties of BaScO₃H_x Perovskite**
GENCER A., SÜRÜCÜ G.
European Materials Research Society Spring Meeting 2018, Strasbourg, France, 18 - 22 June 2018
- XXV. **Bor'lu Max Faz Bileşiklerin Yapısal, Elektronik, Anizotropik Elastik Ve Örgü Dinamiksel Özelliklerinin İncelenmesi**
SÜRÜCÜ G.
23. YOĞUN MADDE FİZİĞİ ANKARA TOPLANTISI, Ankara, Turkey, 22 December 2017
- XXVI. **Device Behavior Of CZTSe/Si Nanowire Heterojunction**
SÜRÜCÜ G., BAYRAKLI Ö., GÜLLÜ H. H., TERLEMEZOĞLU M., PARLAK M.
Photovoltaic Technical Conference, 26 - 28 October 2017
- XXVII. **Deposition of CZTSe thin films and investigation of their devices properties**
BAYRAKLI Ö., TERLEMEZOĞLU M., GÜLLÜ H. H., YILDIZ D. E., SÜRÜCÜ G., PARLAK M.
International Conference on Condensed Matter and Materials Science, Adana, Turkey, 11 - 15 October 2017
- XXVIII. **Anisotropic Elastic Properties of BaScO₃-xH_x Compounds**

- GENCER A., SÜRÜCÜ G.
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIALS, 11 - 15 October 2017
- XXIX. **CDTE/CDS SOLAR CELL STRUCTURE WITH MOO3/AU BACK CONTACT**
KINACI B., ÖZEN Y., SÜRÜCÜ G.
TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS, 5 - 10 September 2017
- XXX. **Functionalization of Silicon Surface by Thiadiazole Molecule**
KADEROĞLU Ç., SÜRÜCÜ G.
Physical Society 33rd International Physics Congress, 6 - 10 September 2017
- XXXI. **CdTe/CdS Solarcell Structure with MoO3/Au Back Contact**
KINACI B., ÖZEN Y., SÜRÜCÜ G.
TURKISH PHYSICAL SOCIETY 33 INTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017
- XXXII. **Theoretical and Experimental Investigation of Nano-mechanical Characteristics of SnTe Thin Films**
BAYRAKLI Ö., GÜLLÜ H. H., SÜRÜCÜ G., TERLEMEZOĞLU M., PARLAK M.
European Materials Research Society- Spring Meeting 2017, Strasbourg, France, 22 - 26 May 2017
- XXXIII. **Deposition and characterization of ZTSeS thin films for photovoltaic applications**
BAYRAKLI Ö., TERLEMEZOĞLU M., GÜLLÜ H. H., SÜRÜCÜ G., PARLAK M.
Photovoltaic Technical Conference, 26 - 28 April 2017
- XXXIV. **WB2 bileşiminin Yapısal, Elektronik ve Mekanik Özellikleri Üzerine Rutenyum Katkısının Etkisi**
KADEROĞLU Ç., SÜRÜCÜ G.
22. Yoğun Madde Fiziği-Ankara Toplantısı, Ankara Üniversitesi, Ankara, Turkey, 16 December 2016
- XXXV. **Deposition of Boron Doped Graphene for CdTe Solar Cell Applications**
SÜRÜCÜ G., BAYRAKLI Ö., ÖZEN Y., KINACI B.
2nd International Congress on the World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September - 02 October 2016
- XXXVI. **A DFT Study on Structural Phase Transition and Mechanical Properties of LiAl**
MOĞULKOÇ Y., ÇİFTÇİ Y., SÜRÜCÜ G.
2nd International Congress On The World Of Technology And Advanced Materials, 28 September - 02 October 2016
- XXXVII. **Deposition of Boron-Doped Graphene for CdTe Solar Cell Applications**
SÜRÜCÜ G., Bayraklı Ö., ÖZEN Y., KINACI B.
2nd International Congress on the World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September - 02 October 2016
- XXXVIII. **The First Principles Investigation Of LuXO3 Al Ga and In Cubic Perovskite Oxides**
SÜRÜCÜ G., ÇİFTÇİ Y., SÜRÜCÜ G.
Turkish Physical Society 32nd International Physics congress, 6 - 09 September 2016
- XXXIX. **The First Principles Calculations of Structural Electronic and Lattice Dynamical Properties of W2SiX
X B C and N Compounds**
SÜRÜCÜ G., KADEROĞLU Ç., ERKİŞİ A.
Turkish Physical Society 32nd International Physics congress, 6 - 09 September 2016
- XL. **The Investigation Of Electronic Band Structures And Ferroelectric Behaviors Of PbMnO3 M Fe Co
and Ni Multiferroic Perovskites With Ab Initio Method**
ERKİŞİ A., SÜRÜCÜ G., YILDIRIM E. K.
Turkish Physical Society 32nd International Physics congress, 6 - 09 September 2016
- XLI. **The Investigation Of Electronic Mechanical and Lattice Dynamical Properties Of B PdCoX Si and Ge
Half Heusler Metallics An Ab Initio Study**
ERKİŞİ A., ELLİALTIOĞLU M. R., SÜRÜCÜ G.
Turkish Physical Society 32nd International Physics congress, 6 - 09 September 2016
- XLII. **Reaktif Büyütülen Mg0.40Zn0.60 İnce Filmlerin Karakterizasyonları**
Akin N., Akçay N., Özen Y., KINACI B., SÜRÜCÜ G., ÖZÇELİK S.
21. Yoğun Madde Fiziği Toplantısı, Turkey, 25 December 2015, pp.120
- XLIII. **Reaktif Büyütülen Mg0.40Zn0.60 İnce Filmlerin Karakterizasyonları**

- AKIN SÖNMEZ N., AKÇAY N., ÖZEN Y., KINACI B., SÜRÜCÜ G., ÖZÇELİK S.
21. Yoğun Madde Fiziği Ankara Toplantısı, Turkey, 25 December 2015
- XLIV. **Yarı-Heusler LiAlSi Bileşiğinin Yapısal, Elastik, Elektronik ve Dinamik Özelliklerinin İlk Prensiplerle İncelenmesi**
SÜRÜCÜ G., ÇİFTÇİ Y., SÜRÜCÜ G.
21. Yoğun Madde Fiziği-Ankara Toplantısı, Gazi Üniversitesi, Ankara, Turkey, 25 December 2015
- XLV. **a-V3PC2 Bileşiğinin Mekanik, Elektronik, Titreşimsel ve Termodinamik Özelliklerinin Yoğunluk Fonksiyoneli Teorisiyle İncelenmesi**
ALTAY M., SÜRÜCÜ G., KEMAL Ç., ÇİFTÇİ Y.
21. Yoğun Madde Fiziği-Ankara Toplantısı, Gazi Üniversitesi, Ankara, Turkey, 25 December 2015
- XLVI. **LaMgNi4Hx (X =1, 4, 7) bileşiğinde hidrojen konsantrasyonunun elastik anisotropi üzerine etkisi**
BAYSAL M. B., SÜRÜCÜ G., DELİGÖZ E.
21. Yoğun Madde Fiziği-Ankara Toplantısı, Gazi Üniversitesi, Ankara, Turkey, 25 December 2015
- XLVII. **Konsantre Sistem İle Entegre Edilen CdTe Bazlı İnce Film Güneş Hücre Yapısının Verimlilik Analizi**
KINACI B., SÜRÜCÜ G., YAVUZ T., ÖZEN Y., AKIN SÖNMEZ N., AYDEMİR U., ÇÖREKÇİ S., ÖZÇELİK S.
17. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı Fotonik 2015, Turkey, 18 September 2015
- XLVIII. **The Effect of Hydrogen On The Lattice Dynamical Properties Of LaMgNi4Hx X 1 4 7 For Hydrogen Storage Applications**
BAYSAL M. B., SÜRÜCÜ G., DELİGÖZ E.
9th International Physics Conference of the Balkan Physics Union, 24 - 27 August 2015, pp.414
- XLIX. **Performance Evaluation Of CdTe/CdS Solar Cell Structure with Concentrated Photovoltaic System**
KINACI B., ÖZEN Y., AKIN SÖNMEZ N., SÜRÜCÜ G., AYDEMİR U., ÖZÇELİK S.
Balkan Physical Union-BPU9, İstanbul, Turkey, 24 - 27 August 2015
- L. **The Thermo Elastic Mechanic And Electronic Properties Of Lu1 xWxB12 Compounds**
SÜRÜCÜ G., KADEROĞLU Ç.
9th International Physics Conference of the Balkan Physics Union, 24 - 27 August 2015, pp.204
- LI. **Performance Evaluation of CdTe CdS Solar Cell Structure With Concentrated Photovoltaic System**
KINACI B., ÖZEN Y., AKIN N., SÜRÜCÜ G., AYDEMİR U., ÖZÇELİK S.
9th International Physics Conference of the Balkan Physical Union, 24 - 27 August 2015
- LII. **Study on efficiency of CdTe/CdS concentrated solar cell**
KINACI B., ÖZEN Y., AKIN N., SÜRÜCÜ G.
11th Nanoscience and Nanotechnology Conference NanoTR-11, Ankara, Turkey, 22 - 25 June 2015
- LIII. **The Lattice Dynamical and Electronic Properties Of PrYbO3 Compound From First Principles Calculations**
KADEROĞLU Ç., SÜRÜCÜ G., KINACI B.
11th Nanoscience and Nanotechnology Conference (NanoTR-11), 22 - 25 June 2015
- LIV. **The lattice dynamical and electronic properties of PrYbO3 compound from first principles calculations**
KADEROĞLU Ç., SÜRÜCÜ G., KINACI B.
11th Nanoscience and Nanotechnology Conference, 22 - 25 June 2015
- LV. **LaMgNi4Hx (x=1,4,7) bileşiğinde hidrojen konsantrasyonunun mekanik özellikleri üzerine etkisi**
BAYSAL M. B., SÜRÜCÜ G., DELİGÖZ E.
20. Yoğun Madde Fiziği-Ankara Toplantısı, Hacettepe Üniversitesi, Ankara, Turkey, 26 December 2014
- LVI. **LaMO3 (M=Ga,In ve Tl) Lantanit Perovskit Oksitlerinin Ab-Initio Yöntemi ile Yapısal, Mekanik ve Elektronik Özelliklerinin İncelenmesi**
ERKİŞİ A., YILDIRIM E. K., SÜRÜCÜ G., ELLİALTIOĞLU R.
20. Yoğun Madde Fiziği-Ankara Toplantısı, Hacettepe Üniversitesi, Ankara, Turkey, 26 December 2014
- LVII. **Investigation of mechanical electronic, vibrational and thermodynamic properties of a-V3AsC2 composite with Ab-initio**
ALTAY M., KEMAL Ç., SÜRÜCÜ G.
4th National Crystallographic Meeting with International Participation, Diyarbakır, Turkey, 17 - 19 May 2014

- LVIII. V2PC Bileşiminin Yapısal, Mekanik, Elektronik, Titreşimsel ve Termodinamik Özelliklerinin Ab-initio Yöntemle İncelenmesi**
ALTAY M., KEMAL Ç., ÇİFTÇİ Y., SÜRÜCÜ G.
Yoğun Madde Fiziği-İzmir Toplantısı, İzmir Yüksek Teknoloji Enstitüsü, İzmir, Turkey, 05 April 2014
- LIX. Structural, Electronic, Mechanical, and Lattice Dynamical Properties of Pd3X**
SÜRÜCÜ G., ÇOLAKOĞLU K., DELİGÖZ E.
30. Tfd. International Physics Congress, İstanbul, Turkey, 2 - 05 December 2013
- LX. V2AsC bileşiminin Yapısal, Elektronik, Elastik ve Titreşimsel Özellikleri Üzerine Ab-initio Hesaplamaları**
ALTAY M., ÇOLAKOĞLU K., SÜRÜCÜ G., DELİGÖZ E.
30. Tfd. International Physics Congress, İstanbul, Turkey, 2 - 05 December 2013
- LXI. Structural, electronic and optical properties of hexagonal Si1-xGexC alloys**
SÜRÜCÜ G., ÇOLAKOĞLU K., DELİGÖZ E., ÇİFTÇİ Y.
NanoTR-9, Erzurum, Turkey, 24 - 28 June 2013
- LXII. First-principles study of structural, elastic and electronic properties of orthorhombic PrLuO3 perovskite**
SÜRÜCÜ G., ÇOLAKOĞLU K., DELİGÖZ E., ÖZİŞİK H.
2nd International Student Workshop on Condensed Matter and Materials Physics 2011, Antalya, Turkey, 27 - 31 December 2011
- LXIII. K3As7 bileşiminin yapısal ve elastik özellikleri**
ÖZİŞİK H., ÇOLAKOĞLU K., ÇİFTÇİ Y., DELİGÖZ E., SÜRÜCÜ G., ALP İ.
18. Yoğun Madde Fiziği - Ankara Toplantısı, Ankara, Turkey, 25 November 2011
- LXIV. Lattice Dynamical and Thermodynamical Properties of Al2Mg and Al2Ca Compounds**
DELİGÖZ E., ÇOLAKOĞLU K., ÖZİŞİK H., SÜRÜCÜ G., ÇİFTÇİ Y.
28.Tfd. International Physics Congress, Muğla, Turkey, 6 - 09 September 2011
- LXV. Na3As7 ve Na3As11 Bileşiklerinin Yapısal, Elektronik ve Elastik Özellikleri**
ÖZİŞİK H., ÇOLAKOĞLU K., ÇİFTÇİ Y., DELİGÖZ E., SÜRÜCÜ G., ALP İ.
28.Tfd. International Physics Congress, Muğla, Turkey, 6 - 09 September 2011
- LXVI. The Optical Properties of LaB12 Compound: A First-Principles Study**
KÖRÖZLÜ N., ÇOLAKOĞLU K., DELİGÖZ E., SÜRÜCÜ G.
28.Tfd. International Physics Congress, Muğla, Turkey, 6 - 09 September 2011
- LXVII. Ab-initio Yöntemlerle InTe-Bileşiminin İncelenmesi**
ALP İ., ÇOLAKOĞLU K., ÖZİŞİK H., ÖZİŞİK H., SÜRÜCÜ G.
17. Yoğun Madde Fiziği - Ankara Toplantısı, Ankara, Turkey, 05 November 2010
- LXVIII. Ab Initio Study on The Lattice Dynamical Properties of Zintl LiCd Alloy**
SÜRÜCÜ G., ÇOLAKOĞLU K., SEYİS S., DELİGÖZ E.
27. International Physics Congress, İstanbul, Turkey, 14 - 17 September 2010
- LXIX. Lattice Dynamical Properties of Zintl LiZn Alloy**
SÜRÜCÜ G., ÇOLAKOĞLU K., UZUNALIOĞLU D., DELİGÖZ E.
27. International Physics Congress, İstanbul, Turkey, 14 - 17 September 2010
- LXX. Ab initio study on the thermo-elastic properties of PtSb alloy**
SÜRÜCÜ G., ÇOLAKOĞLU K., DELİGÖZ E., KÖRÖZLÜ N.
27. International Physics Congress, 14 - 17 September 2010
- LXXI. Ab-initio investigation of the structural and elastic properties of Gd5Sb3, Gd4Sb3 binary compounds**
KÖRÖZLÜ N., ÇOLAKOĞLU K., DELİGÖZ E., SÜRÜCÜ G.
27. International Physics Congress, İstanbul, Turkey, 14 - 17 September 2010
- LXXII. The structural, elastic, electronic and optical properties of LaPdBi compound**
KÖRÖZLÜ N., ÇOLAKOĞLU K., DELİGÖZ E., SÜRÜCÜ G.
26.Tfd. International Physics Congress, 24 - 27 September 2009
- LXXIII. The Investigation Some The Structural, Electronic, Elastic, Thermodynamics, and Vibrational Properties of Rh3X(X=Ti, V, Hf, Zr, Nb) By AB Initio Method**

SÜRÜCÜ G.

International Student Workshop on Condensed Matter and Materials Physics, 27 - 31 December 2009

- LXXIV. **NiSb bileşiğinin Yapısal, Elektronik, Elastik ve Titreşimsel Özellikleri üzerinde ab initio Hesaplamaları**
SÜRÜCÜ G., KEMAL Ç., DELİGÖZ E., ÖZİŞİK H.
16. Yoğun Madde Fiziği – Ankara Toplantısı, Gazi Üniversitesi, Ankara, Turkey, 06 November 2009
- LXXV. **The lattice dynamical and thermo-elastic properties of TlBi compound**
SÜRÜCÜ G., ÇOLAKOĞLU K., DELİGÖZ E., KÖRÖZLÜ N., ÖZİŞİK H.
26.Tfd. International Physics Congress, 24 - 27 September 2009
- LXXVI. **Ab-Initio Total Energy Calculations on the AgNd Compound**
SÜRÜCÜ G., ÇOLAKOĞLU K., DELİGÖZ E., ÇİFTÇİ Y.
25. International Physics Congress, Muğla, Turkey, 25 - 29 August 2008
- LXXVII. **TaN Bileşiğinin Yapısal, Elektronik, Elastik ve Titreşimsel Özellikleri üzerine ab initio Hesaplamaları**
SÜRÜCÜ G., KEMAL Ç., DELİGÖZ E., ÖZİŞİK H.
15. YoğunMaddeFiziği – Ankara Toplantısı, Ankara, Turkey, 07 November 2008
- LXXVIII. **KAs bileşiğinin Yapısal, Elektronik, Elastik ve Titreşimsel Özellikleri üzerinde ab initio Hesaplamaları**
ÖZİŞİK H., KEMAL Ç., DELİGÖZ E., SÜRÜCÜ G.
15. Yoğun Madde Fiziği – Ankara Toplantısı, Bilkent Üniversitesi, Ankara, Turkey, 07 November 2008
- LXXIX. **The First-Principles Calculations on the NaP Compound**
ÖZİŞİK H., ÇOLAKOĞLU K., DELİGÖZ E., SÜRÜCÜ G., KÖRÖZLÜ N., ÇİFTÇİ Y.
25. International Physics Congress, 25 - 29 August 2008
- LXXX. **YP bileşiğininYapısal, Elektronik, Elastik ve Titreşimsel Özellikleri Üzerinde ab initio Hesaplamaları**
SÜRÜCÜ G., KEMAL Ç., DELİGÖZ E., ÇİFTÇİ Y., ÖZİŞİK H.
14. YoğunMaddeFiziği – Ankara Toplantısı, Hacettepe Üniversitesi, Ankara, Turkey, 02 November 2007
- LXXXI. **Kübik Ruthenium Nitride (RuN) bileşiğinin Yapısal, elektronik ve Elastik Özelliklerinin ab initio yöntemle İncelenmesi**
ÖZİŞİK H., KEMAL Ç., DELİGÖZ E., ÇİFTÇİ Y., SÜRÜCÜ G.
14. YoğunMaddeFiziği – Ankara Toplantısı, Ankara, Turkey, 02 November 2007 - 02 November 2017

Supported Projects

Sürücü Ö., Özen Y., Gencer A., Sürücü G., Kara İ., Terlemezoğlu M., Parlak M., Terlemezoğlu Bilmiş M., TUBİTAK Project, Cu-Sb-Chalcogen (Cu-Sb-Se) Thin Film Hetero-Joint Fabrication And Photovoltaic Applications, 2021 - 2023

Sürücü G., Özel F., Gencer A., TÜBİTAK - AB COST Project, Modelling of Seleno-Circuit Structures with Density Functional Theory and Investigation of Hydrogen Production Performance, 2021 - 2023

Sürücü G., Project Supported by Higher Education Institutions, Fabrication of CdTe Thin Film Solar Cells and Improvement of Cell Performance, 2016 - 2018

Özçelik S., Sürücü G., TÜBİTAK International Bilateral Joint Cooperation Program Project, Investigation of Composition Effect on Structural Optical and Electrical Properties of Cu₂ZnSn S_xSe_{1-x} 4 Thin Films for Optoelectronic Devices, 2016 - 2018

Sürücü G., Project Supported by Higher Education Institutions, The First-Principles calculations of structural, electronic, and lattice dynamical properties of W₂Si_X (X= B, C, and N) Compounds, 2016 - 2016

Sürücü G., Project Supported by Higher Education Institutions, A₂B₂O₆ A=La,Ce B=Ho, Er, Tm, Yb, Lu İnterlantanit Çift Perovskit Oksitlerinin İlk İlkeler Yöntemiyle İncelenmesi, 2015 - 2016

Sürücü G., TUBİTAK Project, Bor Katkılı Yüksek Performanslı İnce film Güneş hücre prototip üretimi, 2015 - 2016

Sürücü G., Çolakoğlu K., Project Supported by Higher Education Institutions, Investigation of structural, mechanical, electronic and optical properties of some Metal Oxides/ Nitrate Nano-tubes with Ab-initio methods , 2008 - 2009

Activities in Scientific Journals

FRONTIERS IN CHEMISTRY, Editor, 2022 - Continues

FRONTIERS IN MATERIALS, Editor, 2020 - Continues

FRONTIERS IN PHYSICS, Editor, 2020 - Continues

Aksaray University Journal of Science and Engineering, Committee Member, 2018 - Continues

Tasks In Event Organizations

Sürücü G., INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS SCIENCE ENGINEERING AND HIGH TECHDEVICES APPLICATIONS EXHIBITION ICMATSE-2022, Scientific Congress, Ankara, Turkey, Ekim 2022

Sürücü G., INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS SCIENCE ENGINEERING AND HIGH TECHDEVICES APPLICATIONS EXHIBITION ICMATSE-2020, Scientific Congress, Ankara, Turkey, Ekim 2020

Sürücü G., INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS WITAM-2018, Scientific Congress, Kırşehir, Turkey, Eylül 2018

Sürücü G., INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS WITAM-2016, Scientific Congress, Kırşehir, Turkey, Ekim 2016

Metrics

Publication: 169

Citation (WoS): 1021

Citation (Scopus): 1060

H-Index (WoS): 20

H-Index (Scopus): 20