

Prof. Fethi Soyalp

Personal Information

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2002 - 2006

Post Graduate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Yoğun Madde Fiziği, Turkey 1999 - 2002

Under Graduate, Van Yüzüncü Yıl University, Fen Edebiyat Fakültesi, Fizik Bölümü, Turkey 1994 - 1998

Dissertations

Post Graduate, Fizik öğretmen adaylarının kuantum mekaniği ile ilgili kavramsal anlama düzeylerinin araştırılması, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Ofmae Bölümü, 2012

Doctorate, Yoğunluk fonksiyon teorisi ile bazı bileşiklerin elektronik yapılarının ve titreşim özelliklerinin teorik olarak incelenmesi, Gazi University, Fizik Bölümü, 2006

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Equations of State, Phase Equilibria, and Phase Transitions, Lattice Dynamics, Mechanical and Acoustic Properties of Condensed Matter, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electronic structure of bulk material, Electronic structure of bulk material, Natural Sciences

Academic Titles / Tasks

Professor, Van Yüzüncü Yıl University, Eğitim Fakültesi, Ofmae Bölümü, 2014 - Continues

Associate Professor, Van Yüzüncü Yıl University, Eğitim Fakültesi, Ofmae Bölümü, 2010 - 2014

Assistant Professor, Van Yüzüncü Yıl University, Eğitim Fakültesi, Ofmae Bölümü, 2008 - 2010

Research Assistant PhD, Van Yüzüncü Yıl University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2007 - 2008

Research Assistant, Gazi University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2003 - 2007

Research Assistant, Van Yüzüncü Yıl University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2002 - 2003

Research Assistant, Van Yüzüncü Yıl University, Fen Edebiyat Fakültesi, Fizik Bölümü, 1999 - 2001

Professional Experience

Rectorate Commissioner, Van Yüzüncü Yıl University, 2015 - 2016

Ethics Committee Member, Van Yüzüncü Yıl University, Sosyal Ve Beşeri Bilimler, 2015 - 2016

Dean, Van Yüzüncü Yıl University, Denizcilik Fakültesi, 2015 - 2016

Vice Dean, Van Yüzüncü Yıl University, Eğitim Fakültesi, 2012 - 2015

Advising Theses

Soyalp F., Yoğunluk fonksiyoneli teorisi ile CaX (X=O, S, Se ve Te) bileşiklerinin yapısal, elektronik, elastik, dinamik ve

termodinamik özelliklerinin teorik olarak araştırılması, Post Graduate, Y.Soyvural(Student), 2017

Soyalp F., Yoğunluk fonksiyoneli teorisi ile abf3 bileşiklerinin yapısal, elektronik, elastik, titreşim ve termodinamik özelliklerinin teorik olarak incelenmesi, Post Graduate, N.Aydın(Student), 2014

Soyalp F., YOĞUNLUK FONKSİYONELİ TEORİSİ İLE PtGa2 BİLEŞİĞİNİN YAPISAL, ELEKTRONİK, ELASTİK VE TİTREŞİM ÖZELLİKLERİNİN TEORİK OLARAK İNCELENMESİ, Post Graduate, Ö.Şahin(Student), 2014

Jury Memberships

Doctorate, Ömer Faruk Özdemir (Doktora Tez Jürisi), Yüzüncü Yıl Üniversitesi, February, 2016

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Computational investigations on band structure and electronic features of chromium-based carbides and nitride Cr3PX (X = C and N) through the FP-APW+LO approach**
SEDDIK T., Uğur G., Soyalp F., KHENATA R., PRAKASH D., KITYK I., KHAN S. A. , BOUHEMADOU A., BIN-OMRAN S., RAID., et al.
Superlattices and Microstructures, vol.109, pp.1-12, 2017 (Journal Indexed in SCI)
- **Electronic structure, phase stability, vibrational and thermodynamic properties of the ternary Nowotny-Juza materials LiMgSb and LiZnSb**
Guendouz D., Charifi Z., Baaziz H., Soyalp F., Uğur G., Uğur S.
Physica B: Condensed Matter, vol.519, pp.39-52, 2017 (Journal Indexed in SCI)
- **Computational investigations on band structure and optical properties of the BeSexTe1-xalloys through the FP-LAPW approach**
HADJI K., ABDICHE A., Soyalp F., OMRAN S. B. , KHENATA R.
Optik, vol.130, pp.1080-1091, 2017 (Journal Indexed in SCI)
- **First-principles study of structural, electronic, and optical properties of cubic InAsxNyP1-x-y triangular quaternary alloys**
Hattabi I., Abdiche A., Soyalp F., Moussa R., Riane R., Hadji K., Bin-Omran S., Khenata R.
CHINESE PHYSICS B, vol.26, 2017 (Journal Indexed in SCI)
- **Thermodynamics and P-T phase diagram of lanthanum monosulfide**
PATEL A., BHATT N., THAKORE B., Soyalp F., VYAS P.
High Temperatures - High Pressures, vol.46, pp.189-209, 2017 (Journal Indexed in SCI)
- **Investigation of electronic structure and thermodynamic properties of quaternary Li-containing chalcogenide diamond-like semiconductors**
Berarma K., Charifi Z., Soyalp F., Baaziz H., Uğur G., Uğur S.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.31, 2016 (Journal Indexed in SCI)
- **Optoelectronic and thermoelectric properties of Zintl YLi(3)A(2) (A = Sb, Bi) compounds through modified Becke-Johnson potential**
SEDDIK T., Uğur G., KHENATA R., Uğur S., Soyalp F., MURTAZA G., RAID. P. , BOUHEMADOU A., BIN OMRAN S.
CHINESE PHYSICS B, vol.25, 2016 (Journal Indexed in SCI)
- **First-Principle Study of the Structural, Electronic, and Optical Properties of Cubic InNxP1-x Ternary Alloys under Hydrostatic Pressure**
HATTABII., ABDICHE A., MOUSSA R., RIANE R., HADJI K., Soyalp F., VARSHNEY D., SYROTYUK S., KHENATA R.
Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, vol.71, pp.783-796, 2016 (Journal Indexed in SCI)
- **First principles study of hydrogen storage material NaBH4 and LiAlH4 compounds: electronic structure and optical properties**
GHELLAB T., CHARIFI Z., BAAZIZ H., Uğur S., Uğur G., Soyalp F.
PHYSICA SCRIPTA, vol.91, 2016 (Journal Indexed in SCI)
- **Ab Initio Investigation of the Structural, Electronic and Optical Properties of Cubic GaAs1-x P (x) Ternary**

Alloys Under Hydrostatic Pressure

MOUSSA R., ABDICHE A., ABBAR B., GUEMOU M., RIANE R., MURTAZA G., BIN OMRAN S., KHENATA R., Soyalp F.

JOURNAL OF ELECTRONIC MATERIALS, vol.44, pp.4684-4699, 2015 (Journal Indexed in SCI)

- **Theoretical investigations of $\text{Co}_2\text{Mn}_{1-x}\text{Cr}_x\text{Sn}$ and $\text{Co}_2\text{MnSn}_{1-y}\text{Si}_y$ pseudo-ternary alloys: First principles calculations**
CHARIFI Z., HAMAD B., BAAZIZ H., Soyalp F.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.393, pp.139-145, 2015 (Journal Indexed in SCI)
- **Studying structural, electronic and optical properties of zinc-blende $\text{Ga}_{1-x}\text{Al}_x\text{P}$ at normal and under pressure by means of first principle**
MOUSSA R., ABDICHE A., KHENATA R., RAID. P. , Ahmed W. K. , Bin Omran S., MURTAZA G., Soyalp F.
MATERIALS RESEARCH EXPRESS, vol.2, 2015 (Journal Indexed in SCI)
- **Prediction study of the mechanical and thermodynamic properties of the RBRh_3 (R = Sm, Eu, Gd, and Tb) compounds**
MEKKAOUF F., LITIMEIN F., KHENATA R., MERABIHA O., BOUHEMADOU A., VARSHNEY D., Soyalp F., Uğur S., BIN-OMRAN S., RACHED D.
International Journal of Thermophysics, vol.34, pp.2102-2118, 2013 (Journal Indexed in SCI)
- **Elastic and phonon properties of FeSi and CoSi in the B2 structure**
Acun A. D. , Soyalp F.
PHILOSOPHICAL MAGAZINE, vol.92, pp.635-646, 2012 (Journal Indexed in SCI)
- **First-principles investigation of structural, electronic, optical and dynamical properties in CsAu**
Erdinc B., Soyalp F., Akkuş H.
Central European Journal of Physics, vol.9, pp.1315-1320, 2011 (Journal Indexed in SCI)
- **Ground state and phonon spectrum of NiSi₂**
Soyalp F., UĞUR G.
PHILOSOPHICAL MAGAZINE, vol.91, pp.468-476, 2011 (Journal Indexed in SCI)
- **Phonon and elastic properties of AlSc and MgSc from first-principles calculations**
UĞUR Ş., ARIKAN N., Soyalp F., Ugur G.
COMPUTATIONAL MATERIALS SCIENCE, vol.48, pp.866-870, 2010 (Journal Indexed in SCI)
- **The first-principles study of LaSe and LaTe in B1 and B2 structures**
Soyalp F.
Computational Materials Science, vol.44, pp.1371-1378, 2009 (Journal Indexed in SCI)
- **Electronic structure calculations of rare-earth intermetallic compound YAg using ab initio methods**
Uğur Ş., Uğur G., Soyalp F., Ellialtıoğlu R.
Journal of Rare Earths, vol.27, pp.664-666, 2009 (Journal Indexed in SCI Expanded)
- **STRUCTURAL, ELECTRONIC AND PHONON PROPERTIES OF LaX COMPOUNDS (X = P, As)**
Ugur G., UĞUR Ş., Erkisi A., Soyalp F.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.22, pp.5027-5033, 2008 (Journal Indexed in SCI)
- **First-principles investigation of structural, electronic and dynamical properties in ScAuSn alloy**
Soyalp F., Uğur Ş., Uğur G.
Computational Materials Science, vol.41, pp.134-137, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Ortaöğretim Öğrencilerinin Proje Yarışması ve Okul Bağlamında Kullandıkları Öğrenme Yaklaşımları: Epistemolojik Değişkenlik**
Yerdelen Damar S., Soyalp F.
Yüzüncü Yıl Üniversitesi Eğitim Fakültesi Dergisi, vol.8, pp.593-630, 2016 (National Refereed University Journal)
- **Ab Initio Calculation of Physical Properties of Sodium Chloride**
Doğan E., Seçuk M. N. , Erdinç B., Soyalp F., Akkuş H.
MATERIALS FOCUS, vol.2, pp.346-353, 2013 (Refereed Journals of Other Institutions)
- **Ab Initio Calculation of Physical Properties of Sodium Chloride**
Doğan E., Seçuk M. N. , Erdinç B., Soyalp F., Akkuş H.

MATERIALS FOCUS, vol.2, pp.346-353, 2013 (Refereed Journals of Other Institutions)

- **Ab Initio Calculation of Physical Properties of Sodium Chloride**

Doğan E., Seçuk M. N. , ERDINC B., Soyalp F., Akkuş H.

MATERIALS FOCUS, vol.2, pp.346-353, 2013 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- **The First-Principles Study of CsCaCl₃**

Soyalp F., Kılıç M., Bodur E.

Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2017, pp.625

- **Structural, Elastic, Electronic and Lattice Dynamical Properties of LiCdBi**

Soyalp F., Bodur E.

Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2017, pp.643

- **First Principle Calculation on Structural and Lattice Dynamical Properties Of LiCdSb**

Soyalp F., UGUR G.

Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2017, pp.610

- **Ab-Initio investigation of the Structural, Elastic, Electronic, Phonon and Thermodynamic properties of LiCdAs**

Soyalp F., UGUR G.

Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2017, pp.283

- **Elastic, Thermodynamic, and Phonon properties of TcNb, TcTa, and TcV: First principles study**

Akbudak S., Candan A., Soyalp F., Ünver H., Uğur G., Uğur Ş.

3th International Conference on Researches in Science and Technology (ICRST), Lisbon, Portugal, 25 - 26 May 2017, pp.22

- **ELECTRONIC, ELASTIC, DYNAMIC AND THERMODYNAMIC PROPERTIES OF THE LIBEAS AND LIBESB COMPOUNDS IN α , β AND γ PHASES: FIRST PRINCIPLES CALCULATIONS**

Soyalp F., UGUR S.

INTERNATIONAL JOURNAL OF ADVANCES ON AUTOMOTIVE AND TECHNOLOGY, İstanbul, Turkey, 29 - 31 March 2017, pp.322

- **AB-INITIO INVESTIGATION OF THE STRUCTURAL, ELASTIC, ELECTRONIC, PHONON AND THERMODYNAMIC PROPERTIES OF LIBEBI IN α PHASE**

Soyalp F., UGUR G., UGUR S.

3th International Conference on Researches in Science and Technology (ICRST), İstanbul, Turkey, 29 - 31 March 2017, pp.90

- **THEORETICAL PREDICTION OF THE GROUNDSTATE PROPERTIES OF NOWOTNY–JUZA LiCDN AND LiCDP COMPOUNDS**

Soyalp F., Uğur G.

INTERNATIONAL JOURNAL OF ADVANCES ON AUTOMOTIVE AND TECHNOLOGY, İstanbul, Turkey, 29 - 31 March 2017, pp.275

Invited Congress and Symposium Activities

Structural, Elastic, Electronic and Lattice Dynamical Properties of LiCdBi, Attendee, Muğla, Turkey, 2017

First Principle Calculation on Structural and Lattice Dynamical Properties Of LiCdSb, Attendee, Muğla, Turkey, 2017

Ab-Initio investigation of the Structural, Elastic, Electronic, Phonon and Thermodynamic properties of LiCdAs, Attendee, Turkey, 2017

Elastic, Thermodynamic, and Phonon properties of TcNb, TcTa, and TcV: First principles study, Attendee, Lisboa, Portugal, 2017

AB-INITIO INVESTIGATION OF THE STRUCTURAL, ELASTIC, ELECTRONIC, PHONON AND THERMODYNAMIC PROPERTIES OF LIBEBI IN α PHASE, Attendee, İstanbul, Turkey, 2017

THEORETICAL PREDICTION OF THE GROUNDSTATE PROPERTIES OF NOWOTNY–JUZA LiCDN AND LiCDP COMPOUNDS, Attendee, İstanbul, Turkey, 2017

ELECTRONIC, ELASTIC, DYNAMIC AND THERMODYNAMIC PROPERTIES OF THE LIBEAS AND LIBESB COMPOUNDS IN α , β AND γ PHASES: FIRST PRINCIPLES CALCULATIONS, Attendee, İstanbul, Turkey, 2017
First-principles Study of Electronic and Dynamical Properties of The CaTe in B1(NaCl) Structur, Attendee, Turkey, 2016
FIRST PRINCIPLE CALCULATION ON STRUCTURAL AND LATTICE DYNAMICAL PROPERTIES OF LiMgSb, Attendee, Muğla, Turkey, 2016
ab-initio structural, electronic, elastic, phonon and thermodynamical properties for B1(NaCl) CaO, Attendee, Muğla, Turkey, 2016
theoretical prediction of the nowotny-juzza liben and libep compounds, Attendee, Turkey, 2016
The First-principles Study Of CaS and CaSe in B1 And B2 Structures, Attendee, Erzurum, Turkey, 2016
Structural, Elastic, Electronic and Lattice Dynamical Properties of LiZnAs, Attendee, Erzurum, Turkey, 2016
Density Functional Theory Study of Structural, Elastic, Electronic, and Phonon Properties of LiZnP, Attendee, Turkey, 2016
Theoretical Prediction of the Ground-State Properties of Nowotny–Juza LiMgN and LiZnN Compounds, Attendee, Erzurum, Turkey, 2016
The first International workshop on the thermodynamics of metallic alloys, Attendee, Bâtnah, Algeria, 2015

Citations

Total Citations (WOS):66

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