

Assoc. Prof. GÖKHAN SÜRÜCÜ

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International Researcher IDs

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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, Catalysis and Catalytic Processes, Solar energy, Hydrogen Technologies and Fuel Cells, Material science and engineering, Nanomaterials, Surfaces, Interfaces, Thin Films and Nanosystems, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures

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

Courses

ENERJİ SİSTEMLERİNDE SİMÜLASYON, Postgraduate, 2023 - 2024
FİZİK II, Undergraduate, 2023 - 2024
ESM-466 ENERJİTİK MALZEMELER, Undergraduate, 2023 - 2024
ENERJİ SİSTEMLERİNİN PROJELENDİRİLMESİ, Undergraduate, 2022 - 2023
ENERGETIC MATERIALS, Undergraduate, 2023 - 2024
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., ÇEVRE DOSTU CuSbSe₂ İNCE FİLM GÜNEŞ HÜCRELERİ: SÜRDÜRÜLEBİLİR ENERJİ İÇİN ZEHİRLİ OLMAYAN PENCERE KATMANLARININ KULLANIMI, Postgraduate, E.BAL(Student), 2024
Sürücü G., WSi₂N₄ ve WSiGeN₄ iki boyutlu malzemelerin fotokatalitik hidrojen üretim performansının incelenmesi, Postgraduate, F.HİMMET(Student), 2024
Sürücü G., Çiftçi Y., Chevrel faz bileşiklerinin hidrojen üretim potansiyellerinin yoğunluk fonksiyoneli teorisi ile incelenmesi, Doctorate, T.SEVİNÇ(Student), 2023
Sürücü G., Toffoli H., A density functional theory investigation for solid state hydrogen storage materials, Doctorate, A.GENCER(Student), 2019
Sürücü G., Deligöz E., 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

- Exploring Temperature-Dependent bandgap and Urbach energies in CdTe thin films for optoelectronic applications**
Surucu O., Sürücü G., Gasanly N., Parlak M., Isik M.
MATERIALS LETTERS, vol.373, 2024 (SCI-Expanded)
- Innovative 2D materials for efficient photocatalysis: A comparative study for WSi₂N₄, WGe₂N₄, and their janus counterpart WSiGeN₄ monolayers**
Himmet F., Sürücü G., Lisesivdin S. B., Surucu O., Altuntas G., Bostan B., Gencer A.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.78, pp.761-772, 2024 (SCI-Expanded)

- III. **An accurate DFT insights into optoelectronic, magnetic, thermodynamic and thermoelectric characteristics of monoclinic spiroffite $\text{Co}_2\text{Te}_3\text{O}_8$**
Chebbab I., Chiker F., Baki N., Khachai I., Miloua R., Khenata R., Sürücü G.
OPTICAL AND QUANTUM ELECTRONICS, vol.56, no.8, 2024 (SCI-Expanded)
- IV. **Establishing the NiMo_6Se_8 Chevrel Phase as a Promising Material Using DFT**
Sürücü G., Surucu O., Usanmaz D., Özel F., Gencer A.
ADVANCED THEORY AND SIMULATIONS, vol.7, no.7, 2024 (SCI-Expanded)
- V. **Performance analysis of CuSbSe_2 thin-film solar cells with Cd-free window layers**
Sürücü G., Bal E., Gencer A., Parlak M., Surucu O.
MATERIALS LETTERS, vol.363, 2024 (SCI-Expanded)
- VI. **Is Rb_2PtX_6 (X = Cl, Br, and I) a promising Pb-free vacancy-ordered double perovskites for photoelectrochemical water splitting applications?**
Hemidi D., Seddik T., Benmessabih T., Batouche M., Ouerghui W., Abdallah H. B., Surucu G., Ahmad S.
Applied Physics A: Materials Science and Processing, vol.129, no.11, 2023 (SCI-Expanded)
- VII. **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, vol.6, no.11, 2023 (SCI-Expanded)
- VIII. **Photoantimicrobial and Photocatalytic Hydrogen Evolution Activities of Seleno-Chevrel Phases**
Kuru T., Sarilmaz 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)
- IX. **DFT Insights into Noble Gold-Based Compound Li_5AuP_2 : Effect of Pressure on Physical Properties**
Sürücü G., Gencer A., Surucu O., Ali M. A.
ACS Omega, vol.8, 2023 (SCI-Expanded)
- X. **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)
- XI. **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)
- XII. **Complex nodal structure phonons formed by open and closed nodal lines in CoAsS and Na_2CuP solids**
Ding G., Sun T., Sürücü G., Surucu O., Gencer A., Wang X.
Physical Chemistry Chemical Physics, vol.24, no.28, pp.17210-17216, 2022 (SCI-Expanded)
- XIII. **The spin effects on electronic, optical and mechanical properties of new ferromagnetic chalcopyrite: YMnS_2**
Yıldız B., Erkisi A., Surucu G.
MATERIALS CHEMISTRY AND PHYSICS, vol.284, 2022 (SCI-Expanded)
- XIV. **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)
- XV. **Exploration of carbon additives to the synthesis of $\text{Cu}_2\text{Mo}_6\text{S}_8$ 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)
- XVI. **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)
- XVII. **Experimental and theoretical investigation of the mechanical characteristics of sillenite compound: Bi₁₂GeO₂₀**
Sürücü G., Isik M., Gencer A., Hasanlı N.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.882, 2021 (SCI-Expanded)
- XVIII. **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)
- XIX. **Evaluation of mechanical properties of Bi₁₂SiO₂₀ sillenite using first principles and nanoindentation**
Isik M., Sürücü G., Gencer A., Hasanlı N.
PHILOSOPHICAL MAGAZINE, vol.101, no.20, pp.2200-2215, 2021 (SCI-Expanded)
- XX. **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)
- XXI. **First principles study of Bi₁₂GeO₂₀: Electronic, optical and thermodynamic characterizations**
Isik M., Sürücü G., Gencer A., Hasanlı N.
MATERIALS TODAY COMMUNICATIONS, vol.27, 2021 (SCI-Expanded)
- XXII. **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)
- XXIII. **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)
- XXIV. **The investigation of electronic nature and mechanical properties under spin effects for new half-metallic ferromagnetic chalcogenides Ag₃CrX₄ (X = S, Se, and Te)**
Erkisi A., Yıldız B., Wang X., Isik M., Ozcan Y., Sürücü G.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.519, 2021 (SCI-Expanded)
- XXV. **Editorial: Computational Modeling of Spintronic Materials**
Wang X., Cheng Z., Sürücü G.
FRONTIERS IN MATERIALS, vol.7, 2021 (SCI-Expanded)
- XXVI. **The investigation of electronic, anisotropic elastic and lattice dynamical properties of MAB phase nanolaminated ternary borides: M₂AIB₂ (M = Mn, Fe and Co) under spin effects**
Sürücü G., Yıldız B., Erkisi A., Wang X., Surucu O.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.838, 2020 (SCI-Expanded)
- XXVII. **First-principles studies of Tin+1SiN(n) (n=1, 2, 3) MAX phase**
Sürücü G., Gullu H. H., Candan A., Yıldız B., Erkisi A.
PHILOSOPHICAL MAGAZINE, vol.100, no.17, pp.2183-2204, 2020 (SCI-Expanded)
- XXVIII. **Anisotropic mechanical properties of Tl₄Ag₁₈Te₁₁ compound with low thermal conductivity**
Gencer A., Surucu O., Sürücü G., Deligoz E.
JOURNAL OF SOLID STATE CHEMISTRY, vol.289, 2020 (SCI-Expanded)
- XXIX. **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)
- XXX. **Investigation of structural, electronic, magnetic and lattice dynamical properties for XCoBi (X: 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)

- XXXI. **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)
- XXXII. **Coexistence of parabolic and linear band crossings and electron-doped spin-gapless properties in rhombohedral type YbB03**
Yang T., Cheng Z., Sürücü G., Wang X.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.823, 2020 (SCI-Expanded)
- XXXIII. **Lattice dynamical and thermo-elastic properties of M2AlB (M = V, Nb, Ta) MAX phase borides**
Sürücü G., Gencer A., Wang X., Surucu O.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.819, 2020 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **CaXH₃ (X = 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)
- XXXVI. **Properties of BaYO₃ perovskite and hydrogen storage properties of BaYO₃H_x**
Gencer A., Surucu G.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.17, pp.10507-10515, 2020 (SCI-Expanded)
- XXXVII. **Enhancement of hydrogen storage properties of Ca₃CH antiperovskite compound with hydrogen doping**
Gencer A., Sürücü G.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.1, pp.567-573, 2020 (SCI-Expanded)
- XXXVIII. **Electronic, mechanical and lattice dynamical properties of YXB₄ (X = Cr, Mn, Fe, and Co) compounds**
Candan A., Surucu G., Gencer A.
PHYSICA SCRIPTA, vol.94, no.12, 2019 (SCI-Expanded)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **First principles study on new half-metallic ferromagnetic ternary zinc-based sulfide and telluride (Zn₃VS₄ and Zn₃VTe₄)**
Erkisi A., Yıldız B., Demir K., Sürücü G.
MATERIALS RESEARCH EXPRESS, vol.6, no.7, 2019 (SCI-Expanded)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **Electronic and lattice dynamical properties of Ti₂SiB MAX phase**
Gencer A., Surucu G.
MATERIALS RESEARCH EXPRESS, vol.5, no.7, 2018 (SCI-Expanded)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **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)
- LIV. **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)
- LV. **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)
- LVI. **Investigation of structural, electronic and anisotropic elastic properties of Ru-doped WB₂ compound by increased valence electron concentration**
Sürücü G., Kaderoğlu Ç., Deligoz E., Özışık H.
MATERIALS CHEMISTRY AND PHYSICS, vol.189, pp.90-95, 2017 (SCI-Expanded)
- LVII. **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)

- LVIII. 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)
- LIX. 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)
- LX. First-Principles Study on the MAX Phases Tin+1Ga_nN (n=1,2, and 3)**
Sürücü G., Colakoglu K., Deligöz E., Körözlü N.
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.4256-4264, 2016 (SCI-Expanded)
- LXI. Anisotropic elastic and vibrational properties of Ru₂B₃ and Os₂B₃: a first-principles investigation**
Ozsisik H., Deligoz E., Surucu G., Ozisik H. B.
MATERIALS RESEARCH EXPRESS, vol.3, no.7, 2016 (SCI-Expanded)
- LXII. First-principles investigation of LaGaO₃ and LaInO₃ lanthanum perovskite oxides**
Erkisi A., Gökoğlu G., Sürücü G., Ellialtioglu R., Yıldırım E. K.
PHILOSOPHICAL MAGAZINE, vol.96, no.19, pp.2040-2058, 2016 (SCI-Expanded)
- LXIII. 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)
- LXIV. 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)
- LXV. 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)
- LXVI. Structural and mechanical stability of rare-earth diborides**
Özışık H., Deligöz E., Colakoglu K., Surucu G.
CHINESE PHYSICS B, vol.22, no.4, 2013 (SCI-Expanded)
- LXVII. The electronic and optical properties of MB₁₂ (M = Zr, Hf, Y, Lu) dodecaboride compounds**
Koroğlu N., Surucu G.
PHYSICA SCRIPTA, vol.87, no.1, 2013 (SCI-Expanded)
- LXVIII. 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)
- LXIX. Electronic, elastic and optical properties on the Zn_{1-x}Mg_xSe mixed alloys**
Surucu G., Colakoglu K., Deligoz E., Ciftci Y., Koroğlu N.
JOURNAL OF MATERIALS SCIENCE, vol.46, no.4, pp.1007-1014, 2011 (SCI-Expanded)
- LXX. 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)
- LXXI. Structural and lattice dynamical properties of Zintl NaIn and NaTl compounds**
Ozsisik H. B., Colakoglu K., Surucu G., Ozisik H.
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Metrics

Publication: 176

Citation (WoS): 1507

Citation (Scopus): 1549

H-Index (WoS): 23

H-Index (Scopus): 23