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Personal Information

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Address: İstanbul Medeniyet Üniversitesi, Mühendislik ve Doğa bilimleri Fakültesi Kuzey Kampüs H-blok no:006. (D-100 karayolu ünalan mevkii yanyol üzeri) Üsküdar / İstanbul

Education Information

Doctorate, Atatürk Üniversitesi, Fen Fakültesi, Katıl Fizik, Turkey 2010 - 2016

Postgraduate, Marmara Üniversitesi, Atatürk Eğitim Fakültesi, Fizik Öğretmenliği/Fizik Eğitimi, Turkey 2007 - 2010

Undergraduate, Boğaziçi Üniversitesi, Eğitim Fakültesi, Fizik Öğretmenliği, Turkey 2000 - 2006

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Education Management and Planning, ÜSTÜN YETENEKLİLER İÇİN FARKLILAŞTIRILMIŞ ÖĞRETİM SEMİNERİ, TÜRKİYE ÜSTÜN ZEKALI ve DAHI ÇOCUKLAR EĞİTİM VAKFI (TÜZDEV), 2017

Education Management and Planning, Proje Hazırlama Çalıştay, İstanbul Medeniyet Üniversitesi, 2013

Quality Management, Elektronik atıkların geri dönüşümü, denetimi, BİNGÖL ÜNİVERSİTESİ, 2011

Dissertations

Doctorate, PRODUCTION AND PHOTOVOLTAIC CHARACTERIZATION OF PEROVSKITE SOLAR CELLS WITH ADDITIVES, Ataturk University, Education Management, 2016

Postgraduate, ÖĞRENCİLERİN FİZİKLE İLGİLİ GÜNLÜK YAŞAM OLAYLARINI AÇIKLAMA BECERİLERİNİN AKADEMİK BAŞARILARINA KATKISI: UYGULAMALI BİR FİZİK DERSİ TASARIMI VE YAKLAŞIMI, Marmara Üniversitesi, Atatürk Eğitim Fakültesi, Fizik Öğretmenliği/Fizik Eğitimi, 2010

Research Areas

Electrical and Electronics Engineering, MEMS, Semiconducting Materials and Devices, Physics, Interdisciplinary Physics and Related Science and Technology Areas, Electronic and magnetic devices, microelectronics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Istanbul Medeniyet University, Faculty of Engineering and Natural Sciences , Engineering Physics, 2016 - Continues

Research Assistant, Istanbul Medeniyet University, Faculty of Engineering and Natural Sciences , Engineering Physics, 2014 - 2016

Research Assistant, Istanbul Medeniyet University, 2012 - 2014

Research Assistant, Bingöl Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2009 - 2012

Academic and Administrative Experience

Erasmus Coordinator, Istanbul Medeniyet University, Faculty of Science, Engineering Physics, 2018 - Continues

Courses

PHYSICS 1 (MECHANICS), Undergraduate, 2019 - 2020

GENERAL PHYSICS, Undergraduate, 2019 - 2020

Thermodynamics, Undergraduate, 2018 - 2019

OPTICS, Undergraduate, 2018 - 2019

PHYS 101 (MECHANICS), Undergraduate, 2018 - 2019

Jury Memberships

Competition, TÜBİTAK, Özel Liseler Arası Proje Yarışması, TÜBİTAK, April, 2008

Competition, İstanbul İli Özel Liseler Arası Proje Yarışması, Özel Eyüboğlu Koleji, May, 2006

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

- I. **Dielectric properties of boron-doped PDMS composites**
Hezam A., Karadogan B., OKUTAN M., SAN S. E. , COŞKUN F. M.
BULLETIN OF MATERIALS SCIENCE, vol.44, no.3, 2021 (Journal Indexed in SCI)
- II. **Frequency and temperature impact on the electrical properties of $\text{LaCr}_{0.99}\text{Pd}_{0.01}\text{O}_{3-x}\text{F}_x$ compound**
COŞKUN M., Polat O., Sobola D., Konecny M., COŞKUN F. M. , Durmus Z., Caglar M., Ocal A. K. , TÜRÜT A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2020 (Journal Indexed in SCI)
- III. **Examination of optical properties of YbFeO_3 films via doping transition element osmium**
Polat O., Caglar M., Coskun F. M. , Sobola D., Konečný M., Coskun M., Caglar Y., Turut A.
OPTICAL MATERIALS, vol.105, 2020 (Journal Indexed in SCI)
- IV. **The influence of cobalt (Co) doping on the electrical and dielectric properties of $\text{LaCr}_{1-x}\text{Co}_x\text{O}_3$ perovskite-oxide compounds**
COŞKUN M., Polat O., COŞKUN F. M. , Durmus Z., Caglar M., TÜRÜT A.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.109, 2020 (Journal Indexed in SCI)
- V. **An investigation of the optical properties of $\text{YbFe}_{1-x}\text{Ir}_x\text{O}_3$ ($x=0, 0.01$ and 0.10) orthoferrite films**
Polat Ö., Çağlar M., Coşkun F. M. , Coşkun M., Çağlar Y., Türüt A.
Vacuum, vol.173, pp.109124-109130, 2020 (Journal Indexed in SCI)
- VI. **Influence of transition element Os substitution on the structural and electrical features of perovskite structure $\text{LaCr}_{1-x}\text{Os}_x\text{O}_3$**
Polat O., Coşkun M., Coşkun F. M. , Zlamal J., Durmuş Z., Çağlar M., Türüt A.
MATERIALS RESEARCH BULLETIN, vol.124, pp.110759-110777, 2020 (Journal Indexed in SCI)
- VII. **Precursor vapor deposited perovskite solar cells with smooth absorber layer**

Coşkun F. M. , Değirmenci F., Köse M. E.

MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.1, no.1, pp.104813-104814, 2020 (Journal Indexed in SCI)

- VIII. **The impact of Ir doping on the electrical properties of YbFe_{1-x}Ir_xO₃ perovskite-oxide compounds**
Coskun M., Polat O., Coskun F. M. , Kurt B. Z. , Durmus Z., Caglar M., Turut A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.2, pp.1731-1744, 2020 (Journal Indexed in SCI)
- IX. **The current and capacitance characteristics as a function of sample temperature in YMn_{0.90}Os_{0.10}O₃/p-Si structures**
Coşkun M., Polat Ö., Coşkun F. M. , Efeoğlu H., Çağlar M., Durmuş Z., Türüt A.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.102, 2019 (Journal Indexed in SCI)
- X. **An experimental investigation: The impact of cobalt doping on optical properties of YbFeO₃-delta thin film**
Polat O., Caglar M., COŞKUN F. M. , COŞKUN M., Caglar Y., TÜRÜT A.
MATERIALS RESEARCH BULLETIN, vol.119, 2019 (Journal Indexed in SCI)
- XI. **Synthesis, characterization and wide range frequency and temperature dependent electrical modulus study of LaCrO₃ and cobalt (Co) doped LaCrO₃ perovskite compounds**
Coşkun M., Polat Ö., Coşkun F. M. , Durmuş Z., Çağlar M., Türüt A.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.248, 2019 (Journal Indexed in SCI)
- XII. **Co effect on the structural, chemical and frequency depended electrical properties of YbFeO₃ perovskite oxide compound**
Coşkun M., Polat Ö., Coşkun F. M. , Durmuş Z., Çağlar M., Türüt A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.14, pp.13336-13346, 2019 (Journal Indexed in SCI)
- XIII. **Temperature dependent current transport mechanism in osmium-doped perovskite yttrium manganite-based heterojunctions**
Coşkun F. M. , Polat O., Coşkun M., Türüt A., Çağlar M., Durmuş Z., Efeoğlu H.
JOURNAL OF APPLIED PHYSICS, vol.125, no.21, 2019 (Journal Indexed in SCI)
- XIV. **Electrical characterization of Ir doped rare-earth orthoferrite YbFeO₃**
polat o., COŞKUN M., COŞKUN F. M. , Kurt B. Z. , durmus z., caglar y., caglar m., TÜRÜT A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.787, pp.1212-1224, 2019 (Journal Indexed in SCI)
- XV. **The current-voltage characteristics of the ferroelectric p-YMnO₃ thin film/bulk p-Si heterojunction over a broad measurement temperature range**
Türüt A., Coşkun M., Coşkun F. M. , Polat Ö., Durmuş Z., Çağlar M., Efeoğlu H.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.782, pp.566-575, 2019 (Journal Indexed in SCI)
- XVI. **Effect of Os doping on electrical properties of YMnO₃ multiferroic perovskite-oxide compounds**
Coskun M., Polat Ö., Coskun F. M. , Durmuş Z., Çağlar M., Turut A.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.91, pp.281-289, 2019 (Journal Indexed in SCI)
- XVII. **Tailoring the band gap of ferroelectric YMnO₃ through tuning the Os doping level**
POLAT Ö., COŞKUN F. M. , COŞKUN M., durmuş z., çağlar y., çağlar m., TÜRÜT A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.4, pp.3443-3451, 2019 (Journal Indexed in SCI)
- XVIII. **Co doped YbFeO₃ : exploring the electrical properties via tuning the doping level**
Polat Ö., Coskun M., Coskun F. M. , Zlamal J., Kurt B. Z. , Durmuş Z., Çağlar M., Turut A.
Ionics, 2019 (Journal Indexed in SCI)
- XIX. **The characterization of electrical properties of Pd-doped LaCrO₃ perovskite structure**
Polat O., COŞKUN M., COŞKUN F. M. , durmuş z., Caglar M., TÜRÜT A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.19, pp.16939-16955, 2018 (Journal Indexed in SCI)
- XX. **Os doped YMnO₃ multiferroic: A study investigating the electrical properties through tuning the**

doping level

Polat O., COŞKUN M., COŞKUN F. M. , durmuş z., Caglar M., TÜRÜT A.

JOURNAL OF ALLOYS AND COMPOUNDS, vol.752, pp.274-288, 2018 (Journal Indexed in SCI)

XXI. **Frequency and temperature dependent electrical and dielectric properties of LaCrO₃ and Ir doped LaCrO₃ perovskite compounds**

COŞKUN M., Polat O., COŞKUN F. M. , durmuş z., Caglar M., TÜRÜT A.

JOURNAL OF ALLOYS AND COMPOUNDS, vol.740, pp.1012-1023, 2018 (Journal Indexed in SCI)

XXII. **Engineering the band gap of LaCrO₃ doping with transition metals (Co, Pd, and Ir)**

Polat O., Durmuş Z., COŞKUN F. M. , COŞKUN M., TÜRÜT A.

JOURNAL OF MATERIALS SCIENCE, vol.53, no.5, pp.3544-3556, 2018 (Journal Indexed in SCI)

XXIII. **The electrical modulus and other dielectric properties by the impedance spectroscopy of LaCrO₃ and LaCr_{0.90}Ir_{0.10}O₃ perovskites**

COŞKUN M., Polat O., COŞKUN F. M. , Durmuş Z., Caglar M., TÜRÜT A.

RSC ADVANCES, vol.8, no.9, pp.4634-4648, 2018 (Journal Indexed in SCI)

XXIV. **I-V-T (current-voltage-temperature) characteristics of the Au/Anthraquinone/p-Si/Al junction device**

Çaldıran Z., Deniz A. R. , COŞKUN F. M. , Aydoğan Ş.

JOURNAL OF ALLOYS AND COMPOUNDS, vol.584, pp.652-657, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

I. **A COMPREHENSIVE DETERMINING OF CAPACITANCE -VOLTAGE PARAMETERS OF ELECTRONIC DEVICES WITH METAL AND p-Si JUNCTION**

Coşkun F. M.

Eskişehir Technical University Journal of Science and Technology B- Theoretical Sciences, vol.8, no.2, pp.247-256, 2020 (National Refreed University Journal)

II. **Impact of Chlorine Doping on the Performance of Perovskite Solar Cells**

Coşkun F. M. , Aydoğan Ş.

Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.1, no.1, pp.2070-2078, 2019 (National Refreed University Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Synthesis and Electrical Admittance (Y) Properties of Co Doped LaCrO₃ Compounds**

Coşkun F. M. , Polat Ö., Coşkun M., Türüt A.

6th International CONFERENCE ON MATERIALS SCIENCE AND NANOTECHNOLOGY FOR NEXT GENERATION (MSNG2019), Niğde, Turkey, 16 - 18 October 2019, pp.87-90

II. **TEMPERATURE DEPENDENT CAPACITANCE AND OTHER ELECTRICAL PROPERTIES OF THE DEVICES WITH A STRUCTURE OF Al/YMn_{0.95}O_{s0.05}O₃/p-Si/Al**

Coşkun F. M.

International Natural Science, Engineering and Material Technologies Conference, İstanbul, Turkey, 9 - 10 September 2019, pp.393-402

III. **Synthesis and Electrical Admittance (Y) Properties of Co Doped LaCrO₃ Compounds**

Coşkun F. M. , Polat Ö., Coşkun M., Türüt A.

6th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), Niğde, Turkey, 16 - 18 October 2019, pp.87-90

IV. **Wide Range Frequency and Temperature Dependent Electrical Property Study of LaCrO₃ And Cobalt (Co) Doped LaCrO₃ Perovskite Compounds**

COŞKUN F. M. , COŞKUN M., polat ö., TÜRÜT A.

2 rd INTERNATIONAL CONGRESS ON SEMICONDUCTOR MATERIALS AND DEVICES, Ardahan, Turkey, 28 August 2018

- V. ; A Study on The Effect of Doping Ir to LaCrO₃ Perovskites In Terms of All Electrical and Dielectric Properties Through The Impedance Spectroscopy

COŞKUN F. M. , COŞKUN M., polat ö., TÜRÜT A.

2 rd INTERNATIONAL CONGRESS ON SEMICONDUCTOR MATERIALS AND DEVICES, Ardahan, Turkey, 28 August 2018

- VI. FABRICATION OF A NOVEL PEROVSKITE ABSORBER FOR A LONG-TERM STABLE PHOTOVOLTAIC CELL

COŞKUN F. M. , Değirmenci F., Köse M. E.

NANO-TR_12, Kocaeli, Turkey, 03 June 2016, pp.243

- VII. Fabrication of perovskite solar cells with smooth and pinhole-free absorber layer

Köse M. E. , COŞKUN F. M. , Değirmenci F.

NANO-TR_12, Kocaeli, Turkey, 03 June 2016, pp.93

- VIII. Field Effect Transistor Performance of Thiophene End-Capped and Fullerene Pendant Styrene Copolymer

Başaran E., Şennik B., COŞKUN F. M. , COŞKUN M., Yılmaz F.

2 nd International Conference on Organic Electronic Material Technologies (OEMT2016), Çanakkale, Turkey, 17 May 2016

- IX. Efficient Perovskite Solar Cells With Additives in Various Concentrations Using Double Layer Architecture

COŞKUN F. M. , Değirmenci F., KÖSE M. E.

Organic Electronic Materials Technologies Confernece-2015, Elazığ, Turkey, 25 March 2015, pp.46

- X. CURRENT-VOLTAGE (I-V) CHARACTERISTICS OF Sn/GaTe/p-Si/Al RECTIFYING CONTACTS

ÇALDIRAN Z., DENİZ A. R. , COŞKUN F. M. , AYDOĞAN Ş.

ISSTC 2014, İstanbul, Turkey, 01 January 2014, pp.157

- XI. THE ELECTRICAL CHARACTERIZATION of Au/ Fe₃O₄/p-Si/Al RECTIFYING CONTACT WITH Fe₃O₄ INTERFACE

DENİZ A. R. , ÇALDIRAN Z., COŞKUN F. M. , AYDOĞAN Ş.

ISSTC-2014 (International Semiconductor Science and Technology Conference-2014), Turkey, 01 January 2014, pp.156

- XII. THE ELECTRICAL CHARACTERIZATION of Au/Aminopyridine/p-Si/Al RECTIFYING CONTACT WITH ORGANIC INTERFACE

COŞKUN F. M. , ÇALDIRAN Z., DENİZ A. R. , AYDOĞAN Ş.

ISSTC-2014 (INTERNATIONAL SEMICONDUCTOR SCIENCE and TECHNOLOGY CONFERENCE-2014), İstanbul, Turkey, 01 January 2014, pp.29

Supported Projects

COŞKUN F. M. , Project Supported by Higher Education Institutions, "TEMPERATURE DEPENDENT CAPACITANCE AND OTHER ELECTRICAL PROPERTIES OF THE DEVICES WITH A STRUCTURE OF Al_{1-x}Mn_{0.95}O_s0.05O₃pSiAl" başlıklı sözlü sunum ile NEM-2019 kongresine katılım., 2019 - 2020

Türkan M. N. , Can E., Coşkun F. M. , Coşkun M., TUBITAK Project, Kampüste Bilim, Bilimde Şenlik Var, 2019 - 2019

CAN E., KABAĞLU N., COŞKUN F. M. , KOYTAK Z. N. , KEÇECİ K., SAĞIR F., HAZAR M. A. , ALTINEL D., GEREN M., KISAAYAK ÇOLLAK F., et al., Project Supported by Higher Education Institutions, Mühendislik ve Doğa Bilimleri Fakültesi Lisans Programları Eğitim Laboratuvarlarının Kurulması, 2017 - 2018

Can E., COŞKUN F. M. , Project Supported by Other Official Institutions, Sosyo-Ekonomik Düzeyi Düşük Ailelerin Özel Yetenekli Çocuklarının Bilim ve Zeka Oyunları Yöntemi İle Erken Yaşta Tespiti, 2017 - 2018

Coşkun F. M. , Coşkun M., Türüt A., Polat Ö., TUBITAK Project, Novel New Solar Cells: Synthesis and Characterisation of Band Gap Engineered Ferroelectric Photovoltaic (FE-PV) Materials, 2016 - 2018

BAŞARAN E., COŞKUN M., ŞENİK B., COŞKUN F. M. , Project Supported by Higher Education Institutions, Field Effect Transistor Performance of Thiophene EndCapped and Fullerene Pendant Styrene Copolymer (Tiofen uçbaşıklı ve fulleren askılı sitren kopolimerinin alan etkili transistör performansı), 2016 - 2016

TÜRÜT A., AKDENİZ DURAN E., ÖZKAN M. A. , SÖĞÜT S., OKTAY A. B. , ARAS F., GENÇ İ., AKTAŞ Ö., GEREN I. N. , KURT H., et al., Project Supported by Higher Education Institutions, Fen Bilimleri Enstitüsü Disiplinler Arası Lisansüstü Araştırma Laboratuvarlarının Kurulması, 2013 - 2016

TÜRÜT A., BAŞARAN E., GÖRÜR M., COŞKUN F. M. , COŞKUN M., ŞENGEZ B., Project Supported by Higher Education Institutions, Metal/Organik bileşik/inorganik yarıiletken Kontak Yapıların elektronik ve Optik Özelliklerinin Araştırılması, 2013 - 2015

TÜRÜT A., BAŞARAN E., TÜRKAN M., KAVAS H., KURT H., DEMİR A., ŞENGEZ B., SAĞIR F., KOYTAK Z. N. , KECECİ K., et al., Project Supported by Higher Education Institutions, Uluslararası Yarıiletken Bilimi ve Teknoloji Konferansı (International Semiconductor Science and Technology Conference), 2013 - 2014

COŞKUN F. M. , CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Bingöl'de genç Einstein'lar yetişiyor., 2010 - 2011

Memberships / Tasks in Scientific Organizations

ISSTC-2014, Member, 2013 - 2014

Scientific Refereeing

JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, SCI Journal, July 2017

Scientific Research / Working Group Memberships

Yarıiletken ve Optoelektronik Araştırma Grubu, İSTANBUL MEDENİYET ÜNİVERSİTESİ, Turkey,

http://www.medeniyet.edu.tr/fizik_laboratuvarlar_gruplar.html, 2013 - Continues

İSMAM-TEKNOLOJİ ARAŞTIRMALARI, İSTANBUL MEDENİYET ÜNİVERSİTESİ, Turkey, www.medeniyet.edu.tr, 2012 - Continues

Fotonik Araştırma Grubu, TÜBİTAK, Turkey, 2013 - 2016

Edit Congress and Symposium Activities

NANO-TR_12 (2016), Attendee, Kocaeli, Turkey, 2016

Organic Electronic Materials Technologies Conference_OEMT-2015, Attendee, Elazığ, Turkey, 2015

OESS 2014 - Organic Electronics Summer School FRANSA, Attendee, St - Etienne, France, 2014

IWOBOE-2014 : INTERNATIONAL WORKSHOP ON FLEXIBLE BIO-AND ORGANIC PRINTED ELECTRONICS, Attendee, KONYA, Turkey, 2014

ISSTC-2014 (International Semiconductor Science and Technology Conference), Attendee, İstanbul, Turkey, 2014

NANO-TR 9, Attendee, Erzurum, Turkey, 2013

YOĞUN MADDE FİZİĞİ TOPLANTISI, Attendee, İZMİR, Turkey, 2012

Citations

Total Citations (WOS):313

h-index (WOS):11

Awards

COŞKUN F. M. , En İyi Bilimsel Araştırma Projesi, Atatürk Üniversitesi Fen Bilimleri Enstitüsü, May 2014