

# **Prof. MELEK GÜLER**

## **Personal Information**

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## **International Researcher IDs**

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## **Education Information**

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

Postgraduate, Kirikkale University, Fen Bilimleri Enstitüsü, Fizik (YL) (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 Haci Bayram Veli University, Polatlı Faculty of Arts and Sciences, Department of Physics, 2022 - Continues

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

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

Assistant Professor, Hıtit 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

Atom ve 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 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)
- II. 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)
- III. 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)
- IV. 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)
- V. 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)
- VI. 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  
Baaaziz 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)
- VII. 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)
- VIII. 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)
- IX. 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)
- X. 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)

- XI. **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)
- XII. **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)
- XIII. **Dynamical and mechanical stability, electronic properties, bonding and weak interactions analysis of new compounds MgS<sub>2</sub> and MgSe<sub>2</sub> in Pa3<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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)

- XXV. **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)

- XXVI. **First principles study of electronic, elastic, optical and magnetic properties of Rh<sub>2</sub>MnX (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)

- XXVII. **Elastic, mechanical, optical and magnetic properties of Ru<sub>2</sub>MnX (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)

- XXVIII. **Electronic structure, optical and vibrational properties of Ti<sub>2</sub>FeNiSb<sub>2</sub> and Ti<sub>2</sub>Ni<sub>2</sub>InSb 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)

- XXIX. **Elastic, mechanical, anisotropic, optical and magnetic properties of V<sub>2</sub>NiSb Heusler alloy**

Güler M., Güler E., UĞUR Ş., UĞUR G., Charifi Z., Baaziz H.

Physica Scripta, vol.96, no.3, 2021 (SCI-Expanded)

- XXX. **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)

- XXXI. **First principles study of the electronic, optical, elastic and thermoelectric properties of Nb<sub>2</sub>WNi alloy**

Güler M., UĞUR Ş., UĞUR G., Güler E.

Molecular Physics, vol.119, no.12, 2021 (SCI-Expanded)

- XXXII. **First principles investigations of structural, elastic, mechanical, electronic and optical properties of triple perovskite Ba<sub>2</sub>K<sub>2</sub>Te<sub>2</sub>O<sub>9</sub>**

Kushwaha A., UĞUR Ş., Güler M., Güler E., UĞUR G.

Physica B: Condensed Matter, vol.596, 2020 (SCI-Expanded)

- XXXIII. **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)

- XXXIV. **Effect of Nickel Addition on the Magnetic and Microstructural Properties of Cu-Al-Fe Alloy**

Aldirmaz E., Guler M., Guler E.

Journal of Superconductivity and Novel Magnetism, vol.33, no.3, pp.755-759, 2020 (SCI-Expanded)

- XXXV. **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)

- XXXVI. **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)

- XXXVII. **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)

- XXXVIII. **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)
- XXXIX. 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)
- XL. 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)
- XLI. 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)
- XLII. Elastic, mechanical and phonon behavior of wurtzite cadmium sulfide under pressure**  
 Guler M., GÜLER E.  
 Crystals, vol.7, no.6, 2017 (SCI-Expanded)
- XLIII. 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)
- XLIV. 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)
- XLV. 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)
- XLVI. Magnetism and microstructure characterization of phase transitions in a steel**  
 Guler M.  
 Advances in Condensed Matter Physics, vol.2014, 2014 (SCI-Expanded)
- XLVII. 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)
- XLVIII. 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)
- XLIX. 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)
- L. 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 Accourding 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. 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
- II. 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
- III. 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
- IV. 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
- V. Awaiting Horizons of 2D Materials**  
Güler E., Uğur Ş., Güler M., Uğur G., Aldırmaz E.  
ICWMMS2022, 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. Effects of LEAD (PB) and THALLIUM (TL) elements on melting temperatures of eutectic microstructure**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
4 th İnternational Organic Electronic Material Technology Conference (OEMT'2019), 17 - 19 July 2019, pp.25-29
- X. Electrical resistivity of Aluminum alloys for the application of electric**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
4 th İnternational Organic Electronic Material Technology Conference (OEMT'2019), 17 - 19 July 2019, pp.30-34
- XI. 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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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
- 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. **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
- XVIII. **A Theoretical Comparison for the Phonon Modes of Wurtzite ZnSand CdS**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
CSC2018, 26 - 28 October 2018
- XIX. **Magnetic Behavior in Cu-BasedAlloy**  
GÜLER M., ALDIRMAZ E., GÜLER E.  
CSC2018, 26 - 28 October 2018
- XX. **A theoretical benchmark for elastic and mechanical properties of wurtzite ZnS and CdS**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
CCS2018, 26 - 28 October 2018
- XXI. **Crystallographic and Magnetic Properties of PhaseTransformation in Cu-10Al-5Fe alloy**  
GÜLER M., ALDIRMAZ E., GÜLER E.  
CSC2018, 26 - 28 October 2018
- XXII. **Investigation of Crystal Structure and Magnetic Properties in Cu-Zn-Al-Mn Alloy**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
CSC2018, 26 - 28 October 2018
- XXIII. **Magnetic Characterization in Cu-10Al-5Fe-5Ni Alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
CSC2018, 26 - 28 October 2018
- XXIV. **Some Characteristics of Thermally Induced Martensite in Cu-10Al-5Fe Alloy**  
GÜLER M., ALDIRMAZ E., GÜLER E.  
CSC2018, 26 - 28 October 2018
- XXV. **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

- 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. **Investigation of Electrical Properties of Al-based alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
MSNG 2018, 4 - 06 October 2018
- XXVIII. **Formation mechanisms of eutectic in an Al55Zn40Tl5 alloy and the electrical properties of the alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
MSNG 2018, 4 - 06 October 2018
- XXIX. **The Electrical Properties of AlZnPb alloy**  
ALDIRMAZ E., GÜLER M., GÜLER E.  
MSNG 2018, 4 - 06 October 2018
- XXX. **Effects 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. **Some elastic and mechanical properties of BaF<sub>2</sub>**  
GÜLER E., GÜLER M., ALDIRMAZ E.  
WITAM 2018, 1 - 03 August 2018
- XXXIII. **Elastic anisotropy 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. **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
- XXXVII. **Deformation effect on magnetic properties of ferromagneticFe-27 Ni-4 Mn-1 Zn Alloy**  
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- XXXVIII. **Investigation by Mössbauer spectroscopy of magnetic properties inFe-27 Ni-4 Mn Alloy**  
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- XXXIX. **Magnetic properties of deformation induced martensite in aFe-27 Ni-4 Mn-1 Zn (wt. ) alloy**  
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- XL. **Magnetic properties of thermally induced martensite in aFe-27 Ni-4 Mn-1 Zn (wt. ) alloy**  
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- XLVI. REBO potential aspects of elastic and related mechanical properties of cubic diamond**  
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- 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. 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 PhysicsRome, Italy (2015), Roma, Italy, 3 - 04 December 2015
- LV. 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
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- LX. **Comparing mechanical properties of MgB<sub>2</sub> and RuSr<sub>2</sub>HoCu<sub>2</sub>O<sub>8</sub> superconductors**  
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- LXI. **Some elastic and related physical parameters of strontium oxide**  
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- LXIII. **A comparative study for cubic elastic constants of fcc Ag, Au and Cu**  
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- LXV. **Calculations on the basic set parameters of bcc molybdenum**  
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## **Supported Projects**

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## **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: 135

Citation (WoS): 531

Citation (Scopus): 513

H-Index (WoS): 14

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