

## Assoc. Prof. İDRİS CANDAN

### Personal Information

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### International Researcher IDs

ScholarID: K7I5EXcAAAAJ

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Publons / Web Of Science ResearcherID: F-4951-2018

ScopusID: 14041263600

Yoksis Researcher ID: 185744

### Biography

İdris Candan received his Bs degree in Physics Department from [Kocaeli University](#) in 2004. He got his Ms. degree in December 2009 and PhD. degree in February 2016 from [Physics Department](#) of [Middle East Technical University \(METU\)](#). His Ms thesis was on "*Growth and Characterization of  $CuIn_{1-x}Ga_xSe_2$  (CIGS) Thin Films For Solar Cell Structure*" and PhD thesis was on "*Investigation on The Incorporation of Quantum Dot Thin Film Layers in The Organic and Inorganic Solar Cell Structures*". He worked as a Research Assistant at [METU](#) and as a researcher at [The Center for Solar Energy Research and Applications \(GÜNAM\)](#).

He joined the [Device Research Laboratory \(DRL\)](#) in the [Electrical Engineering Department](#) at [University of California, Los Angeles \(UCLA\)](#) on February 2014 as a Visiting Scholar (Visiting Researcher) till January 31, 2015. He worked at [Western Institute of Nanoelectronics \(WIN\)](#) at [UCLA](#) as a Development Engineer from February 1, 2015 through May 28, 2015. His research interests include thin film solar cell, *nanomaterials for flexible electronics and energy converting devices and diluted magnetic semiconductor device*.

He worked as a Research Assistant (Dr.) at [Kocaeli University](#) since June 2016 *from June 2016 to November 2021. He has worked as an Assistant Professor at the same university since November 2021.*

### Education Information

Doctorate, Middle East Technical University, Fen Edebiyat Fakültesi, Fizik, Turkey 2010 - 2016

Postgraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 2006 - 2009

Undergraduate, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, Turkey 2000 - 2004

### Foreign Languages

English, C2 Mastery

### Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electronic structure of bulk material, Magnetic Properties and Materials, Photochemistry of Organics, Natural Sciences

## Academic Titles / Tasks

Assistant Professor, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 2021 - Continues  
Research Assistant PhD, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 2016 - 2021  
Research Assistant, Middle East Technical University, Fen Edebiyat Fakültesi, Fizik, 2004 - 2016  
Expert, University of California, Los Angeles, Henry Samueli School Of Engineering, Electrical Engineering, 2015 - 2015  
Other, University of California, Los Angeles, Henry Samueli School Of Engineering, Electrical Engineering, 2014 - 2015  
Researcher, University of California, Los Angeles, Samueli School of Engineering, Department of Electrical and Computer Engineering, 2014 - 2015

## Courses

Fizik 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Fizik I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Polimer Elektronik, Doctorate, 2023 - 2024, 2022 - 2023  
Fizik II, Undergraduate, 2022 - 2023, 2021 - 2022  
Mesleki İngilizce IV, Undergraduate, 2023 - 2024  
Fizik II, Undergraduate, 2022 - 2023, 2021 - 2022  
Fizik II, Undergraduate, 2022 - 2023, 2017 - 2018  
Thin Films and Thin Film Coating Technics, Postgraduate, 2023 - 2024, 2022 - 2023  
Fizik II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018  
Fizik II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Fizik I, Undergraduate, 2020 - 2021, 2019 - 2020  
Fizik 1, Undergraduate, 2021 - 2022  
Fizik 1, Undergraduate, 2021 - 2022  
Fizik II, Undergraduate, 2020 - 2021, 2019 - 2020  
Fizik I, Undergraduate, 2020 - 2021, 2019 - 2020  
Optik Laboratuvarı, Undergraduate, 2019 - 2020  
Mesleki İngilizce I, Undergraduate, 2019 - 2020

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluation on output parameters of the inverted organic solar cells depending on transition-metal-oxide based hole-transporting materials**  
Çetinkaya Ç., Çokduygulular E., Kınacı B., Güzelçimen F., Candan İ., Efker H. İ., Özen Y., Özçelik S.  
Optical Materials, vol.120, no.1, pp.1-7, 2021 (SCI-Expanded)
- II. **Enhancement of inverted organic solar cell parameters by post-production annealing process**  
Candan İ.  
Semiconductor Science And Technology, vol.36, no.11, pp.1-8, 2021 (SCI-Expanded)
- III. **Supercapacitor performances of titanium-polymeric nanocomposites: a review study**  
Ateş M., Kuzgun Ö., Candan İ.  
Iranian Polymer Journal, vol.30, no.11, pp.1-27, 2021 (SCI-Expanded)
- IV. **Design and fabrication of a semi-transparent solar cell considering the effect of the layer thickness of MoO<sub>3</sub>/Ag/MoO<sub>3</sub> transparent top contact on optical and electrical properties**

- Çetinkaya Ç., Çokduygulular E., Kınacı B., Güzelçimen F., Özen Y., Efkere H. İ., Candan İ., Emik S., Özçelik S.  
Scientific Reports, vol.11, pp.1-17, 2021 (SCI-Expanded)
- V. **Comparison of TiO<sub>2</sub> and ZnO electron selective layers on the inverted-type polymer solar cells**  
Candan İ., Özen Y.  
Polymer Bulletin, vol.78, no.6, pp.3117-3129, 2021 (SCI-Expanded)
- VI. **Determination of surface morphology and electrical properties of MoO<sub>3</sub> layer deposited on GaAs substrate with RF magnetron sputtering**  
Çetinkaya Ç., Çokduygulular E., Özen Y., Candan İ., Kınacı B., Özçelik S.  
Journal Of Materials Science-Materials In Electronics, vol.4, pp.1-10, 2021 (SCI-Expanded)
- VII. **SnO<sub>2</sub> interlayer effects on the inverted polymer solar cells**  
Özen Y., Candan İ.  
Chemical Physics Letters, vol.740, pp.1-5, 2020 (SCI-Expanded)
- VIII. **PbS quantum dot enhanced p-CIGS/n-Si heterojunction diode**  
Candan İ., Parlak M., Ercelebi C.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, pp.2127-2135, 2019 (SCI-Expanded)
- IX. **Layer-by-layer hybrid chemical doping for high transmittance uniformity in graphene-polymer flexible transparent conductive nanocomposite**  
Biswas C., Candan I., Alaskar Y., Qasem H., Zhang W., Stieg A. Z., Xie Y., Wang K. L.  
SCIENTIFIC REPORTS, vol.8, 2018 (SCI-Expanded)
- X. **Active carbon/graphene hydrogel nanocomposites as a symmetric device for supercapacitors**  
Ates M., Cinar D., Caliskan S., Gecgel U., Uner O., Bayrak Y., Candan I.  
FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES, vol.24, pp.427-434, 2016 (SCI-Expanded)
- XI. **Device behavior of an In/p-Ag(Ga,In)Te-2/n-Si/Ag heterojunction diode**  
COŞKUN E., Gullu H. H., Candan I., Bayrakli O., PARLAK M., Ercelebi C.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.34, pp.138-145, 2015 (SCI-Expanded)
- XII. **Investigation of structural and optical parameters of Cu-Ag-In-Se thin films deposited by thermal evaporation method**  
Gullu H. H., Candan I., Coşkun E., Parlak M.  
OPTİK, vol.126, no.18, pp.1578-1583, 2015 (SCI-Expanded)
- XIII. **Structural and optical properties of Zn-In-Te thin films deposited by thermal evaporation technique**  
Gullu H. H., Bayrakli O., Candan I., COŞKUN E., PARLAK M.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.566, pp.83-89, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Boşluk Taşıma Katmanının (HTL) Ters Çevrilmiş Organik Güneş Hücre Parametrelerine Etkisi**  
CANDAN İ., ÖZEN Y., KINACI B.  
Gazi Üniversitesi Fen Fakültesi Dergisi, vol.3, no.2, pp.123-132, 2022 (Peer-Reviewed Journal)
- II. **PbS Kuantum Nokta İnce Filmlerin Üretilmesi ve Karakterizasyonu**  
Candan İ.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.8, no.4, pp.1021-1033, 2020 (Peer-Reviewed Journal)
- III. **P3HT:PCBM Fotoaktif Tabanlı Tersine Çevrilmiş Polimer Güneş Hücrelerinin Üretimi ve Karakterizasyonu**  
CANDAN İ., ÖZEN Y.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.7, no.4, pp.916-926, 2019 (Peer-Reviewed Journal)
- IV. **Comparative Study on The Properties of CuInSe<sub>2</sub> and CuGaSe<sub>2</sub> Thin Films**  
Candan İ., Güllü H. H.  
Avrupa Bilim ve Teknoloji Dergisi, no.15, pp.77-85, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Hot Pressing of Doped ZnO Diluted Magnetic Semiconductors for Spintronic Device Applications and Investigation of Structural Properties**  
Candan İ., Yavuz H. İ., Yamanoğlu R.  
in: Current Debates in Natural and Engineering Sciences 10, HİKMET YETER ÇOĞUN, FERİT KARGIN, Editor, BİDGE Yayınları, Ankara, pp.240-256, 2023

## Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of PbS Quantum Dot Nanoparticles on The Dielectric Properties of Nematic Liquid Crystals**  
Aydın D. B., Taştan L., Kocakoç M., El Abboubi M., Candan İ., San S. E.  
International Conference on Advanced Materials Science & Engineering and High Tech Devices Applications; Exhibition (ICMATSE 2024), Ankara, Turkey, 24 - 26 October 2024, pp.175-177
- II. **Employment of black phosphorous in nematic liquid crystals for enhancing their dielectric properties**  
El Abboubi M., Kocakoç M., Aydın D. B., Taştan L., Candan İ., San S. E.  
International Conference on Advanced Materials Science & Engineering and High Tech Devices Applications; Exhibition (ICMATSE 2024), Ankara, Turkey, 24 - 26 October 2024, pp.192-194
- III. **Morphological investigation of polymer solar cell layers using atomic force microscopy and Raman spectroscopy**  
Candan İ.  
International Conference on Advanced Materials Science & Engineering and High Tech Devices Applications; Exhibition (ICMATSE 2020), Ankara, Turkey, 2 - 04 October 2020, pp.184-185
- IV. **Effects of Metal Oxide Layer Deposition Technique on Organic Polymer Solar Cells Efficiency**  
Candan İ.  
4th. International Marmara Sciences Congress, IMASCON 2020 Spring, Kocaeli, Turkey, 19 - 20 June 2020, pp.1
- V. **PbS Quantum Dots Layer Effect on Ag/n-Si/p-CIGS/PbS QDs/In Heterojunction Diode**  
Candan İ., Erçelebi A. Ç.  
2017 MRS Fall Meeting Exhibit, Massachusetts, United States Of America, 26 November - 01 December 2017
- VI. **Production of Graphene Based Upconversion Material Assist Solar Cells**  
Duru A. S., Yavuz H. İ., Candan İ.  
2017 MRS Fall Meeting Exhibit, Massachusetts, United States Of America, 26 November - 01 December 2017
- VII. **Defect Mediated Ferromagnetism in Mn Gd doped ZnO Nanocrystals**  
Akyol M., Kılıç Çetin S., Candan İ., Ekicibil A.  
2nd International Congress on The World of Technology and Advanced Materials, Kırşehir, Turkey, 28 September - 02 October 2016
- VIII. **Optimizing New Type Nano Composite Infrared to Ultraviolet Up Conversion Luminescence Layer for Efficient Anatase Titania Film Based Dye Sensitized Solar Cell**  
YAVUZ H. İ., CANDAN İ., YETKİN S.  
2016 MRS Spring Meeting Exhibit, Phoenix, United States Of America, 28 March - 01 April 2016
- IX. **Formation of ZnSnSe<sub>2</sub> Thin Films Deposited by Using Sintered Stoichiometric Powder**  
Güllü H. H., Bayraklı Ö., Candan İ., Parlak M.  
2016 MRS Spring Meeting & Exhibite, Arizona, United States Of America, 28 March - 01 April 2016
- X. **Characterization of Ag Ga In Te Thin Film for Solar Cell Applications**  
Bayraklı Ö., Güllü H. H., Candan İ., Coşkun E., Parlak M.  
Science and Applications of Thin Films, Conference and Exhibition, İzmir, Turkey, 15 - 19 September 2014
- XI. **Characterization of Sputtered Cu Zn Sn Te Thin Films for Device Applications**  
GÜLLÜ H. H., COŞKUN E., BAYRAKLI Ö., CANDAN İ., PARLAK M.  
E-MRS Spring Meeting 2014, Lille, France, 26 - 30 May 2014

- XII. **Cu-Zn-Sn-Te İnce Filmlerin Yapısal ve Optik Özelliklerinin İncelenmesi**  
GÜLLÜ H. H., CANDAN İ., SÜRÜCÜ Ö., PARLAK M.  
Yoğun Madde Fiziği 19, Bilkent, Turkey, 20 December 2013
- XIII. **Güneş Pili Uygulamalarında Soğurucu Katman Olarak Kullanılan Cu(In,Ga)Se (CIGS) İnce Filmlerinin Üretimi ve Karakterizasyonu.**  
Candan İ., Güllü H. H., Parlak M., Erçelebi A. Ç.  
Yoğun Madde Fiziği 19, Bilkent Ün., Ankara, Turkey, 20 December 2013
- XIV. **Saçtırma Yöntemi Kullanılarak Üretilen TiO<sub>2</sub> İnce Filmlerde Üretim Süresinin Yapı ve Optik Özelliklere Etkisi**  
Hosseini A., Candan İ., Güllü H. H., Erçelebi A. Ç.  
Yoğun Madde Fiziği 19, Bilkent Ün., Ankara, Turkey, 13 - 20 December 2013
- XV. **Characterization of co evaporated Cu Ag In Se thin film by the physical vapor deposition**  
GÜLLÜ H. H., CANDAN İ., PARLAK M.  
9th Nanoscience and Nanotechnology Conference, Erzurum, Turkey, 24 - 28 June 2013
- XVI. **Structural characterization of aluminum induced polycrystalline silicon films**  
Kılıçerkan G., Candan İ., Güllü H. H., Turan R., Ertuğrul M.  
9th Nanoscience and Nanotechnology Conference, Erzurum, Turkey, 24 - 28 June 2013
- XVII. **Growth and optimization of ZIT thin films for photovoltaic applications**  
CANDAN İ., GÜLLÜ H. H., BAYRAKLI Ö., PARLAK M., ERÇELEBİ A. Ç.  
9th Nanoscience and Nanotechnology Conference, Erzurum, Turkey, 24 - 28 June 2013
- XVIII. **Growth and characterization of Ga rich CuIn<sub>1-x</sub>Ga<sub>x</sub>Se<sub>2</sub> CIGS thin films by sputtering technique for photovoltaic application**  
CANDAN İ., GÜLLÜ H. H., BAYRAKLI Ö., PARLAK M., ERÇELEBİ A. Ç.  
E-MRS Spring Meeting 2013, Strasbourg, France, 27 - 31 May 2013
- XIX. **Investigation of the physical properties of Cu In Zn Se Thin Films Deposited by Sputtering**  
GÜLLÜ H. H., CANDAN İ., BAYRAKLI Ö., ERÇELEBİ A. Ç., PARLAK M.  
E-MRS Spring Meeting 2013, Strasbourg, France, 27 - 31 May 2013
- XX. **ITO/TiO<sub>2</sub>/CdTe/Au ince film hetero-eklem aygıtların karakterizasyonu**  
Hosseini A., CANDAN İ., GÜLLÜ H. H., ERÇELEBİ A. Ç.  
Yoğun Madde Fiziği – İzmir Toplantısı, İzmir, Turkey, 05 April 2013
- XXI. **Effect of In Ga Ratio on The Properties of Semiconductor CuIn<sub>1-x</sub>Ga<sub>x</sub>Se<sub>2</sub> CIGS Thin Films**  
CANDAN İ., GÜLLÜ H. H., BAYRAKLI Ö., PARLAK M., ERÇELEBİ A. Ç.  
Solar TR-2, Antalya, Turkey, 6 - 09 November 2012
- XXII. **Saçtırma (Sputtering) Tekniği ile Ag-Zengini Üretilen Cu<sub>1-x</sub>Ag<sub>x</sub>InSe<sub>2</sub> İnce Filmlerin Karakterizasyonu**  
GÜLLÜ H. H., CANDAN İ., PARLAK M., ERÇELEBİ A. Ç.  
Yoğun Madde Fiziği – İzmir Toplantısı, İzmir, Turkey, 06 April 2012
- XXIII. **CIGS İnce Filmlerde Isıl İşlemin Yarıiletken Özelliklere Olan Etkisi**  
CANDAN İ., GÜLLÜ H. H., PARLAK M., ERÇELEBİ A. Ç.  
Yoğun Madde Fiziği – İzmir Toplantısı, İzmir, Turkey, 06 April 2012
- XXIV. **The Structural and Optical Analyzing of CIGS Thin Films Deposited by Sputtering Technique**  
CANDAN İ., GÜLLÜ H. H., PARLAK M., ERÇELEBİ A. Ç.  
7th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 27 June - 01 July 2011
- XXV. **Investigation of Structural Electrical and Optical Properties of Cu<sub>1-x</sub>Ag<sub>x</sub>InSe<sub>2</sub> Thin Films with Different Cu Ag Ratios**  
GÜLLÜ H. H., CANDAN İ., PARLAK M., ERÇELEBİ A. Ç.  
7th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 27 June - 01 July 2011
- XXVI. **Characterization of CIGS Thin Films Deposited with Double Sources e beam Evaporation by the Three stage Process**  
CANDAN İ., PARLAK M., ERÇELEBİ A. Ç.  
E-MRS Spring Meeting 2010, Strasbourg, France, 7 - 11 June 2010
- XXVII. **Electrical and Optical Characterization of CuIn<sub>0.5</sub>Ga<sub>0.5</sub>Se<sub>2</sub> Thin Films Deposited by Electron Beam**

### **Technique for Solar Cell Structures**

CANDAN İ., KARAAĞAÇ H., PARLAK M., ERÇELEBİ A. Ç.

Solar TR-1, Ankara, Turkey, 29 - 30 April 2010

### **XXVIII. The Device Behaviors of p Si n Ag In Se Junction**

KALELİ M., PARLAK M., KARAAĞAÇ H., ERÇELEBİ A. Ç., CANDAN İ.

E-MRS Spring Meeting 2009, Strasbourg, France, 8 - 12 June 2009

### **XXIX. Annealing Effects on the Structural and Optical Properties of AgGa0.5In0.5Se2 Thin Films Deposited by Electron Beam Technique**

KARAAĞAÇ H., PARLAK M., CANDAN İ., KALELİ M.

E-MRS Spring Meeting 2009, Strasbourg, France, 8 - 12 June 2009

## **Supported Projects**

CANDAN İ., SAN S. E., EL ABOUBI M., ERDEM M., Project Supported by Higher Education Institutions, Lityum İyon Bataryalarda Siyah Fosfor Tabanlı Anot Heteroyapılarının Optimizasyonu için Sinerjik Deneysel ve Hesaplamalı Yaklaşımlar, 2024 - Continues

CANEL T., CANDAN İ., GOLDENBERG E., Project Supported by Higher Education Institutions, Yeni Nesil Nanoyapılı Fonksiyonel VS2 Malzemelerin Geliştirilmesi NextVAS, 2024 - Continues

CANDAN İ., TAŞTAN L., SAN S. E., AYDIN D. B., KAZAN S., Project Supported by Higher Education Institutions, Yapay Zeka Uygulamalarında Nöromorfik Hesaplamalar için Kullanılan Memristor Donanımının Üretilmesi ve İncelenmesi, 2024 - Continues

SAN S. E., KAZAN S., AYDIN D. B., KARAKOÇ TOPRAKOĞLU M., TAŞTAN L., AYDIN G., CANDAN İ., Project Supported by Higher Education Institutions, Kurşun Sülfür Pbs Kuantum Noktalarının Nematik Sıvı Kristallere NLC Katılmasıyla Yapısal ve ElektroOptik Özelliklerinin Geliştirilmesi, 2024 - Continues

SAN S. E., Al Edresi A. A. W. A., KAZAN S., CANDAN İ., Aydın G., Project Supported by Higher Education Institutions, MEMRİSTÖRLER: Tasarımı, Üretimi ve Karakterizasyonu, 2024 - Continues

CANDAN İ., YAVUZ H. İ., YAMANOĞLU R., Project Supported by Higher Education Institutions, Spintronik aygıt uygulamaları için NiCr katkılı ZnO seyreltilmiş manyetik yarıiletkenlerin sıcak pres yöntemi ile üretilmesi ve manyetoelektronik özelliklerinin incelenmesi, 2020 - 2023

Özen Y., Candan İ., Çetinkaya Ç., Kınacı B., Project Supported by Higher Education Institutions, Organik Güneş Hücreleri için Boşluk Transport Tabakalarının Geliştirilmesi ve Verimliliğe Etkisinin İncelenmesi, 2020 - 2021

Parlak M., Erçelebi A. Ç., Candan İ., Project Supported by Higher Education Institutions, Fabrication and investigation of CuSn(S,Se yada Te)<sub>2</sub> ve CuZn n(Se,S)<sub>2</sub> thin film properties by utilizing thermal evaporation and sputtering techniques. lenmesi, 2014 - 2014

Parlak M., Erçelebi A. Ç., Candan İ., Bayraklı Ö., Project Supported by Higher Education Institutions, Production and investigation of CuZnSnTe<sub>2</sub> thin films by magnetic scattering technique, 2013 - 2013

## **Activities in Scientific Journals**

European Journal of Technique, Editor, 2019 - Continues

## **Scientific Refereeing**

Results in Surfaces and Interfaces, Journal Indexed in ESCI, November 2024

JOURNAL OF OPTICS (INDIA), Journal Indexed in ESCI, November 2024

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, October 2024

Discover Nano, Journal Indexed in SCI-E, September 2024

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, SCI Journal, July 2024

POLYMER BULLETIN, Journal Indexed in SCI-E, December 2023  
MATERIALS LETTERS, Journal Indexed in SCI-E, October 2023  
POLYMER BULLETIN, SCI Journal, October 2023  
Project Supported by Higher Education Institutions, BAP Research Project, Gazi University, Turkey, October 2023  
Journal of Polymer Science, SCI Journal, May 2023  
SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ FEN DERGİSİ = SÜLEYMAN DEMİREL UNIVERSITY  
FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, National Scientific Refreed Journal, April 2023  
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, October 2022  
Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, National Scientific Refreed Journal, August 2022  
AFYON KOCATEPE ÜNİVERSİTESİ FEN VE MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, August  
2022  
POLYMER BULLETIN, Journal Indexed in SCI-E, August 2022  
Project Supported by Higher Education Institutions, BAP Research Project, Bursa Uludağ University, Turkey, June 2022  
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, May 2022  
JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, February 2022  
JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, February 2022  
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, December 2021  
E-POLYMERS, SCI Journal, November 2021  
POLYMER BULLETIN, SCI Journal, October 2021  
CELAL BAYAR ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, September 2021  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, August 2021  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, July 2021  
Project Supported by Higher Education Institutions, BAP Research Project, Yıldız Technical University, Turkey, July 2021  
Project Supported by Higher Education Institutions, BAP Research Project, Yıldız Technical University, Turkey, July 2021  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, May 2021  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, May 2021  
JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, February 2021  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, February 2021  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, February 2021  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, September 2020  
POLYMER BULLETIN, SCI Journal, July 2020  
CHEMICAL PHYSICS LETTERS, SCI Journal, July 2020  
BALKAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, National Scientific Refreed Journal, May 2020  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E,  
February 2020  
JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, February 2020  
JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, February 2020  
CHEMICAL PHYSICS LETTERS, SCI Journal, January 2020  
POLYMER BULLETIN, SCI Journal, December 2019  
CHEMICAL PHYSICS LETTERS, Journal Indexed in SCI-E, December 2019  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, December 2019  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, August 2019  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, May 2019  
JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, May 2019  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, March 2019  
Balkan Journal of Electrical and Computer Engineering, National Scientific Refreed Journal, June 2018  
JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, June 2018  
International Journal of Energy Applications and Technologies, National Scientific Refreed Journal, December 2017  
European Journal of Technic (EJT), National Scientific Refreed Journal, October 2017  
Technopark, Middle East Technical University, Turkey, September 2016

## **Scientific Consultations**

ÖLÇME, SEÇME VE YERLEŐTİRME MERKEZİ (ÖSYM), ANKARA, Scientific Consultancy, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, Turkey, 2018 - 2019

## **Tasks In Event Organizations**

Candan İ., Advanced Materials Science and Engineering and High-Tech Device Applications, Scientific Congress, Ankara, Turkey, Ekim 2024

Candan İ., IEEE Global Energy Conference 2022, Scientific Congress, Batman, Turkey, Ekim 2022

## **Metrics**

Publication: 48

Citation (WoS): 134

Citation (Scopus): 146

H-Index (WoS): 8

H-Index (Scopus): 9

## **Non Academic Experience**

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