

## Prof. MELEK GÜLER

### Personal Information

**Email:** melek.guler@hbv.edu.tr

**Web:** <https://avesis.hacibayram.edu.tr/melek.guler>

### International Researcher IDs

ORCID: 0000-0002-9479-3667

ScopusID: 56454931300

Yoksis Researcher ID: 112174

### Education Information

Doctorate, Kirikkale University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2003 - 2006

Postgraduate, Kirikkale University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2001 - 2003

Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1993 - 1998

### Dissertations

Doctorate, Fe-30Ni-5Cu Alaşımında Farklı Etkilerle Oluşan Martensitenin Bazı Fiziksel Özellikleri, Kirikkale University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2006

### Research Areas

Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Professor, Ankara Hacı Bayram Veli University, Polatlı Faculty of Arts and Sciences, Department of Physics, 2022 - Continues

Associate Professor, Ankara Hacı Bayram Veli University, Polatlı Faculty of Arts and Sciences, Department of Physics, 2019 - 2022

Associate Professor, Hitit University, Faculty Of Arts And Sciences, Department Of Physics, 2015 - 2019

Assistant Professor, Hitit University, Faculty Of Arts And Sciences, Department Of Physics, 2008 - 2015

Research Assistant, Kirikkale University, Faculty Of Arts And Sciences, Department Of Physics, 2000 - 2008

### Courses

GENEL FİZİK I, Undergraduate, 2021 - 2022

Genel Fizik, Undergraduate, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2010 - 2011

Atomve Molekül Fiziği, Undergraduate, 2016 - 2017

fiziksel metalurji I, Postgraduate, 2014 - 2015

elektrik ve manyetizma, Undergraduate, 2014 - 2015

karakterizasyon teknikleri I, Postgraduate, 2014 - 2015

fiziksel metalurji II, Postgraduate, 2014 - 2015  
karakterizasyon teknikleri II, Postgraduate, 2014 - 2015  
atom molekül fiziği, Undergraduate, 2011 - 2012

## Advising Theses

GÜLER M., Fe-%27Ni-%4Mn-%1Zn alaşımında termal etki ile oluşan martensitenin bazı fiziksel özellikleri, Postgraduate, S.GÜL(Student), 2019

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

- I. **DFT analysis of the electronic, optical, phonon, elastic, and mechanical features of ternary Rb<sub>2</sub>X<sub>2</sub>S<sub>3</sub> (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<sub>2</sub>S<sub>2</sub>**  
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<sub>3</sub> by first principles**  
GÜLER E., UĞUR Ş., GÜLER M., UĞUR G.  
Chemical Physics, vol.575, 2023 (SCI-Expanded)
- V. **Investigation of electrical and magnetic properties of the CuZnAlMn alloy for diode application**  
Aldırmaz E., Güler M., GÜLER E.  
Indian Journal of Physics, vol.97, no.10, pp.2903-2908, 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., Özdemir A., Kushwaha A., Genç A., Uğur G.  
PHYSICA B: CONDENSED MATTER, vol.659, pp.414863-414870, 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, no.2023, pp.207568-207578, 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, pp.55-66, 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. E., ÖZDEMİR A., Güler M., UĞUR Ş.  
Inorganic Chemistry Communications, vol.150, 2023 (SCI-Expanded)
- X. **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)

- XI. **Revealing the electronic, optical, elastic, mechanical, anisotropic, and thermoelectric responses of Sc<sub>2</sub>NiZ (Z = Si, Ge, and Sn) Heusler alloys via DFT calculations**  
Güler M., Uğur Ş., Uğur G., Güler E.  
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, no.e27033, pp.1-9, 2023 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **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.115403-115412, 2022 (SCI-Expanded)
- XV. **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<sub>3</sub><sup>-</sup> 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)
- XVI. **The elastic, mechanical, and thermodynamic properties of NaXH (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, pp.413851-413868, 2022 (SCI-Expanded)
- XVII. **Exploring the elastic, mechanical and anisotropic response of Ti-5Al-XSn alloys through DFT calculations**  
Güler E., Uğur Ş., Güler M., Uğur G.  
Chinese Journal of Physics, vol.77, pp.151-160, 2022 (SCI-Expanded)
- XVIII. **Investigating the Magnetic, Mechanical, Electronic, Optical, and Anisotropic Properties of ZrCoFeX (X = Si, Ge) Quaternary Heusler Alloys via First Principles**  
Baaziz H., Ghellab T., Güler E., Charifi Z., UĞUR Ş., Güler M., UĞUR G.  
Journal of Superconductivity and Novel Magnetism, vol.35, no.5, pp.1173-1182, 2022 (SCI-Expanded)
- XIX. **Illumination intensities effect on electronic properties of Fe-Ni-Mn/p-Si Schottky diode**  
Aldirmaz E., Güler M., Güler E.  
Journal of Materials Science: Materials in Electronics, vol.33, no.7, pp.4132-4144, 2022 (SCI-Expanded)
- XX. **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., ÖZDEMİR A. T., UĞUR G.  
Solid State Communications, vol.343, 2022 (SCI-Expanded)
- XXI. **Probing the electronic, elastic, mechanical and anisotropic features of ZrTiX<sub>4</sub> alloys via density functional theory**  
UĞUR G., UĞUR Ş., ÖZDEMİR A., Güler M., GÜLER E.  
EPL, vol.137, no.4, 2022 (SCI-Expanded)
- XXII. **DFT aspects of the elastic, mechanical, magnetic, thermodynamic and optical properties of Ce<sub>3</sub>XY perovskites**  
Güler E., Güler M., UĞUR Ş., UĞUR G.  
Philosophical Magazine, vol.102, no.3, pp.244-263, 2022 (SCI-Expanded)
- XXIII. **First principles study of structural, elastic, mechanical and electronic properties of nitrogen-doped cubic diamond**  
Güler E., UĞUR Ş., Güler M., UĞUR G.

- Bulletin of Materials Science, vol.44, no.1, 2021 (SCI-Expanded)
- XXIV. **Structural, elastic and mechanical properties of Ti-15Nb-xGe alloys: insight from DFT calculations**  
Güler E., UĞUR G., UĞUR Ş., Güler M., Khenata R.  
Bulletin of Materials Science, vol.44, no.1, 2021 (SCI-Expanded)
- XXV. **Investigation of structural, kinetics and electrical properties of CuAlMnZn shape memory alloy - p-type silicon Schottky diode**  
Aldirmaz E., Güler M., Güler E., Dere A., TATAROĞLU A., Yakuphanoglu F.  
Sensors and Actuators, A: Physical, vol.331, 2021 (SCI-Expanded)
- XXVI. **A first-principles study for the elastic and mechanical properties of Ti64, Ti6242 and Ti6246 alloys**  
Güler E., Güler M., UĞUR G., UĞUR Ş.  
European Physical Journal B, vol.94, no.11, 2021 (SCI-Expanded)
- XXVII. **Effect of Quaternary Element (Ni and Mn) Additions on Structural and Magnetic Properties of Cu-Based Alloys**  
Aldirmaz E., Güler M., Güler E.  
Brazilian Journal of Physics, vol.51, no.4, pp.1224-1229, 2021 (SCI-Expanded)
- XXVIII. **First principles study of electronic, elastic, optical and magnetic properties of Rh2MnX (X = Ti, Hf, Sc, Zr, Zn) Heusler alloys**  
Güler E., Güler M., UĞUR Ş., UĞUR G.  
International Journal of Quantum Chemistry, vol.121, no.10, 2021 (SCI-Expanded)
- XXIX. **Elastic, mechanical, optical and magnetic properties of Ru2MnX (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)
- XXX. **Electronic structure, optical and vibrational properties of Ti2FeNiSb2 and Ti2Ni2InSb double half heusler alloys**  
UĞUR G., Kushwaha A., Güler M., Charifi Z., UĞUR Ş., Güler E., Baaziz H.  
Materials Science in Semiconductor Processing, vol.123, 2021 (SCI-Expanded)
- XXXI. **Elastic, mechanical, anisotropic, optical and magnetic properties of V2NiSb Heusler alloy**  
Güler M., Güler E., UĞUR Ş., UĞUR G., Charifi Z., Baaziz H.  
Physica Scripta, vol.96, no.3, 2021 (SCI-Expanded)
- XXXII. **Influence of plastic deformation on the microstructural and magnetic properties of some Fe-based alloys**  
Aldirmaz E., Güler M., Güler E.  
European Physical Journal Plus, vol.136, no.1, 2021 (SCI-Expanded)
- XXXIII. **First principles study of the electronic, optical, elastic and thermoelectric properties of Nb2WNI alloy**  
Güler M., UĞUR Ş., UĞUR G., Güler E.  
Molecular Physics, vol.119, no.12, 2021 (SCI-Expanded)
- XXXIV. **First principles investigations of structural, elastic, mechanical, electronic and optical properties of triple perovskite Ba2K2Te2O9**  
Kushwaha A., UĞUR Ş., Güler M., Güler E., UĞUR G.  
Physica B: Condensed Matter, vol.596, 2020 (SCI-Expanded)
- XXXV. **A theoretical study for the band gap energies of the most common silica polymorphs**  
Güler E., UĞUR G., UĞUR Ş., Güler M.  
Chinese Journal of Physics, vol.65, pp.472-480, 2020 (SCI-Expanded)
- XXXVI. **Effect of Nickel Addition on the Magnetic and Microstructural Properties of Cu-Al-Fe Alloy**  
Aldirmaz E., Güler M., Güler E.  
Journal of Superconductivity and Novel Magnetism, vol.33, no.3, pp.755-759, 2020 (SCI-Expanded)
- XXXVII. **First principles study of elastic and mechanical properties of TlBr and TlCl compounds**  
Güler M., UĞUR Ş., UĞUR G., Güler E.  
Journal of Molecular Structure, vol.1200, 2020 (SCI-Expanded)
- XXXVIII. **Magnetic and Kinetical Properties of Fe-27%Ni-4%Mn and Fe-27%Ni-4%Mn-2%Zn Alloys**

### Investigated by VSM and DSC

Koyuncuoglu E., Aldirmaz E., Guler M., Kulucan F. F., Guler E.

Journal of Superconductivity and Novel Magnetism, vol.32, no.5, pp.1431-1436, 2019 (SCI-Expanded)

XXXIX. **Cu-Al-Mn shape memory alloy based Schottky diode formed on Si**

Aldirmaz E., TATAROĞLU A., Dere A., Guler M., Guler E., Karabulut A., Yakuphanoglu F.

Physica B: Condensed Matter, vol.560, pp.261-266, 2019 (SCI-Expanded)

XL. **The effect of alloying element Zn on magnetic properties of martensite phase in FeNiMn alloy**

Guler M., Aldirmaz E., Gul S., Koyuncuoglu E., Kulucan F. F., Gungunes H., Guler E.

Journal of Molecular Structure, vol.1174, pp.103-106, 2018 (SCI-Expanded)

XLI. **Martensitic Transformation and Magnetic Properties of the CuAl, CuAlMn, and CuAlMnZn Alloys**

Gerdan Y. E., Aldirmaz E., Guler M., Tanak H., Guler E.

Journal of Superconductivity and Novel Magnetism, vol.31, no.12, pp.3919-3923, 2018 (SCI-Expanded)

XLII. **A shape memory alloy based on photodiode for optoelectronic applications**

Aldirmaz E., Guler M., Guler E., Dere A., TATAROĞLU A., Al-Sehemi A. G., Al-Ghamdi A. A., Yakuphanoglu F.

Journal of Alloys and Compounds, vol.743, pp.227-233, 2018 (SCI-Expanded)

XLIII. **Structural and Magnetic Properties of Thermal- and Deformation-Induced Martensite in an Fe-27%Ni-4%Mn-1%Zn Alloy**

Guler M., Aldirmaz E., Gul S., Gul I., GÜLER E.

Journal of Superconductivity and Novel Magnetism, vol.31, no.2, pp.381-386, 2018 (SCI-Expanded)

XLIV. **Elastic, mechanical and phonon behavior of wurtzite cadmium sulfide under pressure**

Güler M., GÜLER E.

Crystals, vol.7, no.6, 2017 (SCI-Expanded)

XLV. **Investigation of Magnetic Properties of Phase Transformations in Copper-Based Alloys**

Aldirmaz E., Guler M., Guler E.

Journal of Superconductivity and Novel Magnetism, vol.30, no.5, pp.1257-1261, 2017 (SCI-Expanded)

XLVI. **Elastic and related properties of Si under hydrostatic pressure calculated using modified embedded atom method**

Guler M., Guler E.

Materials Research Express, vol.3, no.7, 2016 (SCI-Expanded)

XLVII. **High pressure phase transition and elastic behavior of europium oxide**

Guler M., Guler E.

Journal of Optoelectronics and Advanced Materials, vol.16, no.11-12, pp.1322-1327, 2014 (SCI-Expanded)

XLVIII. **Magnetism and microstructure characterization of phase transitions in a steel**

Guler M.

Advances in Condensed Matter Physics, vol.2014, 2014 (SCI-Expanded)

XLIX. **High pressure elastic properties of wurtzite aluminum nitrate**

Guler E., Guler M.

Chinese Journal of Physics, vol.52, no.5, pp.1625-1635, 2014 (SCI-Expanded)

L. **Geometry optimization calculations for the elasticity of gold at high pressure**

Guler E., Guler M.

Advances in Materials Science and Engineering, vol.2013, 2013 (SCI-Expanded)

LI. **Deformation induced martensite characterization in Fe-30%Ni-5%Cu alloy**

Guler E., Guler M.

Journal of Mining and Metallurgy, Section B: Metallurgy, vol.48, no.2, pp.259-264, 2012 (SCI-Expanded)

LII. **Isothermal martensite formation in a magnetically ordered austenite phase of an Fe-32%Ni-0.4%Cr alloy**

Akturk S., Guner M., Aktas H.

Journal of Alloys and Compounds, vol.387, no.1-2, pp.279-281, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Some vibrational and thermodynamic properties of gallium arsenide**  
GÜLER E., GÜLER M., ALDIRMAZ E., KARA M.  
The Journal of Engineering and Fundamentals, vol.3, no.1, pp.9-16, 2016 (Peer-Reviewed Journal)
- II. **The Change of Electrical Resistivity According to Different Quench Techniques in Copper Manganese Alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E., KARA M.  
The Journal of Engineering and Fundamentals, vol.3, no.1, pp.17-21, 2016 (Peer-Reviewed Journal)
- III. **A Benchmark for Some Physical Properties of Zinc Blende ZnS**  
GÜLER M., GÜLER E.  
Journal of Materials Science and Engineering B, vol.4, no.12, pp.392-395, 2014 (Peer-Reviewed Journal)
- IV. **A benchmark for some bulk properties of bcc iron**  
Güler E., Güler M.  
The International Journal of Multiphysics, vol.7, no.2, pp.95-100, 2013 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **A COMBINED THEORETICAL AND EXPERIMENTAL STUDY FOR NOVEL TITANIUM BASED BIOMATERIALS**  
Güler E., Güler M., Uğur Ş., Uğur G.  
6th International Conference on the World of Technology and Advanced Materials "WITAM'23, Batna, Algeria, 23 - 24 October 2023, pp.18
- II. **INVESTIGATING THE PHYSICAL PROPERTIES OF RbXF<sub>3</sub> (X = Rh, Os, Ir, V) COMPOUNDS**  
Uğur Ş., Uysal Y., Güler M.  
6th International Conference on the World of Technology and Advanced Materials "WITAM'23", Batna, Algeria, 23 - 24 October 2023, pp.116
- III. **ELECTRONIC AND OPTICAL PROPERTIES OF 2D MATERIALS**  
Uğur G., Uğur Ş., Güler M., Güler E.  
6th International Conference on the World of Technology and Advanced Materials "WITAM'23", Batna, Algeria, 23 - 24 October 2023, pp.17
- IV. **STRUCTURAL, ELASTIC, ELECTRONIC AND OPTICAL CHARACTERISTICS OF Ti<sub>2</sub>CrZ (Z=Al, Ga, In, Si, Ge, Sn) HEUSLER ALLOYS**  
Uğur Ş., Demirhan İ., Güler M.  
6th International Conference on the World of Technology and Advanced Materials "WITAM'23, Batna, Algeria, 23 - 24 October 2023, pp.75
- V. **Awaiting Horizons of 2D Materials**  
Güler E., Uğur Ş., Güler M., Uğur G., Aldırmaz E.  
ICWMMMS2022, Dera-Ismail-Khan, Pakistan, 24 October - 26 November 2022
- VI. **GULP: An efficient and quick tool for molecular modelling**  
GÜLER E., GÜLER M., ALDIRMAZ E., UĞUR Ş., UĞUR G.  
The International workshop on the thermodynamics of metallic alloys the International Congress on the World of Technology and Advanced Materials (WITAM 2019), Batna, Algeria, 13 - 14 November 2019
- VII. **Effect of heat treatment on kinetic properties of Cu-Zn-Al-Ni alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
4.International Conference on Material Science and Technology in Kızılcahamam/ANKARA (IMSTEC 2019), Turkey, 18 - 20 October 2019, pp.601-603
- VIII. **Effect of heat treatment on structural behaviour of Cu-Zn-Al-Ni alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
4.International Conference on Material Science and Technology in Kızılcahamam/ANKARA(IMSTEC 2019), Turkey,

18 October 2019, pp.598-600

- IX. Investigation of heat capacity of AL based alloys for nuclear applications**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
4 th International Organic Electronic Material Technology Conference (OEMT'2019, 17 - 19 July 2019, pp.34-37
- X. Electrical resistivity of Aluminum alloys for the application of electric**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
4 th International Organic Electronic Material Technology Conference (OEMT'2019), 17 - 19 July 2019, pp.30-34
- XI. Effects of LEAD (PB) and THALLIUM (TL) elements on melting temperatures of eutectic microstructure**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
4 th International Organic Electronic Material Technology Conference (OEMT'2019), 17 - 19 July 2019, pp.25-29
- XII. Calculating the elastic constants of lead.**  
ALDIRMAZ E., GÜLER E., GÜLER M.  
5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Turkey, 2 - 04 May 2019, pp.19-196
- XIII. A theoretical investigation for the mechanical properties of platinum**  
GÜLER M., GÜLER E., ALDIRMAZ E.  
5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Turkey, 2 - 04 May 2019, pp.186-187
- XIV. Elastic constants of fcc palladium.**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Turkey, 02 May 2019, pp.188-189
- XV. Computing the mechanical properties of lead.**  
ALDIRMAZ E., GÜLER E., GÜLER M.  
5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Turkey, 2 - 04 May 2019, pp.197-198
- XVI. A theoretical study for the elastic constants of platinum**  
GÜLER M., GÜLER E., ALDIRMAZ E.  
5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Turkey, 2 - 04 May 2019, pp.184-185
- XVII. Some mechanical properties of fcc palladium.**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Turkey, 2 - 04 May 2019, pp.190-191
- XVIII. Crystallographic and Magnetic Properties of Phase Transformation in Cu-10Al-5Fe alloy**  
GÜLER M., ALDIRMAZ E., GÜLER E.  
CSC2018, 26 - 28 October 2018
- XIX. Magnetic Behavior in Cu-Based Alloy**  
GÜLER M., ALDIRMAZ E., GÜLER E.  
CSC2018, 26 - 28 October 2018
- XX. Investigation of Crystal Structure and Magnetic Properties in Cu-Zn-Al-Mn Alloy**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
CSC2018, 26 - 28 October 2018
- XXI. A Theoretical Comparison for the Phonon Modes of Wurtzite ZnS and CdS**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
CSC2018, 26 - 28 October 2018
- XXII. The Change with Addition of Element Zn on Structural Properties of Martensite Phase in Fe-based Alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
CSC2018, 26 - 28 October 2018

- XXIII. **Some Characteristics of Thermally Induced Martensite in Cu-10Al-5Fe Alloy**  
GÜLER M., ALDIRMAZ E., GÜLER E.  
CSC2018, 26 - 28 October 2018
- XXIV. **Magnetic Characterization in Cu-10Al-5Fe-5Ni Alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
CSC2018, 26 - 28 October 2018
- XXV. **A theoretical benchmark for elastic and mechanical properties of wurtzite ZnS and CdS**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
CCS2018, 26 - 28 October 2018
- XXVI. **The change with deformation of phase transformation temperatures in CuMnZn alloy**  
ALDIRMAZ E., GÜLER M., TANAK H., GÜLER E.  
MSNG2018, 4 - 06 October 2018
- XXVII. **The Electrical Properties of AlZnPb alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
MSNG 2018, 4 - 06 October 2018
- XXVIII. **Formation mechanisms of eutectic in an Al55Zn40Ti5 alloy and the electrical properties of the alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
MSNG 2018, 4 - 06 October 2018
- XXIX. **Investigation of Electrical Properties of Al-based alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
MSNG 2018, 4 - 06 October 2018
- XXX. **Effects of of MN and ZN additions on the structures of CuAl shape memory alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
TFD, 6 - 09 September 2018
- XXXI. **Formation of precipitates in an Cu based alloy and their effects on phase transformation temperature of the alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
TFD, 6 - 09 September 2018
- XXXII. **Elastic anisotropy of BaF<sub>2</sub>**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
WITAM 2018, 1 - 03 August 2018
- XXXIII. **Some elastic and mechanical properties of BaF<sub>2</sub>**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
WITAM 2018, 1 - 03 August 2018
- XXXIV. **A theoretical benchmark for high pressure elastic, mechanical and phonon properties of wurtzite CdS**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
1st International Conference on Modelling and Simulation of Emerging Materials, 1 - 03 July 2018
- XXXV. **A theoretical benchmark for high pressure elastic, mechanical and phonon properties of wurtzite ZnS**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
International conference on solid state physics 2017 (ICSSP 17), 10 - 14 December 2017
- XXXVI. **Magnetic properties of thermally induced martensite in aFe-27 Ni-4 Mn-1 Zn (wt. ) alloy**  
Gül S., GÜLER M., ALDIRMAZ E., GÜLER E.  
"International Turkish Congress on Molecular Spectroscopy (TURCMOS2017)", 26 - 29 September 2017
- XXXVII. **Deformation effect on magnetic properties of ferromagnetic Fe-27 Ni-4 Mn-1 Zn Alloy**  
gül i., GÜLER M., ALDIRMAZ E., GÜLER E.  
"International Turkish Congress on Molecular Spectroscopy (TURCMOS2017)", 26 - 29 September 2017
- XXXVIII. **Investigation by Mössbauer spectroscopy of magnetic properties in Fe-27 Ni-4 Mn Alloy**  
Gül S., Yılmaz H. S., GÜLER M., ALDIRMAZ E., GÜLER E.  
International Turkish Congress on Molecular Spectroscopy (TURCMOS2017)", 26 - 29 September 2017

- XXXIX. **Magnetic properties of deformation induced martensite in aFe-27 Ni-4 Mn-1 Zn (wt. ) alloy**  
Gül İ., GÜLER M., ALDIRMAZ E., GÜLER E.  
International Turkish Congress on Molecular Spectroscopy (TURCMOS2017), 26 - 29 September 2017
- XL. **Structural Properties of Fe-27 Ni-4 Mn-2 Zn alloy**  
Kulucan F. F., GÜLER M., ALDIRMAZ E., GÜLER E.  
International Turkish Congress on Molecular Spectroscopy (TURCMOS2017), 26 - 29 September 2017
- XLII. **The structural and magnetic properties of ferromagnetic Fe-27 Ni-4 Mn-1 Zn Alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
International Congress on New Trends in Science, Engineering and Technology (ICONTRENDS), 27 - 29 April 2017
- XLIII. **Phase Transformations in Fe-27Ni-4Mn Alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
International Congress on New Trends in Science, Engineering and Technology (ICONTRENDS), 27 - 29 April 2017
- XLIV. **Thermal Behavior of Cu-10.56Al Alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
International Congress on New Trends in Science, Engineering and Technology (ICONTRENDS), 27 - 29 April 2017
- XLV. **Magnetic properties of Phase in Cu 25 50 Mn 3 72 Zn alloy 2nd International Conference on Advanced and Functional Material Technologies**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
AFMAT(2016), 20 - 22 October 2016
- XLVI. **Magnetic properties of Phase in Cu 25 50 Mn 3 72 Zn alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
AFMAT2016, Turkey, 20 - 22 October 2016
- XLVII. **REBO potential aspects of elastic and related mechanical properties of cubic diamond**  
GÜLER M., GÜLER E.  
WITAM 2016, Turkey, 28 September - 02 October 2016
- XLVIII. **A theoretical benchmark for elastic and mechanical properties of hexagonal diamond**  
GÜLER E., GÜLER M.  
WITAM 2016, Turkey, 28 September - 02 October 2016
- XLIX. **Investigation of magnetic properties of casting CUMN alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E., KARA M., ÖZDOĞAN T.  
Molecular Electronic Structure, Argentina, 19 - 23 September 2016
- L. **Magnetic behavior of copper based alloys**  
ALDIRMAZ E., GÜLER M., GÜLER E., KARA M., ÖZDOĞAN T.  
Molecular Electronic Structure, 19 - 23 September 2016
- L. **MAGNETIC BEHAVIOR OF COPPER BASED ALLOYS Molecular Electronic Structure**  
ALDIRMAZ E., GÜLER M., GÜLER E., Kara M., Ozdoğan T.  
Molecular Elektronik Structure, 19 - 23 September 2016
- LI. **Investigation of magnetic properties the casting Cu Mn alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E., KARA M., ÖZDOĞAN T.  
Molecular Electronic Structure Buenos Aires, Argentina September 19-23, 2016, 19 - 23 September 2016
- LII. **Investigation of magnetic properties the casting Cu Mn alloy E Aldirmaz M Guler E Guler M Kara and T Ozdogan**  
ALDIRMAZ E., GÜLER M., GÜLER E., KARA M., ÖZDOĞAN T.  
MOLECULAR ELECTRONIC STRUCTURE AT BUENOS AIRES, Buenos Aires, Argentina, 19 - 23 September 2016
- LIII. **Theoretical predictions and quantitative comparisons for the phonon modes of GaAs**  
GÜLER E., GÜLER M.  
International conference on solid state physics 2015 (ICSSP 15), Lahore, Pakistan, 15 - 18 December 2015
- LIV. **Comparing some elastic and mechanical properties of cubic cuprite**  
GÜLER M., GÜLER E.  
ICMSCMP 2015: 17th International Conference on Material Science and Condensed Matter Physics, Roma, Italy, 3 - 04 December 2015

- LV. A benchmark for some elastic and mechanical properties of uranium dioxide**  
GÜLER E., GÜLER M.  
CMSCMP 2015: 17th International Conference on Material Science and Condensed Matter Physics Rome, Italy (2015), Roma, Italy, 3 - 04 December 2015
- LVI. Comparison for some elastic and mechanical properties of plutonium dioxide**  
GÜLER M., GÜLER E.  
ICMSCMP 2015: 17th International Conference on Material Science and Condensed Matter Physics, Barcelona, Spain, 26 - 27 October 2015
- LVII. A comparison for some elastic and mechanical properties of neptunium dioxide**  
GÜLER E., GÜLER M.  
ICMSCMP 2015: 17th International Conference on Material Science and Condensed Matter Physics, Barcelona, Spain, 26 - 27 October 2015
- LVIII. Comparing mechanical properties of MgB<sub>2</sub> and RuSr<sub>2</sub>HoCu<sub>2</sub>O<sub>8</sub> superconductors**  
ALP U., GÜLER M., GÜLER E.  
7 th International Conference on Materials Science and Condensed Matter Physics, Chisinau, Moldova, 1 - 03 September 2014
- LIX. A comparison for some elastic and mechanical properties of cerium dioxide**  
GÜLER E., GÜLER M., ALP U.  
7 th International Conference on Materials Science and Condensed Matter Physics, Chisinau, Moldova, (2014), Chisinau, Moldova, 1 - 03 September 2014
- LX. Some elastic and mechanical properties of thorium dioxide**  
GÜLER M., GÜLER E.  
7 th International Conference on Materials Science and Condensed Matter Physics, Chisinau, Moldova, 1 - 03 September 2014
- LXI. A comparison for elastic and relevant physical parameters of ceria**  
GÜLER E., GÜLER M.  
Condensed Matter in Paris 2014, Paris, France, 1 - 05 June 2014
- LXII. Some elastic and related physical parameters of strontium oxide**  
GÜLER M., GÜLER E.  
Condensed Matter in Paris 2014, Paris, France, 1 - 05 June 2014
- LXIII. A comparative study for cubic elastic constants of fcc Ag, Au and Cu**  
GÜLER M., GÜLER E., GÜNGÜNEŞ H., ALP U.  
Multiphysics 2013, Amsterdam, Netherlands, 1 - 05 December 2013
- LXIV. Some elastic parameters of zinc blende ZnS**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
Multiphysics 2013, Amsterdam, Netherlands, 1 - 05 December 2013
- LXV. Calculations on the basic set parameters of bcc molybdenum**  
GÜLER E., GÜLER M.  
ICMSE 2013, Amsterdam, Netherlands, 1 - 05 June 2013
- LXVI. High pressure elastic behavior of alpha quartz**  
GÜLER M., GÜLER E.  
ICMSE 2013, Amsterdam, Netherlands, 1 - 05 June 2013
- LXVII. Molecular dynamics calculations on the bulk properties of bcc iron**  
GÜLER E., GÜLER M.  
Multiphysics 2012, LÍZBON, Portugal, 1 - 05 December 2012
- LXVIII. Generalized quasi fermi energy calculations for GaAs and GaSb quantum wells**  
GÜLER M., ÖZEREN S., GÜLER E.  
6 th International Conference on Materials Science and Condensed Matter, Chisinau, Moldova, 1 - 05 June 2012
- LXIX. Minimum energy pathways for stacking and twin faults in bcc iron**  
GÜLER E., GÜLER M., SEHITOGLU H.  
6 th International Conference on Materials Science and Condensed Matter Physics, 1 - 05 June 2012

**LXX. Fe-23 Cu Alařımında Soęutma Hızının Dentrit Oluřumuna Etkisi**

GÜLER M., GÜLER E., AKTAŐ H.

Turkish Physical Society, 25th International Physics Conference, Muęla, Turkey, 1 - 05 August 2008

**LXXI. Fe-25Ni-15Co-2Mo Alařımında Termal Etkiyle Oluřan Martensite Fazın Bazı Fiziksel Özellikleri**

KIRINDI T., SARI U., GÜLER E., GÜLER M.

Turkish Physical Society, 24th International Physics Conference, Muęla, Turkey, 1 - 05 August 2007

## **Supported Projects**

GÜLER M., Project Supported by Higher Education Institutions, NiMnGa Yüksek Sıcaklık Őekil Hatırlamalı Alařımlara Element Etkisi, 2013 - 2015

## **Tasks In Event Organizations**

Güler M., 6th International Conference on the World of Technology and Advanced Materials "WITAM'23", Scientific Congress, Batna, Algeria, Ekim 2023

## **Metrics**

Publication: 137

Citation (WoS): 531

Citation (Scopus): 513

H-Index (WoS): 14

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