

Prof. Kemal ÖZDOĞAN

Personal Information

Office Phone: [+90 212 383 4282](tel:+902123834282)

Web: <https://avesis.yildiz.edu.tr/kozdogan>

Post Address: Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi Fizik Bölümü E-1007 Davutpaşa Kampüsü Esenler/İSTANBUL

Education Information

Doctorate, Gebze Yüksek Teknoloji Enstitüsü, Fen Bilimleri, Fizik, Turkey 2004 - 2009

Post Graduate, Gebze Yüksek Teknoloji Enstitüsü, Fen Bilimleri, Fizik, Turkey 2001 - 2004

Under Graduate, Karadeniz Technical University, School of Foreign Languages, Department of Modern Languages, Turkey 1996 - 2000

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Thermal Properties of Condensed Matter, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electronic structure of bulk material, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Magnetic Properties and Materials, Electronic transport in condensed matter, Natural Sciences

Professional Experience

Deputy Head of Department, Yıldız Technical University, Faculty of Arts & Science, Department of Physics, 2018 - Continues

Courses

Modern Fizik, Under Graduate, 2017 - 2018

FİZİK I (Servis Dersi Grup 3-17), Under Graduate, 2018 - 2019

FİZİK 2 (Servis Dersi Grup 14), Under Graduate, 2017 - 2018

Fizik I (Servis Dersi, Gr: 53), Under Graduate, 2017 - 2018

Manyetik Malzemeler, Post Graduate, 2016 - 2017

FİZİK 2 (Servis Dersi Grup 11-59), Under Graduate, 2016 - 2017

FİZİK I (Servis Dersi Grup 16-37-53), Under Graduate, 2017 - 2018

Modern Fizik Gr1, Under Graduate, 2015 - 2016

FİZİK 2 (Servis Dersi Grup 20-46), Under Graduate, 2014 - 2015

FİZİK 2 (Servis Dersi Grup 20-48), Under Graduate, 2013 - 2014

Fizikte Matematik Yöntemler 1, Under Graduate, 2014 - 2015

FİZİK I (Servis Dersi Grup 13-62), Under Graduate, 2014 - 2015

Bitirme Çalışması, Under Graduate, 2014 - 2015

FİZİK I (Servis Dersi Grup 18), Under Graduate, 2013 - 2014

FİZİK 2 (Servis Dersi Grup 18-21-66), Under Graduate, 2011 - 2012

Under Graduate, 2011 - 2012

FİZİK I (Servis Dersi Grup 52), Under Graduate, 2011 - 2012

Fizikte Matematik Yöntemler 1, Under Graduate, 2011 - 2012

FİZİK I (Servis Dersi Grup 17), Under Graduate, 2011 - 2012

Advising Theses

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

Jury Memberships

Doctorate, Doctorate, Gebze Teknik Üniversitesi, July, 2016
Doctorate, Doctorate, Gebze Teknik Üniversitesi, July, 2016
Doctorate, Doctorate, Gebze Teknik Üniversitesi, July, 2016
Doctorate, Doctorate, Gebze Teknik Üniversitesi, June, 2016
Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, June, 2015

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **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, vol.52, 2019 (Journal Indexed in SCI)
- **Thermoelectric response of quaternary Heusler compound CrVNbZn**
Kara H., KAHALY M. U. , ÖZDOĞAN K.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.735, pp.950-958, 2018 (Journal Indexed in SCI)
- **Itinerant G-type antiferromagnetism in D0(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, vol.94, 2016 (Journal Indexed in SCI)
- **Spin-filter and spin-gapless semiconductors: The case of Heusler compounds**
GALANAKIS I., ÖZDOĞAN K., SASIOGLU E.
AIP ADVANCES, vol.6, 2016 (Journal Indexed in SCI)
- **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, vol.45, pp.3086-3092, 2016 (Journal Indexed in SCI)
- **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, vol.110, pp.77-82, 2015 (Journal Indexed in SCI)
- **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, vol.90, 2014 (Journal Indexed in SCI)
- **Effect of disorder on the magnetic properties of cubic Mn₂RuXGa compounds: A first-principles study**
Galanakis I., ÖZDOĞAN K., Sasioglu E., Bluegel S.
JOURNAL OF APPLIED PHYSICS, vol.116, 2014 (Journal Indexed in SCI)
- **Conditions for spin-gapless semiconducting behavior in Mn₂CoAl inverse Heusler compound**
Galanakis I., ÖZDOĞAN K., Sasioglu E., Bluegel S.
JOURNAL OF APPLIED PHYSICS, vol.115, 2014 (Journal Indexed in SCI)
- **High-T-C fully compensated ferrimagnetic semiconductors as spin-filter materials: the case of CrVXA (X = Ti, Zr, Hf) Heusler compounds**
Galanakis I., ÖZDOĞAN K., Sasioglu E.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.26, 2014 (Journal Indexed in SCI)

- **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, vol.103, 2013 (Journal Indexed in SCI)
- **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, vol.113, 2013 (Journal Indexed in SCI)
- **Generalized Slater-Pauling rule for the inverse Heusler compounds**
Skaftouros S., ÖZDOĞAN K., Sasioglu E., Galanakis I.
PHYSICAL REVIEW B, vol.87, 2013 (Journal Indexed in SCI)
- **Search for spin gapless semiconductors: The case of inverse Heusler compounds**
Skaftouros S., ÖZDOĞAN K., Sasioglu E., Galanakis I.
APPLIED PHYSICS LETTERS, vol.102, 2013 (Journal Indexed in SCI)
- **Half-metallic perovskite superlattices with colossal thermoelectric figure of merit**
Kahaly M. U. , Ozdogan K., Schwingenschloegl U.
JOURNAL OF MATERIALS CHEMISTRY A, vol.1, pp.8406-8410, 2013 (Journal Indexed in SCI)
- **Half-metallic antiferromagnetism in Cr_{2+x}Se (0 ≤ x ≤ 1): A first-principles study**
Galanakis I., ÖZDOĞAN K., Sasioglu E.
PHYSICAL REVIEW B, vol.86, 2012 (Journal Indexed in SCI)
- **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, vol.111, 2012 (Journal Indexed in SCI)
- **Anomalous enhancement of the thermoelectric figure of merit by V co-doping of Nb-SrTiO₃**
Ozdogan K., KAHALY M. U. , ALSHAREEF H. N. , SCHWINGENSCHLOEGL U.
APPLIED PHYSICS LETTERS, vol.100, 2012 (Journal Indexed in SCI)
- **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, vol.44, pp.1244-1249, 2012 (Journal Indexed in SCI)
- **Enhanced carrier density in Nb-doped SrTiO₃ thermoelectrics**
Ozdogan K., KAHALY M. U. , KUMAR S. R. S. , ALSHAREEF H. N. , SCHWINGENSCHLOEGL U.
JOURNAL OF APPLIED PHYSICS, vol.111, 2012 (Journal Indexed in SCI)
- **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, vol.130, pp.340-345, 2011 (Journal Indexed in SCI)
- **Effect of order on the half-metallic gap in Heusler compounds**
ÖZDOĞAN K., Galanakis I.
JOURNAL OF APPLIED PHYSICS, vol.110, 2011 (Journal Indexed in SCI)
- **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, vol.84, 2011 (Journal Indexed in SCI)
- **Half-metallic ferrimagnetism in the [Sc_{1-x}V_x]C and [Sc_{1-x}V_x]Si alloys adopting the zincblende and wurtzite structures from first-principles**
Ozdogan K., SASIOGLU E., Galanakis I.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.322, pp.46-50, 2010 (Journal Indexed in SCI)
- **First-principles electronic and magnetic properties of the half-metallic antiferromagnet Cr₂MnSb**
Ozdogan K., Galanakis I.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.321, 2009 (Journal Indexed in SCI)

- **Optimizing the hydrogen storage in boron nitride nanotubes by defect engineering**
Ozdogan K., Berber S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.34, pp.5213-5217, 2009 (Journal Indexed in SCI)
- **Tuning the magnetic properties of half-metallic semi-Heusler alloys by sp-electron substitution: the case of AuMnSn_{1-x}Sbx quaternary alloys**
Ozdogan K., SASIOGLU E., Galanakis I.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.42, 2009 (Journal Indexed in SCI)
- **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, vol.104, 2008 (Journal Indexed in SCI)
- **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, vol.77, 2008 (Journal Indexed in SCI)
- **Ferrimagnetism and antiferromagnetism in half-metallic Heusler alloys**
Galanakis I., Ozdogan K., Sasioglu E., Aktas B.
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.205, pp.1036-1039, 2008 (Journal Indexed in SCI)
- **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, vol.320, pp.197-203, 2008 (Journal Indexed in SCI)
- **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, vol.103, 2008 (Journal Indexed in SCI)
- **Vacancy-induced minority-spin states in half-metallic Heusler alloys**
Oezdogan K., SASIOGLU E., GALANAKIS I.
PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS, vol.1, pp.184-186, 2007 (Journal Indexed in SCI)
- **EPR of VO₂⁺ in double format, Ba₂Zn(HCOO)₆(H₂O)₄ single crystals**
Yerli Y., Zerentuerk A., Oezdogan K.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.68, pp.147-149, 2007 (Journal Indexed in SCI)
- **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, vol.102, 2007 (Journal Indexed in SCI)
- **Defects-driven appearance of half-metallic ferrimagnetism in Co-Mn-based Heusler alloys**
Ozdogan K., GALANAKIS I., SASIOGLU E., AKTAS B.
SOLID STATE COMMUNICATIONS, vol.142, pp.492-497, 2007 (Journal Indexed in SCI)
- **Ab initio design of half-metallic fully compensated ferrimagnets: The case of Cr₂MnZ (Z=P, As, Sb, and Bi)**
Galanakis I., Ozdogan K., Sasioglu E., Aktas B.
PHYSICAL REVIEW B, vol.75, 2007 (Journal Indexed in SCI)
- **Defect-induced ferrimagnetism in the half-metallic Co₂CrAl and Co₂CrSi compounds**
Ozdogan K., GALANAKIS I., SASIOGLU E., AKTAS B.
PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS, vol.1, pp.95-97, 2007 (Journal Indexed in SCI)
- **Influence of mixing the low-valent transition metal atoms (Y, Y^{*}=Cr, Mn, Fe) on the properties of the quaternary Co-2[Y_{1-x}Y^{*}]₂Z (Z=Al, Ga, Si, Ge, or Sn) Heusler compounds**
Ozdogan K., AKTAS B., GALANAKIS I., SASIOGLU E.
JOURNAL OF APPLIED PHYSICS, vol.101, 2007 (Journal Indexed in SCI)
- **Doping of Mn₂VAl and Mn₂VSi Heusler alloys as a route to half-metallic antiferromagnetism**

Galanakis I., Ozdogan K., Sasioglu E., Aktas B.

PHYSICAL REVIEW B, vol.75, 2007 (Journal Indexed in SCI)

- **Doping and disorder in the Co₂MnAl and Co₂MnGa half-metallic Heusler alloys**

Ozdogan K., Sasioglu E., Aktas B., Galanakis I.

PHYSICAL REVIEW B, vol.74, 2006 (Journal Indexed in SCI)

- **Defects in CrAs and related compounds as a route to half-metallic ferrimagnetism**

Galanakis I., Ozdogan K., Sasioglu E., Aktas B.

PHYSICAL REVIEW B, vol.74, 2006 (Journal Indexed in SCI)

- **Effect of doping and disorder on the half metallicity of full Heusler alloys**

Galanakis I., Ozdogan K., Aktas B., Sasioglu E.

APPLIED PHYSICS LETTERS, vol.89, 2006 (Journal Indexed in SCI)

- **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, vol.18, pp.2905-2914, 2006 (Journal Indexed in SCI)

Articles Published in Other Journals

- **First-principles computed electronic and magnetic properties of zincblende alkaline-earth pnictides**

Özdoğan K., Galanakis I.

Journal of Advanced Physics, vol.1, pp.69-77, 2012 (Refereed Journals of Other Institutions)

Book & Book Chapters

- **in: Spintronics Materials Applications and Devices**

Özdoğan K., Galanakis I., Şaşıoğlu E.

Fundamentals of half-metallic Full-Heusler alloys "Spintronics: Materials and Applications, , Editor, NOVA Science Publishers Inc. , New-York, pp.213-226, 2009

- **in: Advances in Nanoscale Magnetism**

Özdoğan K., Galanakis I., Sasioglu E.

Role of Defects and Disorder in the Half-Metallic Full-Heusler Compounds, B. Aktaş,F. Mikailov, Editor, Springer-Verlag , Berlin, pp.1-16, 2008

- **in: Magnetic Nanostructures**

Özdoğan K., Aktaş B., Heinrich B., Woltersdorf G., Urban R., Tagirov L. R. , Yıldız F., Özdemir M., Yalçın O., Rameev B.

Magnetic anisotropies in ultra-thin iron films grown on the surface-reconstructed GaAs substrate, B. Aktas,L. R. Tagirov,and F. Mikailov, Editor, Springer-Verlag , Berlin, pp.167-184, 2007

- **in: Nanostructured Magnetic Materials and their Applications**

Özdoğan K., Aktaş B., Heinrich B., Woltersdorf G., Urban R., Tagirov L. R. , Yıldız F., Özdemir M., Yalçın O.

Magnetic anisotropies in the ultra-thin iron film grown on the GaAs substrate, B.Aktas,L.Tagirov,F.Mikailov, Editor, Kluwer Academic Publishers, Amsterdam, pp.213-227, 2004

Refereed Congress / Symposium Publications in Proceedings

- **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, Turkey, 19 - 21 Aralık 2017

- **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, Turkey, 19 - 21 Aralık 2017

- **Importance of Power Factor on Defining EnergyConversion Efficiency of CoFeCrAs Alloy**

inThermoelectric Material Research

KARA H., ÖZDOĞAN K.

3rd International Conference on Advances in Mechanical Engineering, Konya, Turkey, 19 Kasım - 21 Aralık 2017

- **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

- **Energy Conversion Efficiency for Renewable Waste Heat in Dynamic Electric Form: Full-Heusler Co₂TiAl Material**

KARA H., ÖZDOĞAN K.

5th International Symposium on Development of KOP Region, Konya, Turkey, 26 - 28 Ekim 2017

- **Thermopower Effect on Thermoelectric Renewable Energy Research: Ferromagnetic Co₂ScGe Compound**

KARA H., ÖZDOĞAN K.

5th International Symposium on Development of KOP Region, Konya, Turkey, 26 - 28 Ekim 2017

- **Computational Thermoelectric Study of Experimentally Synthesized Half-Metallic Co₂TiGe Alloy for Solar-Thermal Electric Technologies**

KARA H., ÖZDOĞAN K.

5th International Symposium on Development of KOP Region, Konya, Turkey, 26 - 28 Ekim 2017

- **Consideration of Co₂VGe 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, Turkey, 26 - 28 Ekim 2017

- **Evaluation of Thermopower on Co₂MnGe Heusler Alloy for Thermoelectric Renewable Energy Systems**

KARA H., ÖZDOĞAN K.

4th International TURK-PAK Conference on Chemical Sciences, Konya, Turkey, 26 - 28 Ekim 2017

- **Transport Properties in Ferromagnetic Co₂MnSi for Future Thermoelectric Energy Materials**

KARA H., ÖZDOĞAN K.

4th International TURK-PAK Conference on Chemical Sciences, Konya, Turkey, 26 - 28 Ekim 2017

- **Searching Magnetic Phase, Electronic Structure and Thermoelectric Properties of Ti₂MnAl Heusler Material**

KARA H., ÖZDOĞAN K.

24. WIEN2k Workshop, Viyana, Austria, 18 - 22 Eylül 2017

- **A DFT Based Thermoelectric Energy Research: Co₂MnSn Heusler Alloy as a Direct Thermal Energy Conversion Material**

KARA H., ÖZDOĞAN K.

24. WIEN2k Workshop, Viyana, Austria, 18 - 22 Eylül 2017

- **Energy Transfer Ability of Half-Metallic Co₂CrAl Full-Heusler Alloy**

KARA H., ÖZDOĞAN K.

International Congress on Semiconductor Materials and Devices (ICSMD-2017), Konya, Turkey, 17 - 19 Ağustos 2017

- **Evaluation of Transport Properties of Co₂CrIn Magnetic Heusler Alloy in Material Research for Thermoelectric Power Modules**

KARA H., ÖZDOĞAN K.

International Congress on Semiconductor Materials and Devices (ICSMD-2017), Konya, Turkey, 17 - 19 Ağustos 2017

- **Influence of Electrical Conductivity on Energy Transfer Efficiency of Co₂CrGe Heusler Alloy**

KARA H., ÖZDOĞAN K.

International Congress on Semiconductor Materials and Devices (ICSMD-2017), Konya, Turkey, 17 - 19 Ağustos 2017

- **Effect of Power Factor on Obtaining Electric Current by Using Waste Heat in Ferromagnetic Co₂CrGa Alloy**

KARA H., ÖZDOĞAN K.

International Congress on Semiconductor Materials and Devices (ICSMD-2017), Konya, Turkey, 17 - 19 Ağustos 2017

- **The contribution of thermopowers to energy conversion in Ti_2XAl ($X = Cu, Ni$) Heusler alloys**
KARA H., ÖZDOĞAN K.
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, 25 - 28 Nisan 2017
- **The electrical conductivity supplement to the figure of merit for ferromagnetic X_2VAl ($X = Sc, Ti$) in clean energy research**
KARA H., ÖZDOĞAN K.
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, 25 - 28 Nisan 2017
- **Computational determination of Hall coefficients for the comparison of charge carrier densities between X_2CrAl ($X = Sc, Ti$)**
KARA H., ÖZDOĞAN K.
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, 25 - 28 Nisan 2017
- **Thermal conductivity effect on the yield of waste heat recovery systems in Sc_2MnAl and Ti_2ZnAl materials**
KARA H., ÖZDOĞAN K.
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, 25 - 28 Nisan 2017
- **To regenerate electricity from waste heat: The comparison of power factors in X_2CoAl ($X = Sc, Ti$) compounds**
KARA H., ÖZDOĞAN K.
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, 25 - 28 Nisan 2017
- **Finding of Seebeck coefficients by DFT calculations for X_2FeAl ($X = Sc, Ti$) for thermoelectric energy conversion systems**
KARA H., ÖZDOĞAN K.
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, 25 - 28 Nisan 2017
- **FROM HEAT TO ELECTRICITY ENERGY CONVERSION ABILITY OF Sc_2XAl X Ti V Cr HEUSLER COMPOUNDS**
KARA H., ÖZDOĞAN K.
Second International Conference on Energy Systems, (ICES-2016) Yıldız Technical University, December 21-23, 2016, Istanbul, Turkey, 21 - 23 Aralık 2016
- **EVALUATION OF THERMOELECTRIC PERFORMANCE OF Sc_2XAl X Cu Zn BY USING AB INITIO CALCULATIONS**
KARA H., ÖZDOĞAN K.
Second International Conference on Energy Systems, (ICES-2016) Yıldız Technical University, December 21-23, 2016, Istanbul, Turkey, 21 - 23 Aralık 2016
- **$SrMO_3$ ($M = Sc, Y, Lu$) Bileşiklerinin Termoelektrik Özelliklerinin İncelenmesi**
Özdoğan K., Kara H., Aykara A.
Adım Fizik Günleri V, Eskişehir, Turkey, 21 - 23 Nisan 2016, pp.67
- **$SrTiO_3$ ve $SrVO_3$ Bileşiklerinin Elektronik ve Termoelektrik Özelliklerinin İlk Prensiplere Hesaplamaları ile İncelenmesi**
Özdoğan K., Kara H., Aykara A.
Adım Fizik Günleri V, Eskişehir, Turkey, 21 - 23 Nisan 2016, pp.142
- **Thermoelectric Properties of $SrYO_3$ Y V Nb Ta First Principles Calculations**
Aykara A., KARA H., ÖZDOĞAN K.
1st. International Conference on Organic Electronic Material Technologies, OEMT 2015, 25 - 28 Mart 2015, pp.29
- **Thermoelectric Properties of Cubic Perovskites $SrYO_3$ Y Ti Zr Hf**
Aykara A., KARA H., ÖZDOĞAN K.

1st. International Conference on Organic Electronic Material Technologies, OEMT 2015, 25 - 28 Mart 2015, pp.41

- **Farklı çaplardaki bor nitrür (BN) nanotüplerde hidrojen depolanmasının defekt mühendisliği ile geliştirilmesi**
Özdoğan K., Berber S.
UGHEK 2008 II. Ulusal Güneş ve Hidrojen Enerjisi Kongresi, Eskişehir, Turkey, 12 - 13 Haziran 2008, pp.45-46
- **Bor Nitrür (BN) Nanotüplerde Hidrojen Depolanması**
Özdoğan K., Berber S.
II. Ulusal Bor Çalıştayı MTA, Ankara, Turkey, 17 - 18 Nisan 2008, pp.69-75
- **Co₂MnGa ve Co₂MnAl Heusler Alaşımalarında Basınçla Yarı Metalik Ferromanyetizmanın Gözlenmesi**
Özdoğan K., Aktaş B.
Türk Fizik Derneği, 22. Fizik Kongresi, Muğla, Turkey, 14 - 17 Eylül 2004, pp.102
- **Magnetic anisotropies in ultrathin Fe films grown on GaAs**
Özdoğan K., Yıldız F., Özdemir M., Yalçın O., Heinrich B., Woltersdorf G., Urban R., Rameev B., Tagirov L.
2nd Euro-Asian Symposium Trends in Magnetism (EASTMAG-2004), Krasnojarsk, Russia, 24 - 27 Ağustos 2004, pp.305
- **Magnetic anisotropies in ultrathin iron films grown on the surface reconstructed GaAs Substrate**
Özdoğan K., Aktaş B., Yıldız F., Özdemir M., Yalçın O., Heinrich B., Woltersdorf G., Urban R., Rameev B., Tagirov L.
Nanoscale properties of condensed matter probed by resonance phenomena, Kazan, Russia, 15 - 19 Ağustos 2004, pp.87
- **Magnetic anisotropies in ultrathin film structures**
Özdoğan K., Aktaş B., Heinrich B., Tagirov L., Woltersdorf G., Urban R., Yıldız F., Özdemir M., Rameev B.
7th Conference on Nanostructured Materials - Nano2004, Wiesbaden, Germany, 20 - 24 Haziran 2004, pp.90
- **FMR studies on ultrathin Au/Fe/GaAs structures**
Özdoğan K., Aktaş B., Heinrich B., Woltersdorf G., Urban R., Tagirov L., Yıldız F., Yalçın O.
NATO Advanced Research Workshop on Nanostructured Magnetic Materials and Their Applications, Kocaeli, Turkey, 1 - 04 Temmuz 2003, pp.37
- **Magnetic anisotropies in magnetic ultrathin film structures**
Özdoğan K., Aktaş B., Heinrich B., Tagirov L., Woltersdorf G., Urban R., Yıldız F., Özdemir M., Rameev B.
Nanostructured Magnetic Materials and Their Applications ARW NMMA-2003, Kocaeli, Turkey, 1 - 04 Temmuz 2003, pp.63
- **ESR Study of Hard/oft (Sm-Co/Fe) Magnetic Film: Exchange-Spring Magnetic Multilayer Samples**
Özdoğan K., Yalçın O., Yıldız F., Özdemir M., Aktaş B., Jiang J. C.
Türk Fizik Derneği 21. Fizik Kongresi (TFD-21) , Isparta, Turkey, 11 - 14 Eylül 2002, pp.273
- **Theoretical Study of Ferromagnetic Rezonans in Exchanged-Coupled Magnetic/Nonmagnetic/Magnetic Multilayer Structures**
Özdoğan K., Özdemir M., Yalçın O., Aktaş B.
Türk Fizik Derneği 21. Fizik Kongresi (TFD-21) , Isparta, Turkey, 11 - 13 Eylül 2002, pp.315

Supported Projects

ÖZDOĞAN K., Project Supported by Higher Education Institutions, Oksit Tabanlı Termoelektrik Malzemelerin Modellenmesi, 2012 - 2014

ÖZDOĞAN K., Other Supported Projects, Termoelektrik Malzemelerin yoğunluk fonksiyonel teorisi ile çalışılması, 2011 - 2012

Activities in Scientific Journals

Turkish Journal of Physics, Editor, 2018 - Continues

Scientific Refereeing

THIN SOLID FILMS, SCI Journal, January 2019
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, SCI Journal, November 2018
Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, October 2018
Journal of Alloys and Compounds, SCI Journal, October 2018
Journal of Physics and Chemistry of Solids, SCI Journal, October 2018
Turkish Journal of Physics, Other Indexed Journal, May 2018
Journal of Alloys and Compounds, SCI Journal, March 2018
Journal of Materials Chemistry C, SCI Journal, June 2017
Journal of Applied Physics, SCI Journal, April 2017
Journal of Magnetism and Magnetic Materials, SCI Journal, April 2017
Journal of Alloys and Compounds, SCI Journal, January 2017
Journal of Physics and Chemistry of Solids, SCI Journal, January 2017
Journal of Magnetism and Magnetic Materials, SCI Journal, July 2016
INTERMETALLICS, SCI Journal, June 2016
Applied Physics Letters, SCI Journal, March 2016
Journal of Applied Physics, SCI Journal, June 2015
Journal of Alloys and Compounds, SCI Journal, July 2014
Journal of Magnetism and Magnetic Materials, SCI Journal, January 2014
Journal of Magnetism and Magnetic Materials, SCI Journal, January 2014
Communications in Computational Physics, SCI Journal, October 2011

Tasks In Event Organizations

Özdoğan K., International Conference on Physical Chemistry and Functional Materials, Scientific Congress, Elazığ, Turkey, Haziran 2018
Özdoğan K., Erbahar D., İpek S., Bingölbalı N. D. , Güler Kılıç S., International Conference on Nanoscale Magnetism 2007, Scientific Congress, Turkey, Haziran 2007
Özdoğan K., Aktaş B., Rameev B., Kazan S., Köysal O., İpek S., Erbahar D., International Conference on Nanoscale Magnetism 2005, Scientific Congress, Turkey, Temmuz 2005
Özdoğan K., Aktaş B., Mikailzade F., Yıldız F., Kazan S., NATO Advanced Research Workshop on Nanostructured Magnetic Materials and Their Applications, Scientific Congress, Kocaeli, Turkey, Haziran 2003

Invited Congress and Symposium Activities

International Workshop Recent Trends on Nanomagnetism, Attendee, Kocaeli, Turkey, 2003
NATO Advanced Research Workshop on Nanostructured Magnetic Materials and Their Applications, Attendee, Kocaeli, Turkey, 2003
Türk Fizik Derneği 21. Fizik Kongresi (TFD-21) , Attendee, Isparta, Turkey, 2002

Citations

Total Citations (WOS):1821
h-index (WOS):22