

## Prof. Dr. Kemal ÖZDOĞAN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAZ-6850-2020

Yoksis Araştırmacı ID: 118113

### Eğitim Bilgileri

Doktora, Gebze Yüksek Teknoloji Enstitüsü, Fen Bilimleri, Fizik, Türkiye 2004 - 2009

Yüksek Lisans, Gebze Yüksek Teknoloji Enstitüsü, Fen Bilimleri, Fizik, Türkiye 2001 - 2004

Lisans, Karadeniz Teknik Üniversitesi, Fen Fakültesi, Fizik, Türkiye 1996 - 2000

### Araştırma Alanları

Fizik, Disiplinlerarası Fizik ve İlgili Bilim ve Teknoloji Alanları, Malzeme Bilimi, Yoğun Madde 1:Yapısal, Mekanik ve Termal Özellikler , Yoğun maddenin termal özellikleri, Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Bulk malzemenin elektronik yapısı, Elektronik yapı, arayüzeylerin, ince filmlerin ve düşük boyutlu yapıların elektrik özellikleri, Manyetik özellikler ve malzemeler, Yoğun maddede elektronik taşınım, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2017 - Devam Ediyor

### Akademik İdari Deneyim

Bölüm Başkan Yardımcısı, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2018 - 2022

### Verdiği Dersler

Doktora Seminer, Doktora, 2020 - 2021

Doktora Uzmanlık Alan, Doktora, 2019 - 2020

Uzmanlık Alan, Yüksek Lisans, 2019 - 2020

Fizik Laboratuvarı 3, Lisans, 2019 - 2020

Atom ve Molekül Fiziği Lab, Lisans, 2019 - 2020

FİZİK 2, Lisans, 2019 - 2020

Uzmanlık Alan Dersi, Yüksek Lisans, 2020 - 2021

Yüksek Lisans Uzmanlık Alan, Yüksek Lisans, 2019 - 2020

Seminer, Doktora, 2019 - 2020  
Doktora Uzmanlık Alan Dersi, Doktora, 2019 - 2020  
Modern Fizik, Lisans, 2017 - 2018  
FİZİK I (Servis Dersi Grup 3-17), Lisans, 2018 - 2019  
FİZİK 2 (Servis Dersi Grup 14), Lisans, 2017 - 2018  
Fizik I (Servis Dersi, Gr: 53), Lisans, 2017 - 2018  
Manyetik Malzemeler, Yüksek Lisans, 2016 - 2017  
FİZİK 2 (Servis Dersi Grup 11-59), Lisans, 2016 - 2017  
FİZİK I (Servis Dersi Grup 16-37-53), Lisans, 2017 - 2018  
Modern Fizik Gr1, Lisans, 2015 - 2016  
FİZİK 2 (Servis Dersi Grup 20-46), Lisans, 2014 - 2015  
FİZİK 2 (Servis Dersi Grup 20-48), Lisans, 2013 - 2014  
Fizikte Matematik Yöntemler 1, Lisans, 2014 - 2015  
FİZİK I (Servis Dersi Grup 13-62), Lisans, 2014 - 2015  
Bitirme Çalışması, Lisans, 2014 - 2015  
FİZİK I (Servis Dersi Grup 18), Lisans, 2013 - 2014  
FİZİK 2 (Servis Dersi Grup 18-21-66), Lisans, 2011 - 2012  
Fizik 2, Lisans, 2011 - 2012  
FİZİK I (Servis Dersi Grup 52), Lisans, 2011 - 2012  
Fizikte Matematik Yöntemler 1, Lisans, 2011 - 2012  
FİZİK I (Servis Dersi Grup 17), Lisans, 2011 - 2012

## Yönetilen Tezler

Özdoğan K., Bazı Manyetik Yarıiletkenlerin Elektronik ve Manyetik Özellikleri Üzerinde Sıkıştırma ve Genleşme Etkisinin İncelenmesi, Yüksek Lisans, Z.Zeki(Öğrenci), 2019  
ÖZDOĞAN K., Oksit Tabanlı Termoelektrik Malzemelerin Yoğunluk Fonksiyonel Teorisi İle İncelenmesi, Yüksek Lisans, A.AYKARA(Öğrenci), 2016

## Jüri Üyelikleri

Tez Savunma (Doktora), Tez Savunma (Doktora), Gebze Teknik Üniversitesi, Temmuz, 2016  
Tez Savunma (Doktora), Tez Savunma (Doktora), Gebze Teknik Üniversitesi, Temmuz, 2016  
Tez Savunma (Doktora), Tez Savunma (Doktora), Gebze Teknik Üniversitesi, Temmuz, 2016  
Tez Savunma (Doktora), Tez Savunma (Doktora), Gebze Teknik Üniversitesi, Haziran, 2016  
Doktora Yeterlik Sınavı, Doktora Yeterlik Sınavı, Gebze Teknik Üniversitesi, Haziran, 2015

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Synthesis, Structure, Photoluminescence, and Optical Properties of (Co/B) Co-Doped ZnO Nanoparticles**  
Arda L., Veziroglu S., ÖZDOĞAN K., Özüğurlu E.  
Particle and Particle Systems Characterization, cilt.41, sa.10, 2024 (SCI-Expanded)
- II. **DFT Insights into the Physical Properties of Layered LiMnSe<sub>2</sub> and LiMnTe<sub>2</sub> Compounds**  
Benmakhlouf A., Faid F., Ghermoul N., ÖZDOĞAN K., Helaimia T., Bouhemadou A., Galanakis I.  
Metals, cilt.14, sa.9, 2024 (SCI-Expanded)
- III. **Interplay between Structural, Electronic, and Magnetic Properties in the p0-d Semi-Heusler Compounds: The Case of Li-Based Compounds**

- ÖZDOĞAN K., Galanakis I.  
Crystals, cilt.14, sa.8, 2024 (SCI-Expanded)
- IV. **High Spin Magnetic Moments in All-3d-Metallic Co-Based Full Heusler Compounds**  
Tas M., ÖZDOĞAN K., Şaşıoğlu E., Galanakis I.  
Materials, cilt.16, sa.24, 2023 (SCI-Expanded)
- V. **Stability of spin-gapless semiconducting behavior in Ti<sub>2</sub>CoSi, Ti<sub>2</sub>MnAl, and Ti-2 VAs Hensler compounds**  
ÖZDOĞAN K., Galanakis I.  
PHYSICAL REVIEW MATERIALS, cilt.5, sa.2, 2021 (SCI-Expanded)
- VI. **Oxygen vacancies induced photoluminescence in SrZnO<sub>2</sub> nanophosphors probed by theoretical and experimental analysis**  
Manju M., Jain M., Madas S., Vashishtha P., Rajput P., Gupta G., Kahaly M. U., Özdoğan K., Vij A., Thakur A.  
SCIENTIFIC REPORTS, cilt.10, 2020 (SCI-Expanded)
- VII. **High spin polarization in all-3d-metallic Heusler compounds: the case of Fe(2)CrZ and Co(2)CrZ (Z = Sc, Ti, V)**  
ÖZDOĞAN K., Maznichenko I., Ostanin S., Sasioglu E., Ernst A., Mertig I., Galanakis I.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.52, sa.20, 2019 (SCI-Expanded)
- VIII. **Thermoelectric response of quaternary Heusler compound CrVNbZn**  
Kara H., KAHALY M. U., ÖZDOĞAN K.  
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.735, ss.950-958, 2018 (SCI-Expanded)
- IX. **Itinerant G-type antiferromagnetism in D<sub>0</sub>(3)-type V(3)Z (Z = Al, Ga, In) compounds: A first-principles study**  
Galanakis I., Tirpanci S., ÖZDOĞAN K., SASIOGLU E.  
PHYSICAL REVIEW B, cilt.94, sa.6, 2016 (SCI-Expanded)
- X. **Spin-filter and spin-gapless semiconductors: The case of Heusler compounds**  
GALANAKIS I., ÖZDOĞAN K., SASIOGLU E.  
AIP ADVANCES, cilt.6, sa.5, 2016 (SCI-Expanded)
- XI. **TEMPO-functionalized zinc phthalocyanine: synthesis, magnetic properties, and its utility for electrochemical sensing of ascorbic acid**  
KORKUT S., Akyuz D., ÖZDOĞAN K., YERLİ Y., KOCA A., ŞENER M. K.  
DALTON TRANSACTIONS, cilt.45, sa.7, ss.3086-3092, 2016 (SCI-Expanded)
- XII. **Ab-initio investigation of electronic and magnetic properties of the 18-valence-electron fully-compensated ferrimagnetic (CrV)XZ Heusler compounds: A prototype for spin-filter materials**  
ÖZDOĞAN K., SASIOGLU E., Galanakis I.  
COMPUTATIONAL MATERIALS SCIENCE, cilt.110, ss.77-82, 2015 (SCI-Expanded)
- XIII. **Void-driven breakdown of the local-symmetry and Slater-Pauling rule in half-metallic Heusler compounds**  
Galanakis I., Sasioglu E., Bluegel S., ÖZDOĞAN K.  
PHYSICAL REVIEW B, cilt.90, sa.6, 2014 (SCI-Expanded)
- XIV. **Effect of disorder on the magnetic properties of cubic Mn<sub>2</sub>RuXGa compounds: A first-principles study**  
Galanakis I., ÖZDOĞAN K., Sasioglu E., Bluegel S.  
JOURNAL OF APPLIED PHYSICS, cilt.116, sa.3, 2014 (SCI-Expanded)
- XV. **Conditions for spin-gapless semiconducting behavior in Mn<sub>2</sub>CoAl inverse Heusler compound**  
Galanakis I., ÖZDOĞAN K., Sasioglu E., Bluegel S.  
JOURNAL OF APPLIED PHYSICS, cilt.115, sa.9, 2014 (SCI-Expanded)
- XVI. **High-T-C fully compensated ferrimagnetic semiconductors as spin-filter materials: the case of CrVXAl (X = Ti, Zr, Hf) Heusler compounds**  
Galanakis I., ÖZDOĞAN K., Sasioglu E.  
JOURNAL OF PHYSICS-CONDENSED MATTER, cilt.26, sa.8, 2014 (SCI-Expanded)
- XVII. **A proposal for an alternative class of spin filter materials: Hybridization-induced high-T-C**

- ferromagnetic semiconductors CoVXAl (X = Ti, Zr, Hf)**  
 Galanakis I., ÖZDOĞAN K., Sasioglu E.  
 APPLIED PHYSICS LETTERS, cilt.103, sa.14, 2013 (SCI-Expanded)
- XVIII. Slater-Pauling behavior in LiMgPdSn-type multifunctional quaternary Heusler materials: Half-metallicity, spin-gapless and magnetic semiconductors**  
 ÖZDOĞAN K., SASIOGLU E., Galanakis I.  
 JOURNAL OF APPLIED PHYSICS, cilt.113, sa.19, 2013 (SCI-Expanded)
- XIX. Generalized Slater-Pauling rule for the inverse Heusler compounds**  
 Skaftouros S., ÖZDOĞAN K., Sasioglu E., Galanakis I.  
 PHYSICAL REVIEW B, cilt.87, sa.2, 2013 (SCI-Expanded)
- XX. Search for spin gapless semiconductors: The case of inverse Heusler compounds**  
 Skaftouros S., ÖZDOĞAN K., Sasioglu E., Galanakis I.  
 APPLIED PHYSICS LETTERS, cilt.102, sa.2, 2013 (SCI-Expanded)
- XXI. Half-metallic perovskite superlattices with colossal thermoelectric figure of merit**  
 Kahaly M. U., Ozdogan K., Schwingenschloegl U.  
 JOURNAL OF MATERIALS CHEMISTRY A, cilt.1, sa.29, ss.8406-8410, 2013 (SCI-Expanded)
- XXII. Half-metallic antiferromagnetism in Cr<sub>2+x</sub>Se (0 ≤ x ≤ 1): A first-principles study**  
 Galanakis I., ÖZDOĞAN K., Sasioglu E.  
 PHYSICAL REVIEW B, cilt.86, sa.13, 2012 (SCI-Expanded)
- XXIII. Robustness and stability of half-metallic ferromagnetism in alkaline-earth metal mononitrides against doping and deformation**  
 ÖZDOĞAN K., SASIOGLU E., Galanakis I.  
 JOURNAL OF APPLIED PHYSICS, cilt.111, sa.11, 2012 (SCI-Expanded)
- XXIV. Anomalous enhancement of the thermoelectric figure of merit by V co-doping of Nb-SrTiO<sub>3</sub>**  
 Ozdogan K., KAHALY M. U., ALSHAREEF H. N., SCHWINGENSCHLOEGL U.  
 APPLIED PHYSICS LETTERS, cilt.100, sa.19, 2012 (SCI-Expanded)
- XXV. Influence of the annealing atmosphere on structural, optical and magnetic properties of Co-doped ZnO microrods**  
 Aksu S., BACAŞIZ E., YILMAZ Ş., POLAT İ., Altunbas M., Turksoy M., Topkaya R., ÖZDOĞAN K.  
 PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, cilt.44, ss.1244-1249, 2012 (SCI-Expanded)
- XXVI. Enhanced carrier density in Nb-doped SrTiO<sub>3</sub> thermoelectrics**  
 Ozdogan K., KAHALY M. U., KUMAR S. R. S., ALSHAREEF H. N., SCHWINGENSCHLOEGL U.  
 JOURNAL OF APPLIED PHYSICS, cilt.111, sa.5, 2012 (SCI-Expanded)
- XXVII. Structural, optical and magnetic properties of Mn diffusion-doped CdS thin films prepared by vacuum evaporation**  
 Aksu S., BACAŞIZ E., PARLAK M., YILMAZ Ş., POLAT İ., Altunbas M., Turksoy M., Topkaya R., ÖZDOĞAN K.  
 MATERIALS CHEMISTRY AND PHYSICS, cilt.130, ss.340-345, 2011 (SCI-Expanded)
- XXVIII. Effect of order on the half-metallic gap in Heusler compounds**  
 ÖZDOĞAN K., Galanakis I.  
 JOURNAL OF APPLIED PHYSICS, cilt.110, sa.7, 2011 (SCI-Expanded)
- XXIX. Violation of Hund's third rule in structurally disordered ferromagnets**  
 Kapaklis V., Korelis P. T., Hjorvarsson B., Vlachos A., Galanakis I., Pouloupoulos P., ÖZDOĞAN K., Angelakeris M., Wilhelm F., Rogalev A.  
 PHYSICAL REVIEW B, cilt.84, sa.2, 2011 (SCI-Expanded)
- XXX. Half-metallic ferrimagnetism in the [Sc<sub>1-x</sub>V<sub>x</sub>]C and [Sc<sub>1-x</sub>V<sub>x</sub>]Si alloys adopting the zincblende and wurtzite structures from first-principles**  
 Oezdogan K., SASIOGLU E., Galanakis I.  
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.322, sa.1, ss.46-50, 2010 (SCI-Expanded)
- XXXI. First-principles electronic and magnetic properties of the half-metallic antiferromagnet Cr<sub>2</sub>MnSb**  
 Ozdogan K., Galanakis I.  
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.321, sa.15, 2009 (SCI-Expanded)

- XXXII. **Optimizing the hydrogen storage in boron nitride nanotubes by defect engineering**  
Ozdogan K., Berber S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.34, sa.12, ss.5213-5217, 2009 (SCI-Expanded)
- XXXIII. **Tuning the magnetic properties of half-metallic semi-Heusler alloys by sp-electron substitution: the case of AuMnSn<sub>1-x</sub>Sb<sub>x</sub> quaternary alloys**  
Ozdogan K., SASIOGLU E., Galanakis I.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.42, sa.8, 2009 (SCI-Expanded)
- XXXIV. **Ab initio electronic and magnetic properties of half-metallic NiCrSi and NiMnSi Heusler alloys: The role of defects and interfaces**  
Galanakis I., Ozdogan K., SASIOGLU E.  
JOURNAL OF APPLIED PHYSICS, cilt.104, sa.8, 2008 (SCI-Expanded)
- XXXV. **Magnetic phase transition in half-metallic CoMnSb and NiMnSb semi-Heusler alloys upon Cu doping: First-principles calculations**  
Galanakis I., Sasioglu E., Oezdogan K.  
PHYSICAL REVIEW B, cilt.77, sa.21, 2008 (SCI-Expanded)
- XXXVI. **Ferrimagnetism and antiferromagnetism in half-metallic Heusler alloys**  
Galanakis I., Ozdogan K., Sasioglu E., Aktas B.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, cilt.205, sa.5, ss.1036-1039, 2008 (SCI-Expanded)
- XXXVII. **Role of the presence of transition-metal atoms at the antisites in CrAs, CrSe and VAs zinc-blende compounds**  
Oezdogan K., Galanakis I., SASIOGLU E., Aktas B.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.320, ss.197-203, 2008 (SCI-Expanded)
- XXXVIII. **Engineering the electronic, magnetic, and gap-related properties of the quaternary half-metallic Heusler alloys**  
Ozdogan K., SASIOGLU E., Galanakis I.  
JOURNAL OF APPLIED PHYSICS, cilt.103, sa.2, 2008 (SCI-Expanded)
- XXXIX. **Vacancy-induced minority-spin states in half-metallic Heusler alloys**  
Oezdogan K., SASIOGLU E., GALANAKIS I.  
PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS, cilt.1, sa.5, ss.184-186, 2007 (SCI-Expanded)
- XL. **EPR of VO<sub>2</sub><sup>+</sup> in double format, Ba<sub>2</sub>Zn(HCOO)(6)(H<sub>2</sub>O)(4) single crystals**  
Yerli Y., Zerentuerk A., Oezdogan K.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.68, sa.1, ss.147-149, 2007 (SCI-Expanded)
- XLI. **Magnetic anisotropies in ultrathin iron films grown on the surface-reconstructed GaAs substrate**  
Aktas B., Heinrich B., Woltersdorf G., Urban R., Tagirov L. R., Yildiz F., Oezdogan K., Oezdemir M., Yalcin O., Rameev B. Z.  
JOURNAL OF APPLIED PHYSICS, cilt.102, sa.1, 2007 (SCI-Expanded)
- XLII. **Defects-driven appearance of half-metallic ferrimagnetism in Co-Mn-based Heusler alloys**  
Ozdogan K., GALANAKIS I., SASIOGLU E., AKTAS B.  
SOLID STATE COMMUNICATIONS, cilt.142, sa.9, ss.492-497, 2007 (SCI-Expanded)
- XLIII. **Ab initio design of half-metallic fully compensated ferrimagnets: The case of Cr(2)MnZ (Z=P, As, Sb, and Bi)**  
Galanakis I., Ozdogan K., Sasioglu E., Aktas B.  
PHYSICAL REVIEW B, cilt.75, sa.17, 2007 (SCI-Expanded)
- XLIV. **Defect-induced ferrimagnetism in the half-metallic Co<sub>2</sub>CrAl and Co<sub>2</sub>CrSi compounds**  
Ozdogan K., GALANAKIS I., SASIOGLU E., AKTAS B.  
PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS, cilt.1, sa.3, ss.95-97, 2007 (SCI-Expanded)
- XLV. **Influence of mixing the low-valent transition metal atoms (Y, Y\*=Cr, Mn, Fe) on the properties of the quaternary Co-2[Y<sub>1-x</sub>Y<sub>x</sub>]\*Z (Z=Al, Ga, Si, Ge, or Sn) Heusler compounds**  
Ozdogan K., AKTAS B., GALANAKIS I., SASIOGLU E.

- JOURNAL OF APPLIED PHYSICS, cilt.101, sa.7, 2007 (SCI-Expanded)
- XLVI. **Doping of Mn<sub>2</sub>VAl and Mn<sub>2</sub>VSi Heusler alloys as a route to half-metallic antiferromagnetism**  
Galanakis I., Ozdogan K., Sasioglu E., Aktas B.  
PHYSICAL REVIEW B, cilt.75, sa.9, 2007 (SCI-Expanded)
- XLVII. **Doping and disorder in the Co<sub>2</sub>MnAl and Co<sub>2</sub>MnGa half-metallic Heusler alloys**  
Ozdogan K., Sasioglu E., Aktas B., Galanakis I.  
PHYSICAL REVIEW B, cilt.74, sa.17, 2006 (SCI-Expanded)
- XLVIII. **Defects in CrAs and related compounds as a route to half-metallic ferrimagnetism**  
Galanakis I., Ozdogan K., Sasioglu E., Aktas B.  
PHYSICAL REVIEW B, cilt.74, sa.14, 2006 (SCI-Expanded)
- XLIX. **Effect of doping and disorder on the half metallicity of full Heusler alloys**  
Galanakis I., Ozdogan K., Aktas B., Sasioglu E.  
APPLIED PHYSICS LETTERS, cilt.89, sa.4, 2006 (SCI-Expanded)
- L. **Search for half-metallic ferrimagnetism in V-based heusler alloys Mn(2)VZ (Z = Al, Ga, In, Si, Ge, Sn)**  
Ozdogan K., Galanakis I., Sasioglu E., Aktas B.  
JOURNAL OF PHYSICS-CONDENSED MATTER, cilt.18, sa.10, ss.2905-2914, 2006 (SCI-Expanded)

### **Diğer Dergilerde Yayınlanan Makaleler**

- I. **First-principles computed electronic and magnetic properties of zincblende alkaline-earth pnictides**  
Özdoğan K., Galanakis I.  
Journal of Advanced Physics, cilt.1, sa.1, ss.69-77, 2012 (Hakemli Dergi)

### **Kitap & Kitap Bölümleri**

- I. **Fundamentals of half-metallic Full-Heusler alloys "Spintronics: Materials and Applications**  
Özdoğan K., Galanakis I., Şaşıoğlu E.  
Spintronics Materials Applications and Devices, , Editör, NOVA Science Publishers Inc. , New-York, ss.213-226, 2009
- II. **Role of Defects and Disorder in the Half-Metallic Full-Heusler Compounds**  
Özdoğan K., Galanakis I., Sasioglu E.  
Advances in Nanoscale Magnetism, B. Aktas,F. Mikailov, Editör, Springer-Verlag , Berlin, ss.1-16, 2008
- III. **Magnetic anisotropies in ultra-thin iron films grown on the surface-reconstructed GaAs substrate**  
Özdoğan K., Aktas B., Heinrich B., Woltersdorf G., Urban R., Tagirov L. R., Yıldız F., Özdemir M., Yalçın O., Rameev B.  
Magnetic Nanostructures, B. Aktas,L. R. Tagirov,and F. Mikailov, Editör, Springer-Verlag , Berlin, ss.167-184, 2007
- IV. **Magnetic anisotropies in the ultra-thin iron film grown on the GaAs substrate**  
Özdoğan K., Aktas B., Heinrich B., Woltersdorf G., Urban R., Tagirov L. R., Yıldız F., Özdemir M., Yalçın O.  
Nanostructured Magnetic Materials and their Applications, B.Aktas,L.Tagirov,F.Mikailov, Editör, Kluwer Academic Publishers, Amsterdam, ss.213-227, 2004

### **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Investigation of Thermoelectric Properties of FeVTiAl Heusler Alloy for Sustainable Energy Research**  
KARA H., ÖZDOĞAN K.  
3rd International Conference on Advances in Mechanical Engineering, Konya, Türkiye, 19 - 21 Aralık 2017
- II. **Material Prediction for Heat Management by Computational Method: The Evaluation of CoFeMnSi Half-Metallic Ferromagnet**  
KARA H., ÖZDOĞAN K.  
3rd International Conference on Advances in Mechanical Engineering, Konya, Türkiye, 19 - 21 Aralık 2017

- III. **Importance of Power Factor on Defining Energy Conversion Efficiency of CoFeCrAs Alloy in Thermoelectric Material Research**  
KARA H., ÖZDOĞAN K.  
3rd International Conference on Advances in Mechanical Engineering, Konya, Türkiye, 19 Kasım - 21 Aralık 2017
- IV. **A first-principles study on the effect of lattice parameter and atomic order on magnetic and electronic properties of quaternary Heusler alloys CrV(Ti,Zr,Hf)Al**  
Tanrıverdi Z. Z., ÖZDOĞAN K.  
International Advanced Researches and Engineering Congress 2017 (IAREC' 17), 16 - 18 Kasım 2017
- V. **Energy Conversion Efficiency for Renewable Waste Heat in Dynamic Electric Form: Full-Heusler Co<sub>2</sub>TiAl Material**  
KARA H., ÖZDOĞAN K.  
5th International Symposium on Development of KOP Region, Konya, Türkiye, 26 - 28 Ekim 2017
- VI. **Thermopower Effect on Thermoelectric Renewable Energy Research: Ferromagnetic Co<sub>2</sub>ScGe Compound**  
KARA H., ÖZDOĞAN K.  
5th International Symposium on Development of KOP Region, Konya, Türkiye, 26 - 28 Ekim 2017
- VII. **Computational Thermoelectric Study of Experimentally Synthesized Half-Metallic Co<sub>2</sub>TiGe Alloy for Solar-Thermal Electric Technologies**  
KARA H., ÖZDOĞAN K.  
5th International Symposium on Development of KOP Region, Konya, Türkiye, 26 - 28 Ekim 2017
- VIII. **Consideration of Co<sub>2</sub>VGe Heusler Alloy for Next Generation Energy Materials Using Free Heat as an Electrical Source**  
KARA H., ÖZDOĞAN K.  
5th International Symposium on Development of KOP Region, Konya, Türkiye, 26 - 28 Ekim 2017
- IX. **Evaluation of Thermopower on Co<sub>2</sub>MnGe Heusler Alloy for Thermoelectric Renewable Energy Systems**  
KARA H., ÖZDOĞAN K.  
4th International TURK-PAK Conference on Chemical Sciences, Konya, Türkiye, 26 - 28 Ekim 2017
- X. **Transport Properties in Ferromagnetic Co<sub>2</sub>MnSi for Future Thermoelectric Energy Materials**  
KARA H., ÖZDOĞAN K.  
4th International TURK-PAK Conference on Chemical Sciences, Konya, Türkiye, 26 - 28 Ekim 2017
- XI. **Searching Magnetic Phase, Electronic Structure and Thermoelectric Properties of Ti<sub>2</sub>MnAl Heusler Material**  
KARA H., ÖZDOĞAN K.  
24. WIEN2k Workshop, Viyana, Avusturya, 18 - 22 Eylül 2017
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Yayın: 96  
Atf (WoS): 2383  
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## **Akademi Dışı Deneyim**

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