

Assoc. Prof. MUSTAFA COŞKUN

Personal Information

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Education Information

Doctorate, Marmara Üniversitesi, Fenbilimleri Enstitüsü/Fizik A.B.D, Fizik Bölümü, Turkey 2011 - 2017

Doctorate, University Of California, Davis, College Of Engineering , Electrical And Computer Engineering, United States Of America 2014 - 2015

Postgraduate, Marmara Üniversitesi, Fenbilimleri Enstitüsü/Fizik A.B.D, Fizik Bölümü, Turkey 2008 - 2011

Undergraduate, Marmara Üniversitesi, Atatürk Eğitim Fakültesi, Fizik Eğitimi, Turkey 2003 - 2008

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

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

Education Management and Planning, 6.AB Proje Eğitimi Kampı, Youth-Agenda Derneği, 2012

Dissertations

Doctorate, METAL-OKSİT NANOTEL TABANLI AYGITLARIN ÜRETİMİ VE KARAKTERİZASYONU, Marmara Üniversitesi, Fizik Bölümü, Fizik , 2017

Postgraduate, METAL-OKSİT ARATABAKALI MYY YAPILARIN DİELEKTRİK ÖZELLİKLERİ, Marmara Üniversitesi, Fizik Bölümü, 2011

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Physical Chemistry, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Transport Phenomena in Condensed Matter, Thermal Properties of Condensed Matter, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electronic structure of bulk material, Natural Sciences

Academic Titles / Tasks

Associate Professor, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Engineering Physics, 2020 - Continues

Research Assistant PhD, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Engineering Physics, 2017 - 2020

Research Assistant, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Engineering Physics, 2012 - 2017

Academic and Administrative Experience

Deputy Head of Department, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Engineering Physics, 2020 - Continues

Courses

Electronics 1, Undergraduate, 2017 - 2018, 2018 - 2019

Physics 1, Undergraduate, 2018 - 2019, 2019 - 2020

Physics 2, Undergraduate, 2018 - 2019

Physics 2, Undergraduate, 2018 - 2019

Physics 1, Undergraduate, 2019 - 2020

Physics 1, Undergraduate, 2018 - 2019

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

- I. **Influence of iridium (Ir) doping on the structural, electrical, and dielectric properties of LuFeO₃ perovskite compound**
Polat Ö., Coşkun M., Roupçova P., Sobola D., Durmuş Z., Çağlar M., Sikola T., Türüt A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.877, pp.160282-160296, 2021 (Journal Indexed in SCI)
- II. **Electrical and optical characterization of Os-substituted rare-earth orthoferrite YbFeO_{3-γ} powders**
Polat Ö., Coşkun M., Sobola D., Kurt B. Z. , Çağlar M., Türüt A.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.127, no.1, pp.19-30, 2021 (Journal Indexed in SCI)
- III. **The temperature induced current transport characteristics in the orthoferrite YbFeO_{3-δ} thin film/p-type Si structure**
Polat Ö., Coşkun M., Efeoğlu H., Çağlar M., Coşkun F. M. , Çağlar Y., Türüt A.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.33, no.3, pp.35704-35716, 2021 (Journal Indexed in SCI)
- IV. **Frequency and temperature impact on the electrical properties of LaCr(0.99)Pd(0.01)O(3-&x1e9f;)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)
- V. **Examination of optical properties of YbFeO₃ 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)
- VI. **The influence of cobalt (Co) doping on the electrical and dielectric properties of LaCr_{1-x}CoxO₃ 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)
- VII. **Frequency and temperature-dependent electric modulus spectroscopy of osmium-doped YbFeO₃ structure**
Polat O., COŞKUN M., Kalousek R., Zlamal J., Kurt B. Z. , Caglar Y., Caglar M., TÜRÜT A.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.32, no.6, 2020 (Journal Indexed in SCI)
- VIII. **An investigation of the optical properties of YbFe_{1-x}Ir_xO_{3-δ} (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.109124-109133, 2020 (Journal Indexed in SCI)

- IX. **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)
- X. **Influence of transition element Os substitution on the structural and electrical features of perovskite structure LaCr_{1-x}Os_xO₃**
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)
- XI. **Frequency and voltage dependent electrical properties of YMn_{0.90}Os_{0.10}O₃ thin film on the SiO₂/p-Si substrate**
COŞKUN M.
MATERIALS RESEARCH EXPRESS, vol.6, no.12, 2019 (Journal Indexed in SCI)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **Bridged oxide nanowire device fabrication using single step metal catalyst free thermal evaporation**
COŞKUN M., Ombaba M. M. , DUMLUDAĞ F., ALTINDAL A., ISLAM M. S.
RSC ADVANCES, vol.8, no.19, pp.10294-10301, 2018 (Journal Indexed in SCI)
- XXVII. **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)
- XXVIII. **Solution Processing Grown Alq₃ Microwires for Volatile Organic Compound Vapor Sensing**
COŞKUN M., Dumludağ F., Altındal A.
SENSOR LETTERS, vol.12, no.11, pp.1583-1589, 2014 (Journal Indexed in SCI)
- XXIX. **Schottky barrier diode parameters of Ag/MgPc/p-Si structure**
CANLICA M., COŞKUN M., ALTINDAL A., Nyokong T.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.16, pp.855-860, 2012 (Journal Indexed in SCI)
- XXX. **Dielectric, conduction and interface properties of Au/Pc/p-Si Schottky barrier diode**
ALTINDAL A., COŞKUN M., Bekaroglu O.
SYNTHETIC METALS, vol.162, pp.477-482, 2012 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Synthesis, Characterization and Electrical Admittance Study of LaCrO₃ Perovskite Compound**
COŞKUN M.
Marmara Fen Bilimleri Dergisi, vol.1, pp.29-35, 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. **The Temperature Dependent Capacitance-Voltage Characteristic of Al/YMnO₃/p-Si/Al Structure**
Coşkun M.
International Natural Science, Engineering and Material Technologies Conference (NEM 2019), İstanbul, Turkey, 9

- 10 September 2019, pp.56

- III. ; **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
- 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. **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
- VI. **The influence of SnO₂ film thickness on electronic and dielectric behavior of Au/SnO₂/p-Si structures**
COŞKUN M., Dumludağ F., Altındal A.
International Semiconductor Science and Technology Conference (ISSTC-2014), Turkey, 01 January 2014, pp.15

Supported Projects

- COŞKUN M., Project Supported by Higher Education Institutions, Al_{1/3}MnO₃pSiAl yapısının sıcaklığa bağlı kapasite voltaj karakteristiğinin incelenmesi, 2019 - 2020
- Türkan M. N. , Can E., Coşkun F. M. , Coşkun M., TUBITAK Project, Kampüste Bilim, Bilimde Şenlik Var, 2019 - 2019
- BAŞARAN E., COŞKUN M., ŞENNİK 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 M., TUBITAK Project, Organik/İnorganik Nanotellerin Sentezi ve Analizi, 2013 - 2014
- Coşkun M., Akkoyunlu B., TUBITAK Project, Yağış Alt-olay Örnekleme ve Analizi ile Bulut Altı Temizleme Mekanizmasının İncelenmesi, 2010 - 2012

Scientific Refereeing

- NANOTECHNOLOGY, Journal Indexed in SCI-E, April 2019
- JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, Journal Indexed in SCI-E, March 2019
- NANOTECHNOLOGY, Journal Indexed in SCI-E, February 2019
- JOURNAL OF PHYSICS D-APPLIED PHYSICS, Journal Indexed in SCI-E, December 2018
- NANOTECHNOLOGY, Journal Indexed in SCI-E, November 2018

JOURNAL OF PHYSICS-CONDENSED MATTER, Journal Indexed in SCI-E, October 2018
IONICS, Journal Indexed in SCI-E, October 2018
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, SCI Journal, July 2018
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, July 2018
NANOTECHNOLOGY, Journal Indexed in SCI-E, June 2018
JOURNAL OF PHYSICS D-APPLIED PHYSICS, Journal Indexed in SCI-E, May 2018
MATERIALS RESEARCH EXPRESS, Journal Indexed in SCI-E, April 2018
SENSORS AND ACTUATORS A-PHYSICAL, Journal Indexed in SCI-E, March 2018
NANOTECHNOLOGY, Journal Indexed in SCI-E, January 2018
NANOTECHNOLOGY, Journal Indexed in SCI-E, December 2017

Scientific Research / Working Group Memberships

Integrated Nanodevices & Nanosystems Research, University of California, Davis, United States Of America,
<http://web.ece.ucdavis.edu/~saif/>, 2014 - Continues
İstanbul Medeniyet Araştırmaları Merkezi, İSTANBUL MEDENİYET ÜNİVERSİTESİ, Turkey,
http://www.medeniyet.edu.tr/medeniyet_arastirmalari_merkezi_ismam.html, 2012 - Continues
Nano Aygıtlar Araştırma Grubu, MARMARA ÜNİVERSİTESİ, Turkey, fatihdumludag@marmara.edu.tr, 2012 - Continues
YARIİLETKEN VE OPTOELEKTRONİK ARAŞTIRMA GRUBU, İSTANBUL MEDENİYET ÜNİVERSİTESİ, Turkey,
http://www.medeniyet.edu.tr/fizik_laboratuvarlar_gruplar.html, 2012 - Continues

Edit Congress and Symposium Activities

Organic Opto-electronics SummerSchool, Attendee, Saint Etienne, France, 2014
International Workshop On Flexible Bio and Organic Printed Electronics (IWOBOE- 2014), Attendee, Konya, Turkey,
2014
Solar Energy for World Peace, Attendee, İstanbul, Turkey, 2013

Citations

Total Citations (WOS):310
h-index (WOS):10

Scholarships

2214A Yurt Dışı Doktora Sırası Araştırma Bursu, TÜBİTAK, 2014 - 2015