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Eğitim Bilgileri

- I. Doktora, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Türkiye 1996 - 2000
- II. Yüksek Lisans, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Türkiye 1993 - 1996
- III. Lisans, Gazi Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Pr., Türkiye 1989 - 1993

Yabancı Diller

- I. İngilizce, B2 Orta Üstü

Araştırma Alanları

Fizik, Temel Bilimler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

- I. Prof. Dr., Gazi Üniversitesi, Fen Fakültesi, Fizik, 2014 - Devam Ediyor
- II. Yrd. Doç. Dr., Gazi Üniversitesi, Fen Fakültesi, Fizik, 2003 - 2008
- III. Araştırma Görevlisi, Gazi Üniversitesi, Fen Fakültesi, Fizik, 1994 - 2003

Yönetilen Tezler

- I. ÇİFTÇİ Y., Bazı hafif elementlerle dekore edilmiş iki boyutlu karbon allotroplarının üzerine hidrojen depolama özelliklerinin ab-initio yöntemlerle incelenmesi, Doktora, İ.ALP(Öğrenci), 2019
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- I. Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama-Yardımcı Doçentlik, University of Engineering and Technology, Eylül, 2022

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **Understanding the pressure effect on the physical properties of half-Heusler semiconductor LiCaX (X = As, Sb, N) compounds from Ab-initio calculations**
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- II. **Investigation of the structural, mechanical, anisotropic, thermal conductivity, electronic, and phonon properties of RhTiZ(Z: As, sb) half heusler compounds under high pressure: A DFT study**
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- VI. **Computational study of effects of doping Ni and Pd on CoAl for hydrogen storage capacity, elastic and electronic properties**
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- VII. **Investigation of Tungsten-Based Seleno-Chevrel Compounds with Different Compositions for Efficient Water Splitting**
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- VIII. **Thermodynamics evaluation of half-metallic ferromagnetism in N-doped XTiO3 (X = Ca, Sr, and Ba) systems: DFT calculations**
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- X. **The mechanical, dynamical, thermodynamical properties and elastic anisotropies of cubic YbAu compound under pressure**
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- XI. **Pressure effects on structural, electronic and anisotropic elastic properties of Si doped RuGe compound with different concentrations by first-principles calculations**
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- XII. **Systematic study of optoelectronic and thermoelectric properties of new lead-free halide double perovskites A_2KGe_6 ($A = Cs, Rb$) for solar cell applications via ab-initio calculations**
Mukhtar M. W., Ramzan M., Rashid M., Hussain A., Naz G., ÇİFTÇİ Y., Dahshan A., Znaidia S.
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- XIII. **Equiatomic Quaternary $CoXCuAl$ ($X = V, Nb, \text{ and } Ta$) Heusler Compounds: Insights from DFT Calculations**
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- XIV. **First-principles study on B_2 based XAl ($X = Rh, Ru$) compounds**
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- XV. **First-principles calculations of vibrational and optical properties of half-Heusler $NaScSi$**
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- XVI. **Ab-initio study on physical properties of intermetallic $LiPb$ compound**
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- XVII. **Band Alignment in Monolayer Boron Phosphide with Janus $MoSSe$ Heterobilayers under Strain and Electric Field**
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- XVIII. **Mechanical and dynamic properties of stable two-dimensional boron-substituted $ThMoB_4$ -type graphene: First-Principles Study**
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- XIX. **Ligand-free fabrication of Au/TiO_2 nanostructures for plasmonic hot-electron-driven photocatalysis: Photoelectrochemical water splitting and organic-dye degradation**
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- XXI. **Pressure effects on electronic, elastic, and vibration properties of metallic antiperovskite $PbNCa_3$ by ab initio calculations**
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- XXII. **The pressure effect on optoelectronic and mechanical properties of chalcopyrite $BeSi_2$**
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- XXIII. **A Theoretical Study of Pressure-Induced Effects on Phase Transition and Elastic Properties of $AsTh$ Compound**
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- XXIV. **Anisotropic Elastic, Electronic and Vibrational Properties of the Semiconductor $AgScX$ ($X = Ge, C$)**

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- XXV. **Green-Emitting Lead-Free Cs₄SnBr₆ Zero-Dimensional Perovskite Nanocrystals with Improved Air Stability**
Chiara R., ÇİFTÇİ Y., Queloz V. I. E., Nazeeruddin M. K., Grancini G., Malavasi L.
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- XXVI. **Exploring the role of halide mixing in lead-free BZA(2)SnX(4) two dimensional hybrid perovskites**
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- XXVII. **Physical properties of ternary thallium chalcogenes Tl₂(M)Q₃ (M = Zr, Hf; Q = S, Se, Te) via ab-initio calculations**
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- XXVIII. **The Effect of Pressure on Elastic Anisotropy, Vibration and Optical Properties of a AgScSi Compound**
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- XXIX. **Analysis of the structural, electronic, elastic and thermodynamic properties of CuAl₂X₄ (X = O, S) spinel structure**
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- XXX. **First principle study of structural, electronic, mechanical, dynamic and optical properties of half-Heusler compound LiScSi under pressure**
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- XXXIV. **A density functional study of chalcopyrite MgGeSb₂**
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- XXXV. **First principle and tight-binding study of strained SnC**
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- XXXVI. **Structural phase transition, electronic, elastic, and vibrational properties of LiAl intermetallic compound: insights from first-principles calculations**
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- XXXVII. **First-principles calculations of Mg_{1-x}Cu_xSiP₂ alloys with x=0.0, 0.25, 0.5, 0.75 and 1.0**
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- XXXVIII. **First-Principles Study on the Structural, Elastic, Electronic and Vibrational Properties of Scandium Based Intermetallic Compounds (ScX, X = Co, Rh and Ir) Under Pressure**
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- XL. **Structural and Thermoelectronic Properties of Chalcopyrite MgSiX₂ (X = P, As, Sb)**
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- XLI. **Structural, electronic, elastic, optical, and vibrational properties of HfXSb (X = Co, Rh, Ru) half-Heusler compounds: an ab initio study**
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- XLII. **Electronic and optical properties of bilayer blue phosphorus**
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- XLIII. **The Structural, Elastic, Electronic, Thermodynamic and Vibrational Properties of Protactinium Monocarbide (PaC) from First-Principles Calculations**
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- XLIV. **Unraveling Thermal and Dynamical Properties of the Cubic BaVO₃ Perovskite from First-Principles Calculation**
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- XLV. **Effect of pressure on structural, electronic, mechanical and optical properties of ruthenium diboride with oP(12)-type structure**
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- XLVI. **Ab-initio calculations of semiconductor MgGeP₂ and MgGeAs₂**
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- LII. **Thermo-Elastic and Lattice Dynamical Properties of Pd₃X (X = Ti, Zr, Hf) Alloys: An Ab Initio Study**
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- LIV. **First-principles calculations of the mechanic and vibration properties of AgRE (RE = Ho, Er, Tm) intermetallic compounds under pressure**
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- LVIII. **First principles LDA+U and GGA+U study of HfO₂: Dependence on the effective U parameter**
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- LXI. **Pressure depended elastic, vibration and optical properties of NbIrSn from first principles calculations**
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- LXIV. **A theoretical study for thorium monocarbide (ThC)**
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- LXXII. **First-Principles Calculations on Structure, Elastic and Thermodynamic Properties of Al₂X (X=Sc, Y) under Pressure**
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- LXXIV. **A Molecular Dynamics Study on Au**
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