

# Prof. Dr. İLKNUR KARS DURUKAN

## Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: AHE-4510-2022

ScopusID: 55442998300

Yoksis Araştırmacı ID: 131893

## Eğitim Bilgileri

Doktora, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Türkiye 2007 - 2013

Yüksek Lisans, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Türkiye 2004 - 2007

Lisans, Gazi Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 2000 - 2004

## Yaptığı Tezler

Doktora, Al:ZnO ince filmlerin büyütülmesi ve biyo-sensör özelliklerinin incelenmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 2013

Yüksek Lisans, Al<sub>0,2</sub>Ga<sub>0,8</sub>As/GaAs çoklu kuantum kuyusunun yapısal ve optik özelliklerinin incelenmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2007

## Araştırma Alanları

Temel Bilimler

## Akademik Unvanlar / Görevler

Prof. Dr., Gazi Üniversitesi, Fen Fakültesi, Fizik, 2024 - Devam Ediyor

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

- Investigation of the structural, mechanical, anisotropic, thermal conductivity, electronic, and phonon properties of RhTiZ (Z: As, Sb) half heusler compounds under high pressure: A DFT study**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
Physica B: Condensed Matter, cilt.694, 2024 (SCI-Expanded)
- Analyzing the physical properties of perovskite oxides CeBO<sub>3</sub> (B<sup>1/4</sup>Be, Mg) for optoelectronic and thermoelectric applications**  
Ali A., Anissa B., Radouane D., Durukan İ.  
Modern Physics Letters B, cilt.38, sa.28, 2024 (SCI-Expanded)

- III. **A new candidate for optoelectronic device applications: CoTiX (X: P, As, Sb) half-heusler compounds**  
Durukan İ. K., Ciftci Y. O., Tekin H.  
PHYSICA B: CONDENSED MATTER, cilt.678, ss.1-16, 2024 (SCI-Expanded)
- IV. **Computational analysis of the physical properties of AlNi intermetallic compound: pressure effect**  
KARS DURUKAN İ., Oztekin Ciftci Y.  
Indian Journal of Physics, cilt.98, sa.3, ss.889-901, 2024 (SCI-Expanded)
- V. **Emergent properties resulting from type-II band alignment in a new lateral ( $\alpha$ -PbO/ $\alpha$ -SnO) heterostructure**  
Bakhtatou A., Hamidani A., Zanat K., ÇİFTÇİ Y., Durukan İ., Ersan F.  
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- VI. **Mechanical, vibration, and optical properties of IrAl intermetallic compound via DFT calculations: high-pressure effect**  
Durukan İ. K.  
PHYSICA SCRIPTA, cilt.98, sa.7, ss.1-16, 2023 (SCI-Expanded)
- VII. **The mechanical, dynamical, thermodynamical properties and elastic anisotropies of cubic YbAu compound under pressure**  
KARS DURUKAN İ., EVECEN M., ÇİFTÇİ Y.  
MATERIALS TODAY COMMUNICATIONS, cilt.33, 2022 (SCI-Expanded)
- VIII. **Pressure effects on structural, electronic and anisotropic elastic properties of Si doped RuGe compound with different concentrations by first-principles calculations**  
ÇİFTÇİ Y., ÇOBAN C., EVECEN M., Durukan İ. K.  
MATERIALS CHEMISTRY AND PHYSICS, cilt.291, 2022 (SCI-Expanded)
- IX. **Study of structural, electronic, elastic, optical and thermoelectric properties of half-Heusler compound RbScSn: A TB-mBJ DFT study**  
Anissa B., Radouan D., KARS DURUKAN İ.  
OPTICAL AND QUANTUM ELECTRONICS, cilt.54, sa.6, 2022 (SCI-Expanded)
- X. **First-principles study on B2 based XAl(X = Rh, Ru)compounds**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
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- XI. **First-principles calculations of vibrational and optical properties of half-Heusler NaScSi**  
Kars Durukan İ., Oztekin Ciftci Y.  
INDIAN JOURNAL OF PHYSICS, cilt.95, sa.11, ss.2303-2312, 2021 (SCI-Expanded)
- XII. **Ab-initio study on physical properties of intermetallic LiPb compound**  
Durukan İ., ÇİFTÇİ Y.  
Journal of Computational Science, cilt.54, 2021 (SCI-Expanded)
- XIII. **Anisotropic Elastic, Electronic and Vibrational Properties of the Semiconductor AgScX (X = Ge, C) Compounds**  
Kars Durukan İ., Çiftci Y.  
JOURNAL OF ELECTRONIC MATERIALS, cilt.49, sa.3, ss.1849-1856, 2020 (SCI-Expanded)
- XIV. **The Effect of Pressure on Elastic Anisotropy, Vibration and Optical Properties of a AgScSi Compound**  
Durukan İ., Ciftci Y.  
JOURNAL OF ELECTRONIC MATERIALS, cilt.48, sa.6, ss.4050-4056, 2019 (SCI-Expanded)
- XV. **Analyzing the AlGaN/AlN/GaN Heterostructures for HEMT Applications**  
Durukan İ., Akpinar O., Avar C., Gultekin A., Ozturk M. K., Ozcelik S., Ozbay E.  
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, cilt.13, sa.3, ss.331-334, 2018 (SCI-Expanded)
- XVI. **Microstructural Analysis with Graded and Non-Graded Indium in InGaN Solar Cell**  
KARS DURUKAN İ., Ozturk M. K., ÇÖREKÇİ S., Tamer M., Bas Y., ÖZÇELİK S., ÖZBAY E.  
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, cilt.12, sa.2, ss.109-117, 2017 (SCI-Expanded)
- XVII. **Examination of the temperature related structural defects of InGaN/GaN solar cells**  
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- SUPERLATTICES AND MICROSTRUCTURES, cilt.86, ss.379-389, 2015 (SCI-Expanded)
- XVIII. **The study on characterizations of SrTiO<sub>3</sub> thin films with different growth temperatures**  
Kinacı B., Akın Sönmez N., Durukan İ., Memmedli T., Ozcelik S.  
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- XIX. **Preparation of RF sputtered AZO/Au thin film hydrogen peroxide sensitive electrode for utilization as a biosensor**  
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- XX. **Effects of annealing and deposition temperature on the structural and optical properties of AZO thin films**  
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- XXI. **Effect of different P/As ratio on the optical and structural properties of GaAs<sub>1-x</sub>P<sub>x</sub>/GaAs**  
Cetin S. Ş., KINACI B., ASAR T., KARS DURUKAN İ., Ozturk M. K., Mammadov T. S., ÖZÇELİK S.  
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- XXII. **Influence of thermal annealing on the structure and optical properties of d.c. magnetron sputtered titanium dioxide thin films**  
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- XXIII. **Electrical characterization of current conduction in Au/TiO<sub>2</sub>/n-Si at wide temperature range**  
Altuntas H., Bengi A., Aydemir U., Asar T., Cetin S. Ş., Kars İ., Altindal Ş., Ozcelik S.  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **DFT STUDIES ON ELECTRONIC, ELASTIC, THERMOELECTRIC AND OPTICAL PROPERTIES OF NEW HALF-HEUSLER XRhZ (X =V, Nb AND Z = Si, Ge) SEMICONDUCTORS**  
Ahmed B. S., Anissa B., Radouan D., Al Bouzieh N., Durukan İ., Amrane N.  
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- II. **ANALYSIS OF TiFe INTERMETALLIC COMPOUND BY DFT**  
Taş E., kars durukan i., Çiftci Y.  
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- III. **DFT Analysis of Mechanical and Dynamic Properties of CuBe**  
KARS DURUKAN İ., Oztekin Ciftci Y.  
Gazi University Journal of Science, cilt.35, sa.4, ss.1652-1663, 2022 (Scopus)
- IV. **Synthesis and Characterization of Silver Nanoparticles and Coating with Chitosan**  
ATEŞ M., YILMAZ E., KAR B., KARS DURUKAN İ.  
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- V. **Ecotoxicity Study of Iron Oxide Nanoparticles on Chlorella Sp. and Daphnia Magna**  
Ertit Taştan B., Kars Durukan İ., Ateş M.  
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- VI. **Crystal Size and Stress Account in Reciprocal Space Map**  
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JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, cilt.22, sa.1, ss.1-9, 2019 (ESCI)
- VII. **InGaN/GaN Yapıların Mozaik Yapı Analizi**  
KARS DURUKAN İ., ÖZTÜRK M., ÖZÇELİK S., ÖZBAY E.  
Avrupa Bilim Ve teknoloji Dergisi, 2018 (Hakemli Dergi)
- VIII. **Analyzing The InGaN LED Structures for White LED Applications**  
Kars Durukan İ., Ozturk M. K., Özçelik S., Özbay E.  
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- IX. **Analysis of the Mosaic Defects in Graded and Non Graded Insub<sub>x</sub>/subGasub<sub>1-x</sub>/subN Solar Cell Structures**  
KARS DURUKAN İ., ÖZTÜRK M., ÖZÇELİK S., ÖZBAY E.  
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.21, sa.1, ss.235, 2017 (Hakemli Dergi)

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

- I. **ANALYSIS OF STRUCTURAL, ELECTRONIC, MECHANICAL AND THERMODYNAMIC PROPERTIES OF Ir<sub>3</sub>TiC COMPOUND USING DFT**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
2nd International Karatekin Science and Technology Conference (IKSTC2nd), Çankırı, Türkiye, 21 - 22 Aralık 2023
- II. **Some physical properties of B2 type AgY intermetallic compound from Ab-initio Calculations**  
ÇİFTÇİ Y., KARS DURUKAN İ.  
2nd International Karatekin Science and Technology Conference (IKSTC2nd), Çankırı, Türkiye, 21 - 22 Aralık 2023
- III. **THE INFLUENCE OF PRESSURE ON THE STRUCTURAL AND ELASTIC PROPERTIES OF THE CuY INTERMETALLIC COMPOUND**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
2nd International Karatekin Science and Technology Conference (IKSTC2nd), Çankırı, Türkiye, 21 - 22 Aralık 2023
- IV. **Effect of Pressure on Optoelectronic Properties of Ir<sub>3</sub>ZrC Compound**  
ÇİFTÇİ Y., KARS DURUKAN İ.  
2nd International Karatekin Science and Technology Conference (IKSTC2nd), Çankırı, Türkiye, 21 - 22 Aralık 2023
- V. **ANALYSIS OF STRUCTURAL AND OPTIC PROPERTIES OF TiZn INTERMETALLIC COMPOUND**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
3. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENTIFIC RESEARCH, Adana, Türkiye, 7 - 08 Ağustos 2023
- VI. **ANALYSIS OF STRUCTURAL AND MECHANICAL PROPERTIES OF YHg INTERMETALLIC COMPOUND**  
KARS DURUKAN İ., demir f., ÇİFTÇİ Y.  
3. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENTIFIC RESEARCH, Adana, Türkiye, 7 - 08 Ağustos 2023
- VII. **CONCENTRATION DEPENDENCE OF STRUCTURAL AND MECHANICAL AND ELECTRONIC PROPERTIES OF IrTi<sub>1-x</sub>Zn<sub>x</sub> INTERMETALIC COMPOUND**  
ÇİFTÇİ Y., KARS DURUKAN İ.  
3. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENTIFIC RESEARCH, Adana, Türkiye, 7 - 08 Ağustos 2023
- VIII. **TRANSITION METAL ADDING ON B2-TYPE TIC<sub>1</sub> COMPOUND FOR PHYSICAL PROPERTIES : AB-INITIO CALCULATIONS**  
ÇİFTÇİ Y., KARS DURUKAN İ.  
3. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENTIFIC RESEARCH, Adana, Türkiye, 7 - 08 Ağustos 2023
- IX. **Computational Study of Structural, Electronic Mechanical and Optical Properties of Antiperovskite PNSr<sub>3</sub> Compound**  
Gemici İ. A., ÇİFTÇİ Y., KARS DURUKAN İ.  
3. INTERNATIONAL CONGRESS ON CONTEMPORARY SCIENCE RESEARCH, Ankara, Türkiye, 07 Ağustos 2023
- X. **Thermodynamic Properties of Half -Heusler Semiconductor RhTiSb Compound**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
ICMATSE, Türkiye, 27 - 29 Ekim 2022
- XI. **Defect effects on hardness of B2-type YIn Compound**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
ECRES 2022, İstanbul, Türkiye, 07 Mayıs 2022
- XII. **Theoretical Analysis of Thermodynamic Properties of RhTiAs Half Heusler Compound**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
ECRES 2022, İstanbul, Türkiye, 07 Mayıs 2022
- XIII. **Pressure effect on the elastic and electronic properties of RhTiSb Half Heusler compound**  
ÇİFTÇİ Y., KARS DURUKAN İ.

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- XIV. **Ab-initio study on hydrogen storage of Ni substituted CuZn in B2 structure**  
ÇİFTÇİ Y., KARS DURUKAN İ.  
ECRES 2022, İstanbul, Türkiye, 07 Mayıs 2022
- XV. **First-Principles study on thermoelectric and electronic properties of Half-Heusler BeCaGa compound under strain**  
ÇİFTÇİ Y., KARS DURUKAN İ.  
ECRES 2022, İstanbul, Türkiye, 07 Mayıs 2022
- XVI. **Optoelectronic Properties of Semiconductor NiHfSi Compound via Ab-initio Methods**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
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- XVII. **THEORETICAL INVESTGATON OF THE MECHANICAL AND ELECTRONIC PROPERTIES OF YbS COMPOUND**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
3. ULUSLARARASI MÜHENDİSLİK BİLİMLERİ VE MULTİDİSİPLİNER YAKLAŞIMLAR KONGRESİ, Ankara, Türkiye, 10 Şubat 2022
- XVIII. **ANALYSIS OF CoTiSb COMPOUND BY FIRST PRINCIPLES METHOD**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
3. ULUSLARARASI MÜHENDİSLİK BİLİMLERİ VE MULTİDİSİPLİNER YAKLAŞIMLAR KONGRESİ, Ankara, Türkiye, 10 Şubat 2022
- XIX. **Effects of Compositions on the Properties of Cu doped ScAu : First-Principles Study**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
ICMECE, Türkiye, 27 - 28 Kasım 2021
- XX. **Effects Effect of Pressure on Physical and Vibrational Properties of YbS Compound**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
ICMECE, Türkiye, 27 - 28 Kasım 2021
- XXI. **Pressure-induced Effects on Phase Transition Elastic Properties, Electronic, Vibrational and Thermodynamic Properties of CeAs Compound :Ab-initio Study**  
ÇİFTÇİ Y., KARS DURUKAN İ.  
ECRES 2021, Türkiye, 21 - 23 Nisan 2021
- XXII. **Analysis of optical properties of the CeTl intermetallic structure**  
Kars Durukan İ., Çiftci Y.  
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- XXIII. **The Physical Properties of newly synthesized superconductor compound LaNiGe via Ab-initio calculatios**  
Çiftci Y., Kars Durukan İ.  
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- XXIV. **Evaluation of Mechanical and Thermodynamic Properties of BaZn compound by DFT**  
Kars Durukan İ., Çiftci Y.  
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- XXV. **A theoretical study of pressure-induced effects on CeAs compound**  
Kars Durukan İ., Çiftci Y.  
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- XXVI. **Ab initio Calculations of the Mechanical Vibration and bond Nature of the CdSr Compound**  
Kars Durukan İ., Çiftci Y.  
ECRES-2021, İstanbul, Türkiye, 21 - 23 Nisan 2021, ss.549-552
- XXVII. **The effect of Rh, Ir doping on the structural and elastic properties of CoAl: An ab-initio study**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
6th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), 16 - 18 Ekim 2019
- XXVIII. **A first-principles study of B2 TcSi alloyed with Mn,Re**

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- XXIX. **Pressure Effect on Phase Transition for CaTe Compound**  
ÇİFTÇİ Y., KARS DURUKAN İ.  
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- XXX. **Ab-INITIO STUDY OF INTERMETALLIC BaZnIN B2 STRUCTURE FOR ELASTIC AND THERMODYNAMIC PROPERTIES UNDER PRESSURE**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
2nd International Eurasian Conference on Biological and Chemical Sciences, 28 - 29 Haziran 2019
- XXXI. **Structural, elastic, electronic and vibrational properties of CdSr compound : First-principles study pressure**  
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- XXXII. **THEORETICAL STUDY OF STRUCTURAL, ELASTIC ANISOTROPY, ELECTRONIC, AND VIBRATIONAL PROPERTIES OF CuBe COMPOUND**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
I.LULUSLARARASI 23 NİSAN MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, 20 - 23 Nisan 2019
- XXXIII. **FIRST-PRINCIPLES STUDY OF STRUCTURAL, ELASTIC, ELECTRONIC, THERMODYNAMIC PROPERTIES OF RuTi COMPOUND in B2 STRUCTURE**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
1. ULUSLARARASI 23 NİSAN MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, 20 - 23 Nisan 2019
- XXXIV. **A First-Principles Study of Pressure-induced Effects on Phase Transition, Elastic and Electronic Properties of CeTe Compound**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
EuroasianSciTech-2018, 22 - 23 Kasım 2018
- XXXV. **The Pressure Effects on Physical Properties of CeZn Compound in B2 Structure**  
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- XXXVI. **Pressure Effects on Electronic and Elastic Properties of Half-Heusler Semiconductor AgScSi for Optoelectronic Applications**  
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- XXXVII. **CeP : Structural, Electronic, Thermodynamic And Vibrational Properties By First Principles Calculations**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
Computational Sciences Congress, 26 - 28 Ekim 2018
- XXXVIII. **A First-Principles Study of Pressure-induced Effects on Phase Transition, Elastic, Electronic and Vibrational Properties of CeSb Compound**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
Computational Sciences Congress, 26 - 28 Ekim 2018
- XXXIX. **Structural, Optic and Vibrational Properties of CeTl Using First-Principles Study**  
KARS DURUKAN İ., ÇİFTÇİ Y.  
Computational Sciences Congress, 26 - 28 Ekim 2018
- XL. **Toxicity of  $\alpha$ -Fe2O3 nanoparticles in aquatic environments**  
ERTİT TAŞTAN B., KARS DURUKAN İ., ATEŞ M.  
2nd International Water Congress, 29 Ekim - 01 Kasım 2018
- XLI. **InGaN LED LERİN YAPISAL ÖZELLİKLERİNİN XRD İLE İNCELENMESİ**  
Kars Durukan İ., Gökçe G., Öztürk M., Özçelik S., Özbay E.  
International Advanced Researches Engineering Congress-2017, Osmaniye, Türkiye, 16 - 18 Kasım 2017

- XLII. Analyzing The AlInN/GaN/AlN Structures For HEMT Based Structures**  
Kars Durukan İ., Erkan H., Öztürk M., Özbay E., Özçelik S.  
International Advanced Researches Engineering Congress-2017, Osmaniye, Türkiye, 16 Kasım - 18 Aralık 2017
- XLIII. Newly designed silver coated-magnetic, monodisperse polymeric microbeads for the reduction of nitrophenol**  
KARS DURUKAN İ., USTA D. D., ediz e., KİP F. Ç., TUNCEL S. A.  
Ecology 2017, 11 - 13 Mayıs 2017
- XLIV. Synthesis and Characterization of Ag Nanoparticle Based Photocatalysts**  
KARS DURUKAN İ., USTA D. D., Ediz E., KİP F. Ç., TUNCEL S. A.  
Ecology 2017, 11 - 13 Mayıs 2017
- XLV. Newly Designed Silver Coated-Magnetic, Monodisperse Polymeric Microbeads for the Reduction of Nitrophenol**  
KARS DURUKAN İ., USTA D. D., ediz e., KİP F. Ç., TUNCEL S. A.  
Ecology 2017, 11 - 13 Mayıs 2017
- XLVI. Wastewater Treatment with Magnetic Microspheres**  
KARS DURUKAN İ., USTA D. D., ediz e., KİP F. Ç., TUNCEL S. A.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, İstanbul, Türkiye, 25 - 28 Nisan 2017
- XLVII. SYNTHESIS AND CHARACTERIZATION OF NANOPARTICLE BASED PHOTOCATALYSTS**  
KARS DURUKAN İ., USTA D. D., Ediz E., KİP F. Ç., TUNCEL S. A.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, 25 - 28 Nisan 2017
- XLVIII. Wastewater Treatment with Magnetic Microspheres**  
KARS DURUKAN İ., USTA D. D., Ediz E., KİP F. Ç., TUNCEL S. A.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, 25 - 28 Nisan 2017
- XLIX. PHENOL REMOVAL BY MAGNETIC CONTROLLED CONTINUOUS REACTOR SYSTEM**  
KARS DURUKAN İ., USTA D. D., Ediz E., Salimi K., TUNCEL S. A.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, 25 - 28 Nisan 2017
- L. On the variation of the AlN Buffer Thickness of AlGaIn/AlIn/GaN Heterostructures**  
Kars Durukan İ., Karaoğlan E., Akpınar Ö., Öztürk M., Özçelik S., Özbay E.  
Inotes symposium and workshop, Tokat, Türkiye, 27 - 28 Mart 2017
- LI. Structural Analysis of Au, Ti, ZnMnO Metals and Alloys on Ge as Buffer Layer for Optoelectronic Devices**  
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## Metrikler

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