

## Prof. Emel Kilit Dođan

### Personal Information

**Office Phone:** [+90 432 225 1698](tel:+904322251698) Extension: 22203

**Email:** [ekilit@yyu.edu.tr](mailto:ekilit@yyu.edu.tr)

**Web:** <https://avesis.yyu.edu.tr/ekilit>

### International Researcher IDs

ORCID: 0000-0001-7609-7206

Yoksis Researcher ID: 37540

### Education Information

Doctorate, Van Yüzüncü Yil University, Fen Bilimleri Enstitüsü, Fizik Bölümü, Turkey 2003 - 2011

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliđi , Turkey 2001 - 2004

Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliđi, Turkey 1996 - 2001

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, CRITICAL BEHAVIOUR OF THE THERMODYNAMIC QUANTITIES FOR THE THERMOTROPIC AND FERROELECTRIC LIQUID CRYSTALS CLOSE TO THE PHASE TRANSITIONS, Middle East Technical University, Fen Bilimleri Enstitüsü, Fizik Bölümü, 2011

Postgraduate, RF LİNEER HIZLANDIRICILARDA PARAMETRE OPTİMİZASYON VE DEMET DİNAMİĐİ, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliđi, 2004

### Research Areas

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

### Academic Titles / Tasks

Associate Professor, Van Yüzüncü Yil University, Fen Fakültesi, Fizik Bölümü, 2017 - Continues

Assistant Professor, Van Yüzüncü Yil University, Fen Fakültesi, Fizik Bölümü, 2012 - 2017

Research Assistant PhD, Van Yüzüncü Yil University, Fen Bilimleri Enstitüsü, Fizik Bölümü, 2011 - 2012

Research Assistant, Middle East Technical University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2003 - 2011

## Academic and Administrative Experience

Vice Dean, Van Yüzüncü Yil University, Fen Fakültesi, Fizik Bölümü, 2021 - Continues

Van Yüzüncü Yil University, 2017 - Continues

Deputy Head of Department, Van Yüzüncü Yil University, 2017 - 2022

Van Yüzüncü Yil University, 2016 - 2019

## Advising Theses

Doğan E., XRhSe (X=P, Bi, As) Kristallerinin Bazı Fiziksel Özelliklerinin Farklı Basınçlarda Yoğunluk Fonksiyoneli Teorisi ile İncelenmesi, Doctorate, N.Aydın(Student), Continues

Doğan E., Some Physical Properties of LiPaO3 Compound: an ab-initio Study, Postgraduate, K.Ezzulddin(Student), Continues

Doğan E., The Investigation of Some Physical Properties of BaIrO3 Perovskite Crystal with Density Functional Theory , Postgraduate, H.Rzgar(Student), 2021

Doğan E., ZrBRh3 Kristalinin Fiziksel Özelliklerinin ab-initio Yöntemle Hesaplanması, Postgraduate, O.Aydın(Student), 2021

Doğan E., Ab-initio Yöntemle PdAsSe Kristalinin Yapısal, Elektronik, Dinamik ve Termodinamik Özelliklerinin İncelenmesi, Postgraduate, S.Eren(Student), 2019

Doğan E., Nias2 Kristalinin Yapısal, Elektronik, Dinamik Ve Termodinamik Özelliklerinin Yoğunluk Fonksiyoneli Teorisi ile İncelenmesi, Postgraduate, S.İlgin(Student), 2019

Doğan E., Yoğunluk Fonksiyoneli Teorisi ile BaGePt Kristalinin Yapısal, Elektronik, Elastik ve Dinamik Özelliklerinin İncelenmesi, Postgraduate, F.Arslanbaş(Student), 2019

Doğan E., TaCu3Se4 Kristalinin Fiziksel Özelliklerinin Yoğunluk Fonksiyoneli Teorisi ile İncelenmesi, Postgraduate, F.Doru(Student), 2017

Doğan E., RbGeBr3 Kristalinin Yapısal, Elektronik, Optiksel, Dinamik ve Termodinamik Özelliklerinin Yoğunluk Fonksiyoneli Teorisi ile İncelenmesi, Postgraduate, F.Erdinç(Student), 2017

## Jury Memberships

Doctorate, Doktora Tez Savunması, Van Yüzüncü Yil Üniversitesi, July, 2019

Post Graduate, Tez Savunma Jürisi, Van Yüzüncü Yil Üniversitesi, December, 2017

Post Graduate, Tez Savunma Jürisi, Van Yüzüncü Yil Üniversitesi, September, 2017

Post Graduate, Tez Savunma Jürisi, Van Yüzüncü Yil Üniversitesi, January, 2017

Post Graduate, Tez Savunma Jürisi, Van Yüzüncü Yil Üniversitesi, May, 2016

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

- I. **Theoretical Insight on the Structural, Electronic, Elastic, Optical and Vibrational Properties of Ligasi Half-Heusler Crystal for Ground State and Under Pressure**  
Gulebaglan S., Kilit Doğan E.  
Silicon, 2024 (SCI-Expanded)
- II. **Investigation of the complex magnetic behavior of Ni<sub>46.86</sub>Co<sub>2.91</sub>Mn<sub>38.17</sub>Sn<sub>12.06</sub> (at%) magnetic shape memory alloy at low temperatures**  
Yildirim O., YÜCE EMRE S., Bruno N. M., Doğan E., YURTSEVEN H. H., DUMAN E., Emre B.  
PHYSICA SCRIPTA, vol.97, no.8, 2022 (SCI-Expanded)
- III. **Prediction the structural, electronic, elastic and dynamical properties of LiAlGe and LiInGe half-Heusler crystals by density functional theory**  
Gulebaglan S., Doğan E.  
Materials Today Communications, vol.32, 2022 (SCI-Expanded)

- IV. **Ab Initio Calculations of Structural, Electronic, Elastic, Optical, and Dynamical Properties of Half-Heusler LiSiB Compound**  
 AKYÜZ G. B., Doğan E., BOZ YURDAŞAN N., YILDIZ TUNALI A., Erden Gülebağlan S.  
 JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.35, no.6, pp.1517-1525, 2022 (SCI-Expanded)
- V. **Calculation of the phase diagram of n-alkanes (C<sub>n</sub>H<sub>2n+2</sub>) by the Landau mean field theory**  
 YURTSEVEN H. H., Kilit Dogan E.  
 Fluid Phase Equilibria, vol.556, 2022 (SCI-Expanded)
- VI. **Calculation of the T-X phase diagram for the first-order smectic-hexatic transitions in binary mixtures**  
 Kilit Dogan E., YURTSEVEN H. H.  
 Physics of Fluids, vol.34, no.4, 2022 (SCI-Expanded)
- VII. **A computational estimation on structural, electronic, elastic, optic and dynamic properties of Li(2)TlA (A=Sb and Bi): First-principles calculations**  
 Dogan E. K., Erden Gülebağlan S.  
 MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.138, 2022 (SCI-Expanded)
- VIII. **Calculation of the magnetization and the heat capacity for [NH<sub>2</sub> NH<sub>3</sub>][M(HCOO)<sub>3</sub>] (M=Fe, Mn) near the phase transitions**  
 YURTSEVEN H. H., Doğan E.  
 Ferroelectrics, vol.600, no.1, pp.73-87, 2022 (SCI-Expanded)
- IX. **Magnetic, thermal and ferroelectric properties of MOFs (MHyM, M = Fe, Mn) close to phase transitions**  
 Yurtseven H., Dogan E.  
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.540, 2021 (SCI-Expanded)
- X. **Structural, electronic, dynamic, optic and elastic properties of MgScGa via density functional theory**  
 Dogan E., Gulebaglan S.  
 SOLID STATE COMMUNICATIONS, vol.337, 2021 (SCI-Expanded)
- XI. **Some properties of LiInSi half-Heusler alloy via density functional theory**  
 Dogan E. K., Erden Gülebağlan S.  
 BULLETIN OF MATERIALS SCIENCE, vol.44, no.3, 2021 (SCI-Expanded)
- XII. **Lattice dynamics and electronic properties of Heusler alloys Li<sub>2</sub>AIX (X=Ga, In): A comparison study**  
 Dogan E. K., Erden Gülebağlan S.  
 CHINESE JOURNAL OF CHEMICAL PHYSICS, vol.34, no.2, pp.173-178, 2021 (SCI-Expanded)
- XIII. **A comparison study of the structural electronic, elastic and lattice dynamic properties of ZrInAu and ZrSnPt**  
 Erden Gülebağlan S., Dogan E. K.  
 ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.76, no.6, pp.559-567, 2021 (SCI-Expanded)
- XIV. **Investigation of Structural, Electronic, and Dynamic Properties of Half-Heusler Alloys XCuB (X = Ti, Zr) by First Principles Calculations**  
 Erden Gülebağlan S., Kilit Doğan E.  
 Crystal Research And Technology, vol.56, no.1, pp.2000116, 2021 (SCI-Expanded)
- XV. **Magnetization Studied as a Function of Temperature and Magnetic Field for Ferromagnetic Transition in DMNaFe**  
 Kilit Dogan E., YURTSEVEN H. H.  
 JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.11, pp.6388-6393, 2020 (SCI-Expanded)
- XVI. **Structural electronic and dynamic properties of Li<sub>3</sub>Bi and Li<sub>2</sub>NaBi**  
 Erden Gülebağlan S., Dogan E.  
 MATERIALS RESEARCH EXPRESS, vol.7, no.1, 2020 (SCI-Expanded)
- XVII. **Magnetic ordering in two ferromagnetic sublattices of two mixed-valence iron(II)-iron(III) metal formate frameworks**  
 YURTSEVEN H. H., Doğan E.

- MATERIALS RESEARCH BULLETIN, vol.119, 2019 (SCI-Expanded)
- XVIII. **Analysis and calculation of the magnetization, magnetic susceptibility and the specific heat close to phase transitions in heterometallics**  
Dugan E., Yurtseven H.  
CURRENT APPLIED PHYSICS, vol.19, no.10, pp.1096-1102, 2019 (SCI-Expanded)
- XIX. **Calculation of the T-P Phase Diagrams for the Halogenomethane Compounds (CCl<sub>4</sub>-nBr<sub>n</sub>, n=0, 1, 2, 4) Using the Mean Field Theory**  
Yurtseven H., Isik S. B., Dogan E.  
PHYSICS OF THE SOLID STATE, vol.61, no.2, pp.201-206, 2019 (SCI-Expanded)
- XX. **Temperature and the field dependence of the magnetization close to order-disorder phase transitions in DMMn and the chromium-doped DMMn**  
YURTSEVEN H. H., Doğan E.  
POLYHEDRON, vol.154, pp.132-137, 2018 (SCI-Expanded)
- XXI. **Thermodynamic Parameters of Cholesteric/Smectic A Transition in Cholesteric Myristate and Its Binary Mixture CM/PCPB**  
YURTSEVEN H. H., Doğan E.  
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A, vol.92, no.6, pp.1208-1212, 2018 (SCI-Expanded)
- XXII. **Analysis of Magnetization as a Function of Temperature for CoMn<sub>1-x</sub>Fe(x)Ge**  
Yuce S., Dogan E., Emre B., Bruno N. M., Karaman I., Yurtseven H.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, no.12, pp.3587-3594, 2017 (SCI-Expanded)
- XXIII. **Analysis of the susceptibility of condensed oxygen under high pressures and in strong magnetic fields**  
Dogan E., Yurtseven H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1131, pp.236-241, 2017 (SCI-Expanded)
- XXIV. **Ab-initio study of CsGeCl<sub>3</sub> compound in paraelectric and ferroelectric phases**  
Erdinc B., Secuk M. N., Aycibin M., GÜLEBAGAN S. E., Dogan E., Akkuş H.  
FERROELECTRICS, vol.494, no.1, pp.138-149, 2016 (SCI-Expanded)
- XXV. **Analysis of the dielectric constant, spontaneous polarization and the coersive field close to the phase transitions in ferroelectric K<sub>2</sub>CoCl<sub>4</sub>**  
Yurtseven H., Dogan E.  
FERROELECTRICS, vol.504, no.1, pp.15-21, 2016 (SCI-Expanded)
- XXVI. **Calculation of the H-T phase diagram, magnetization and susceptibility in layered structures**  
YURTSEVEN H. H., Kilit Dogan E., Emre B., ACET M.  
Journal of Magnetism and Magnetic Materials, vol.393, pp.544-550, 2015 (SCI-Expanded)
- XXVII. **Ferromagnetic and antiferromagnetic properties in layered structures (La<sub>0.6</sub>Nd<sub>0.4</sub>Mn<sub>2</sub>Si<sub>2</sub>)**  
Kilit Dogan E., Emre B., YURTSEVEN H. H.  
Journal of Molecular Structure, vol.1089, pp.178-183, 2015 (SCI-Expanded)
- XXVIII. **Physical properties of RbAu compound**  
Aycibin M., Dogan E., Gulebaglan S. E., Nurullah Secuk M., Erdinc B., Akkuş H.  
Computational Condensed Matter, vol.1, no.1, pp.32-37, 2014 (SCI-Expanded)
- XXIX. **Structural and electronic properties of zincblende phase of Tl(x)Ga<sub>1-x</sub>As(y)P<sub>1-y</sub> quaternary alloys: First-principles study**  
Gulebaglan S., Doğan E., Aycibin M., Secuk M. N., Erdinc B., Akkuş H.  
CENTRAL EUROPEAN JOURNAL OF PHYSICS, vol.11, no.12, pp.1680-1685, 2013 (SCI-Expanded)
- XXX. **Structural, thermodynamic and phonon properties of SbSi and SbSBr single crystals**  
Doğan E., Aycibin M., Gulebaglan S., SECUK M. N., ERDINC B., Akkuş H.  
JOURNAL OF THE KOREAN PHYSICAL SOCIETY, vol.63, no.11, pp.2133-2137, 2013 (SCI-Expanded)
- XXXI. **Critical behaviour of the dielectric constant for the smectic AC\* transition under the electric field in ferroelectric liquid crystals**  
Yurtseven H., Kilit E.  
PHYSICS AND CHEMISTRY OF LIQUIDS, vol.50, no.3, pp.367-377, 2012 (SCI-Expanded)

- XXXII. **A First-Order Transition of the Smectic A-Smectic C\* in Ferroelectric Liquid Crystals**  
Kilit E., Yurtseven H.  
FERROELECTRICS, vol.427, pp.137-142, 2012 (SCI-Expanded)
- XXXIII. **Calculation of the Dielectric Constant as a Function of Temperature Close to the Smectic A-Smectic B Transition in B5 Using the Mean Field Model**  
Yurtseven H., Kilit E.  
ADVANCES IN CONDENSED MATTER PHYSICS, vol.2012, 2012 (SCI-Expanded)
- XXXIV. **Critical Behavior of the Dielectric Susceptibility for the Ferroelectric Liquid A7**  
Yurtseven H., Kilit E.  
JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION, vol.32, no.2, pp.86-91, 2011 (SCI-Expanded)
- XXXV. **Analysis of the specific heat of p-azoxyanisole (PAA) near the phase transitions**  
Kilit E., Yurtseven H.  
PHYSICS AND CHEMISTRY OF LIQUIDS, vol.48, no.4, pp.450-460, 2010 (SCI-Expanded)
- XXXVI. **Calculation of volume as functions of temperature and pressure in Ice I close to the melting point.**  
Doğan E., Yurtseven H. H.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.24, no.19, pp.3749-3758, 2010 (SCI-Expanded)
- XXXVII. **Calculation of the compressibility and heat capacity of ice I in the pre-melting region.**  
Yurtseven H. H., Doğan E.  
PHYSICS AND CHEMISTRY OF LIQUIDS, vol.47, no.5, pp.495-504, 2009 (SCI-Expanded)
- XXXVIII. **Temperature dependence of the specific heat of anisaldazine close to phase transitions**  
Doğan E., Yurtseven H. H.  
JOURNAL OF MOLECULAR LIQUIDS, vol.140, no.1, pp.84-86, 2008 (SCI-Expanded)
- XXXIX. **Temperature dependence of the thermal expansivity and the specific heat near the nematic-isotropic (NI) phase transition in PAA.**  
Doğan E., Yurtseven H. H.  
JOURNAL OF MOLECULAR LIQUIDS, vol.138, no.1, pp.84-87, 2008 (SCI-Expanded)
- XL. **?-Phase transitions in Ice Ih near the melting point.**  
Yurtseven H. H., Doğan E., Salihoglu S., İlgin Ö. T., Akkök B., Akn F., Durmaz S.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.194, no.7, pp.913-923, 2007 (SCI-Expanded)
- XLI. **Tricritical behavior of the smectic-hexatic phase transitions in binary mixtures using the Landau mean field theory**  
YURTSEVEN H. H., Kilit Doğan E.  
Phase Transitions, vol.96, no.6, pp.383-399, 1 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Investigation of some physical properties of CoAsS crystal under pressure**  
Kilit Doğan E., Arslanbaş F.  
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.26, no.2, pp.102-113, 2021 (Peer-Reviewed Journal)
- II. **Structural Electronic and Dynamic Properties of Li<sub>3</sub>Pb**  
Erden Gülebağlan S., Doğan E.  
International Scientific and Vocational Studies Journal, vol.4, no.1, pp.31-36, 2020 (Peer-Reviewed Journal)
- III. **Investigation of Structural, Electronic, Optic and Elastic Properties of Perovskite RbGeCl<sub>3</sub> Crystal: A First Principles Study**  
Erdinc F., Kilit Dogan E., Akkuş H.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.32, no.3, pp.1008-1019, 2019 (ESCI)
- IV. **Analysis of the Raman Frequency as an Order Parameter Close to the Melting Point in Biphenyl**  
Yurtseven H. H., Doğan E.  
Bioequivalence & Bioavailability International Journal, vol.1, no.1, pp.1-5, 2017 (Peer-Reviewed Journal)
- V. **First-principles study on electronic, optic, elastic, dynamic and thermodynamic properties of RbH**

## compound

Akkuş H., Erdinç B., Doğan E., Seçuk M. N., Aycibin M., Erden Gülebağlan S.

Int. J. Simul. Multisci. Des. Optim., vol.6, pp.1-6, 2015 (Peer-Reviewed Journal)

- VI. **Ab-initio calculations of physical properties of alkali chloride XCl (X=K, Rb and Li) under pressure**  
Erdinc B., Secuk M. N., Aycibin M., GÜLEBAGAN S. E., Dogan E., Akkuş H.  
Computational Condensed Matter, vol.4, pp.6-12, 2015 (ESCI)
- VII. **Ab-initio Calculations of Structural, Electronic, Optical, Dynamic and Thermodynamic Properties of HgTe and HgSe**  
Erdinç B., Doğan E., Seçuk M. N., Aycibin M., Erden Gülebağlan S., Akkuş H.  
American Journal of Condensed Matter Physics, vol.4, no.1, pp.13-19, 2014 (Peer-Reviewed Journal)
- VIII. **The Bowling Parameters of Ca?Mg1-?O Ternary Alloys**  
Erdinç B., Doğan E., Seçuk M. N., Aycibin M., Erden Gülebağlan S., Akkuş H.  
Journal of Modern Physics, vol.5, no.15, pp.1546-1551, 2014 (Peer-Reviewed Journal)
- IX. **Calculation of electronic band structure of ferroelectric semiconductor bismuth niobium oxyfluoride (Bi2NbO5F) crystal**  
Erdinc B., MCCABE E., DURAN D., Secuk M. N., Gulebaglan S., Dogan E., Aycibin M., Akkuş H.  
Gazi University Journal of Science, vol.27, no.4, pp.1099-1103, 2014 (Scopus)
- X. **Theoretical study of rhombohedral NaCaF3 crystal in the predicted ferroelectric phase**  
Erdinc B., Aycibin M., Secuk M., Gulebaglan S., Doğan E., Akkuş H.  
Gazi University Journal of Science, vol.27, no.4, pp.1093-1097, 2014 (Scopus)
- XI. **Ab Initio Calculation of Physical Properties of Sodium Chloride**  
Doğan E., Seçuk M. N., ERDINC B., Soyalp F., Akkuş H.  
MATERIALS FOCUS, vol.2, no.5, pp.346-353, 2013 (Peer-Reviewed Journal)
- XII. **Investigation of structural, electronic and optical properties of KCdF3**  
Seçuk M. N., Doğan E., Aycibin M., Erdinç B., Akkuş H.  
American Journal of Modern Physics, vol.2, no.2, pp.77-80, 2013 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Sıvı kristaller ve moleküler kristallerde hal değişimleri**  
Yurtseven H. H., Kazancı N., Doğan E., Masalcı Ö.  
Ege Üniversitesi Yayınları, İzmir, 2014
- II. **Temperature dependence of the Dielectric Constant Calculated Using a Mean Field Model Close to the Smectic A- Isotropic Liquid Transition**  
Yurtseven H. H., Doğan E.  
in: Ferroelectrics Characterization and modeling, Mickael Lallart, Editor, Intech, Rijeka, pp.437-448, 2011

## Refereed Congress / Symposium Publications in Proceedings

- I. **Structural, dynamic and termodynamic properties of CsPbBr3 compoudin cubic perovskites via first principles**  
Erden Gülebağlan S., Akkuş H., Erdinç B., Doğan E., Seçuk M. N., Aycibin M.  
2. International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.156
- II. **Structural and electronic properties of AxD1-xByC1-y quaternary alloys via first principles**  
Erden Gülebağlan S., Erdinç B., Doğan E., Akkuş H., Seçuk M. N., Aycibin M.  
2. International Conference on Pure and Applied Mathematics, Van, Turkey, pp.155
- III. **Structural, elastic properties of BiTeI crystal**  
Seçuk M. N., Biçer R. E., Erden Gülebağlan S., Erdinç B., Doğan E., Akkuş H., Aycibin M.  
2. International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.161

- IV. **AB INITIO YÖNTEMLERLE AsPpT KRİSTALİNİN YAPISAL, ELEKTRONİK VE OPTİK ÖZELLİKLERİNİN İNCELENMESİ**  
Doğan E., Erden Gülebağlan S.  
Çukurova 3. Uluslararası Yenilikçi Bilimsel Araştırmalar Kongresi, Adana, Turkey, 3 - 06 October 2019, pp.181-189
- V. **SİRh KÜBİK KRİSTALİNİN YAPISAL VE ELEKTRONİK ÖZELLİKLERİNİN FARKLI BASINÇLAR ALTINDA YOĞUNLUK FONKSİYONELİ TEORİSİ İLE İNCELENMESİ**  
Doğan E., Erden Gülebağlan S.  
Çukurova 3. Uluslararası Yenilikçi Bilimsel Araştırmalar Kongresi, Adana, Turkey, 3 - 06 October 2019, pp.190-196
- VI. **YOĞUNLUK FONKSİYONELİ TEORİSİ İLE SrSiPt KRİSTALİNİN YAPISAL, ELEKTRONİK VE ELASTİK ÖZELLİKLERİNİN İNCELENMESİ**  
Doğan E.  
Çukurova 3. Uluslararası Yenilikçi Bilimsel Araştırmalar Kongresi, Adana, Turkey, 3 - 06 October 2019, pp.197-203
- VII. **Structural Electronic and Dynamic Properties of Li3Bi and Li2NaBi Cubic Structures**  
Erden Gülebağlan S., Doğan E.  
III. International Scientific and Vocational Studies Congress-Science and Health, Nevşehir, Turkey, 27 - 29 June 2019, pp.49
- VIII. **BaGePt KRİSTALİNİN YAPISAL, ELEKTRONİK VE ELASTİK ÖZELLİKLERİNİN YOĞUNLUK FONKSİYONELİ TEORİSİ İLE İNCELENMESİ**  
Doğan E., Arslanbaş F., Erden Gülebağlan S.  
Munzur I. Uluslararası Uygulamalı Bilimler Kongresi, Tunceli, Turkey, 24 - 26 May 2019, pp.65-66
- IX. **YOĞUNLUK FONKSİYONELİ TEORİSİ İLE TaCu3Se4 KRİSTALİNİN FİZİKSEL ÖZELLİKLERİNİN İNCELENMESİ**  
Doğan E., Doru F., Erden Gülebağlan S.  
Munzur I. Uluslararası Uygulamalı Bilimler Kongresi, Tunceli, Turkey, 24 - 26 May 2019, pp.67-68
- X. **Yoğunluk Fonksiyoneli Teorisi ile NiAs2 Kristalinin Yapısal, Elektronik, Elastik Özelliklerinin İncelenmesi**  
Doğan E., İlgin S., Erden Gülebağlan S.  
Anadolu II. Uluslararası Uygulamalı Bilimler Kongresi, Diyarbakır, Turkey, 26 - 28 April 2019, pp.51-52
- XI. **CoAsS KRİSTALİNİN YAPISAL, ELEKTRONİK VE OPTİK ÖZELLİKLERİNİN FARKLI BASINÇLAR ALTINDA YOĞUNLUK FONKSİYONELİ TEORİSİ İLE İNCELENMESİ**  
Doğan E., Arslanbaş F., Erden Gülebağlan S.  
Anadolu II. Uluslararası Uygulamalı Bilimler Kongresi, Diyarbakır, Turkey, 26 - 28 April 2019, pp.53-54
- XII. **STRUCTURAL, ELECTRONICS, OPTICAL, ELASTICAL AND PHOTON SHIELDING PROPERTIES OF RbGeCl3**  
Doğan E., Erden Gülebağlan S., Oto B.  
TURKISH PHYSICAL SOCIETY 33. International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.343
- XIII. **ELECTROMAGNETIC RADIATION ATTENUATION PROPERTIES OF SOME ALLOYS**  
Oto B., Erden Gülebağlan S., Doğan E.  
TURKISH PHYSICAL SOCIETY 33. International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.703
- XIV. **STRUCTURAL, ELECTRONICS AND SHIELDING PROPERTIES OF TERNARY SrXMg1-xO ALLOYS**  
Erden Gülebağlan S., Doğan E., Oto B.  
TURKISH PHYSICAL SOCIETY 33. International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.343
- XV. **SOME PROPERTIES OF THE TERNARY PtXGa1-xN ALLOYS**  
Erden Gülebağlan S., Oto B., Doğan E.  
TURKISH PHYSICAL SOCIETY 33. International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.639
- XVI. **INVESTIGATION ON SOME PHYSICAL PROPERTIES AND PHOTON SHIELDING CHARACTERISTICS OF NdRhO3**  
Doğan E., Oto B., Erden Gülebağlan S.  
TURKISH PHYSICAL SOCIETY 33. International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.621
- XVII. **Some Properties of The Ternary PtXGa1-xN**  
Erden Gülebağlan S., Oto B., Doğan E.  
33. International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.639

- XVIII. THE CALCULATION OF SOME PHOTON SHIELDING PARAMETERS FOR RbH and RbAu BINARY COMPOUNDS**  
Oto B., Doğan E., Erden Gülebağlan S.  
TURKISH PHYSICAL SOCIETY 33. International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.714
- XIX. Structural, elastic and thermodynamic properties of hexagonal BiTeBr crystal**  
Seçuk M. N., Biçer R. E., Akkuş H., Erdinç B., Aycibin M., Doğan E., GÜLEBAGAN S. E.  
International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.160
- XX. Ab initio calculation of physical properties of RbGeCl<sub>3</sub>**  
ERDİNC F., Doğan E., Seçuk M. N., Erdinç B., Aycibin M., GÜLEBAGAN S. E., Akkuş H.  
International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.153
- XXI. First principle calculation of electroinic band structure of LuRhO<sub>3</sub> compound**  
Kaval M., Seçuk M. N., Erdinç B., Aycibin M., Doğan E., GÜLEBAGAN S. E., Akkuş H.  
International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.157
- XXII. Ab initio investigation of the physical properties of perovskite RbCdBr<sub>3</sub> structure**  
DEDE M., Erdinç B., Aycibin M., Seçuk M. N., GÜLEBAGAN S. E., Doğan E., Akkuş H.  
International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.151
- XXIII. Structural, dynamic and optical properties of double-layer hexagonal BiTeCl crystal**  
Seçuk M. N., Akkuş H., Erdinç B., Gülebağlan S. E., Aycibin M., Doğan E.  
International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.159
- XXIV. Structural, elastic properties of BiTeI crystal**  
Seçuk M. N., Biçer R. E., Akkuş H., Erdinç B., Aycibin M., Doğan E., GULEBAGLAN S. E.  
International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.161
- XXV. Structural and electronic properties of AxD<sub>1</sub>-xByC<sub>1</sub>-y quaternary alloys via first principles.**  
Erden Gülebağlan S., Doğan E., Seçuk M. N., Aycibin M., Erdinç B., Akkuş H.  
International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.155
- XXVI. Dynamic and Thermodynamic Properties of Rubidium Hydride**  
Seçuk M. N., Erden Gülebağlan S., Aycibin M., Doğan E., Erdinç B., Akkuş H.  
XIth CHEMICAL PHYSICS CONGRESS, İstanbul, Turkey, 17 - 18 October 2014, pp.24
- XXVII. Dynamic and Thermodynamic Properties Properties of RbH**  
Seçuk M. N., Erden Gülebağlan S., Aycibin M., Doğan E., Erdinç B., Akkuş H.  
11. Kimyasal Fizik Kongresi, İstanbul, Turkey, 17 - 18 October 2014, vol.-, no.1, pp.24
- XXVIII. Physical Properties of Ferroelctric Bi<sub>2</sub>NbO<sub>5</sub>F**  
Duran D., Erdinç B., Seçuk M. N., Doğan E., Erden Gülebağlan S., Aycibin M., Akkuş H.  
I. Ulusal Hesaplamalı Kimya Çalıştayı, Van, Turkey, 29 - 31 May 2014
- XXIX. First-Principles Study on Structural, Electronic, Optic and Elastic Properties of RbH**  
Seçuk M. N., Erden Gülebağlan S., Aycibin M., Doğan E., Erdinç B., Akkuş H.  
I. Ulusal Hesaplamalı Kimya Çalıştayı, Van, Turkey, 29 - 30 May 2014, vol.-, no.1, pp.13
- XXX. Physical Properties of Ferroelectric Bi<sub>2</sub>NbO<sub>5</sub>F Structure**  
DURAN D., Erdinç B., Aycibin M., Seçuk M. N., Erden Gülebağlan S., Doğan E., Akkuş H.  
I. Ulusal Hesaplamalı Kimya Çalıştayı, Van, Turkey, 29 - 30 May 2014, vol.-, no.1, pp.22
- XXXI. A Role of Carbon Doping on Electronic Properties of TaC<sub>x</sub>N<sub>1-x</sub> Ternary Alloys**  
Erden Gülebağlan S., Aycibin M., Doğan E., Seçuk M. N., Erdinç B., Akkuş H.  
I. Ulusal Hesaplamalı Kimya Çalıştayı, Van, Turkey, 29 - 30 May 2014, vol.-, no.1, pp.66
- XXXII. Analysis of the Magnetization as a Function of the Magnetic Field at the Transition Temperature for La<sub>0.6</sub>Nd<sub>0.4</sub>Mn<sub>2</sub>Si<sub>2</sub>**  
Yurtseven H. H., Doğan E., EMRE B., ACET M.  
4th International Conference on Superconductivity and Magnetism (ICSM 2014), Antalya, Turkey, 27 April 2014 - 02 May 2015, vol.28, no.3, pp.873-876
- XXXIII. Electronic structure and lattice dynamics of BaCeO<sub>3</sub> compound at high temperature**  
Aycibin M., Seçuk M. N., Doğan E., Erden Gülebağlan S., Erdinç B., Akkuş H.  
10th International Conference of the Balkan Physics Union, İstanbul, Turkey, 3 - 05 September 2013, vol.-, no.1,



pp.96

- XXXIV. **Structural, thermodynamical and phonon properties of SbSI AND SbSBr single crystals**  
Doğan E., Aycibin M., Erden Gülebağlan S., Seçuk M. N., Erdinç B., Akkuş H.  
10th International Conference of the Balkan Physics Union, İstanbul, Turkey, 3 - 05 September 2013, vol.-, no.1, pp.97
- XXXV. **Physical properties of RbAu compound**  
Seçuk M. N., Aycibin M., Doğan E., Erden Gülebağlan S., Erdinç B., Akkuş H.  
10th International Conference of the Balkan Physics Union, İstanbul, Turkey, 3 - 05 September 2013, vol.-, no.1, pp.95
- XXXVI. **Structural, thermodynamical and phonon of SbSI and SbSBr single crystals**  
Seçuk M. N., Erdinç B., Doğan E., Erden Gülebağlan S., Akkuş H., Aycibin M.  
Balkan Fizik Birliği 10. Uluslararası Öğrenci Konferansı, İstanbul, Turkey, 3 - 05 September 2013
- XXXVII. **Structural, Electronic, Dynamic and Thermodynamic Properties of XAu (X=Li, Na, K) Alkali Metal Gold Compounds**  
Akkuş H., Erdinç B., Aycibin M., Seçuk M. N., Doğan E., Erden Gülebağlan S.  
30. Uluslararası Fizik Kongresi, Muğla, Turkey, 2 - 05 September 2013
- XXXVIII. **Ab initio studies of the electronic structure, optical, dynamic and thermodynamic properties of CsCl**  
BİNGÖL S., Seçuk M. N., Erdinç B., Akkuş H., Aycibin M., Doğan E. K.  
Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, vol.-, no.1, pp.551
- XXXIX. **Structural, electronic, dynamic and thermodynamic properties of XAu (X=Li, Na, K) alkali metal gold compounds**  
Seçuk M. N., Akkuş H., Erdinç B., Aycibin M., Doğan E., Erden Gülebağlan S., ÖZTEK H. Ö.  
Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, vol.-, no.1, pp.550
- XL. **Investigation of structural, electronic, optical, dynamic and Thermodynamic properties of HgTe, HgSe**  
Seçuk M. N., Doğan E., Aycibin M., Erden Gülebağlan S., Erdinç B., Akkuş H.  
Turkish Physical Society 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, vol.-, no.1, pp.549
- XLI. **Vibrational frequencies studied as a function of pressure in phase II of solid benzene.**  
Yurtseven H. H., Raşitoğlu B., Doğan E.  
30th European Congress on Molecular Spectroscopy, Floransa, Italy, 29 August - 03 September 2010, vol.993, pp.428-430
- XLII. **Calculation of the Dielectric Constant of a Ferroelectric Liquid Crystal From a Mean Field Model.**  
Doğan E., Yurtseven H. H.  
19th International Symposium on the Applications of Ferroelectrics- 10th European Conference on the Applications of Polar Dielectrics (isaf ecapd 2010), Edinburg, United Kingdom, 9 - 12 August 2010, vol.420, no.1, pp.56-61
- XLIII. **Analysis of the Specific Heat in the Supercooled Solid Phase of Liquid Crystals.**  
Doğan E., Yurtseven H. H.  
23rd International Liquid Crystal Conference (ILCC2010), Krakow, Poland, 11 - 16 July 2010, vol.540, no.1, pp.12-19
- XLIV. **PAA sıvı kristalinin izotropik sıvı nematik- katı faz geçişleri yakınında öz ısısının kritik davranışı.**  
Doğan E., Yurtseven H. H.  
15. Yoğun Madde Fiziği Toplantısı, Ankara, Turkey, 07 November 2008, pp.41
- XLV. **Analysis of the dielectric constant as a function of temperature close to the smectic A-isotropic liquid phase transition in DOBAMBC.**  
Yurtseven H. H., Doğan E.  
3rd International Symposium on Molecular Materials, Toulouse, France, 8 - 11 July 2008, pp.79
- XLVI. **Temperature dependence of the specific heat of cholesteryl myristate close to phase transitions.**

Yurtseven H. H., Doğan E.

Condensed Matter Physics Conference of Balkan Countries (cm-pc-bc 2008), Muğla, Turkey, 26 - 28 May 2008, vol.1, no.3, pp.597-599

- XLVII. **İzotropik sıvı-nematik-katı geçişleri yakınında anisaldazinin öz ısısının kritik davranışı**  
Doğan E., Yurtseven H. H.  
14. Yoğun Madde Fiziği Toplantısı, Ankara, Turkey, 02 November 2007, pp.49
- XLVIII. **Calculation of the Dielectric Constant as a Function of Temperature Near the Smectic AC\* Phase Transition in Ferroelectric Liquid Crystals.**  
Doğan E., Yurtseven H. H.  
11th International Conference on Ferroelectric Liquid Crystals (FLC07), Sapporo, Japan, 3 - 08 September 2007, vol.365, no.1, pp.130-138
- XLIX. **Temperature Dependence of the Polarization and Tilt Angle Under an Electric Field Close to the Smectic AC\* Phase Transition in a Ferroelectric Liquid Crystal.**  
Yurtseven H. H., Doğan E.  
11th International Conference on Ferroelectric Liquid Crystals (FLC07), Sapporo, Japan, 3 - 08 September 2007, vol.365, no.1, pp.122-129
- L. **PAA'nın nematik-izotropik (NI) faz geçişi için özısı ve ısıl genleşme hesabı.**  
Doğan E., Yurtseven H. H.  
13. Yoğun Madde Fiziği Toplantısı, Ankara, Turkey, 03 November 2006, pp.18
- LI. **Critical Behaviour of the Polarization, Tilt Angle, Electric Susceptibility and the Specific Heat Close to the SmA-Ferroelectric SmC ( SmC\*) Phase Transitions.**  
Doğan E., Yurtseven H. H.  
XVI Conference on Liquid Crystals (CLC 2005), Stare Jablonski, Poland, 18 - 23 September 2005, pp.327-344

## Scientific Refereeing

Journal of Taibah University for Science, SCI Journal, December 2019

Avrupa Teknoloji ve Bilim Dergisi, National Scientific Refreed Journal, December 2019

## Metrics

Publication: 107

Citation (WoS): 104

Citation (Scopus): 167

H-Index (WoS): 6

H-Index (Scopus): 7

## Congress and Symposium Activities

Turkish Physical Society 33rd International Physics Congress, Attendee, Muğla, Turkey, 2017

4th International Conference on Superconductivity and Magnetism (ICSM 2014), Attendee, Antalya, Turkey, 2014

17th Meeting on Condensed Matter Physics, Attendee, Ankara, Turkey, 2010

19th International Symposium on the Applications of Ferroelectrics (10th European Conference on the Applications of Polar Dielectrics), ISAF-ECAPD 2010, Attendee, Edinburgh, United Kingdom, 2010

23rd International Liquid crystal Conference , ILCC 2010, Attendee, Kraków, Poland, 2010

International Symposium on Molecular Materials, MOLMAT2008, Attendee, Toulouse, France, 2008

Condensed Matter Physics Conference of Balkan Countries, Attendee, Muğla, Turkey, 2008

14th Meeting on Condensed Matter Physics, Attendee, Turkey, 2007

11th International Conference on Ferroelectric Liquid Crystals, Attendee, Sapporo, Japan, 2007

13th Meeting on Condensed Matter Physics, Attendee, Ankara, Turkey, 2006

16th Conference on Liquid Crystals, Attendee, Poland, 2005

### **Non Academic Experience**

Università Degli Studi Di Bologna, Dipartimento Di Chimica Fisica Ed Inorganica, Bologna, Italy