

## Assoc. Prof. Özlem YAĞCI

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: HKM-4025-2023

ScopusID: 55900598100

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### Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, Turkey 2011 - 2016

Postgraduate, Marmara University, Faculty Of Arts And Sciences, Physics, Turkey 2008 - 2011

Undergraduate, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, Turkey 2004 - 2008

### Dissertations

Doctorate, Borikasıit katkılanmış ve gama ışını dozlanmış PEDOT: PSS tabakasının P3HT:PCBM esaslı fotovoltaik hücrelerde kullanılması, Yildiz Technical University, Faculty of Arts & Science, Department of Physics, 2016

Postgraduate, Organik tabanlı güneş pillerinin üretimi ve karakterizasyonu, Marmara University, Fen - Edebiyat Fakültesi, Fizik Bölümü, 2011

### Research Areas

Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures

### Academic Titles / Tasks

Lecturer PhD, Yildiz Technical University, Rectorate, -, 2013 - Continues

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

- I. **One-step chronoamperometric synthesis of S, N co-doped graphene oxide electrodes for nonenzymatic electrochemical H<sub>2</sub>O<sub>2</sub> sensor**  
Koçyiğit N., Dinç Zor Ş., Yağci Ö., Arvas M. B.  
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, 2024 (SCI-Expanded)
- II. **Synthesis of co-doped metal dichalcogenides (MoS<sub>2</sub>:WS<sub>2</sub>) on carbon felt electrode by hydrothermal method and supercapacitor application**  
Yağci Ö., Arvas M. B., Yazar Aydoğan S.

MATERIALS CHEMISTRY AND PHYSICS, 2024 (SCI-Expanded)

- III. **ZnO-NF/Graphene/Nafion as electrode platform for some pharmaceutical active ingredients sensor and energy storage applications**  
Koçyiğit N., Dinç Zor Ş., Yağci Ö., Uzunçam Ş. B., Arvas M. B.  
SYNTHETIC METALS, 2024 (SCI-Expanded)
- IV. **Effect of Mo and W co-doping on optical, morphological, electrical and electrochemical properties of Co3O4 thin film**  
Yağci Ö.  
PHYSICA B: CONDENSED MATTER, 2024 (SCI-Expanded)
- V. **The effect of zinc and sodium borate doping on the structural, morphological, optical, electrical and electrochemical properties of PEDOT:PSS thin film electrodes for flexible and transparent supercapacitor applications**  
YAĞCi Ö., ARVAS M. B., AYDIN YÜKSEL S.  
New Journal of Chemistry, vol.48, no.9, pp.4096-4108, 2024 (SCI-Expanded)
- VI. **The effect of boron doping on the optical, morphological and structural properties of Cu3SbS3 thin films prepared via spin coating**  
Yağci Ö., Aydın Yüksel S., Bozkurt K., Altındal A.  
NEW JOURNAL OF CHEMISTRY, 2023 (SCI-Expanded)
- VII. **Effect of gamma irradiation on structural, morphological, optical and thermal properties of Ca doped CuO nanostructure thin films**  
YAĞCi Ö.  
Radiation Effects and Defects in Solids, vol.178, no.3-4, pp.521-538, 2023 (SCI-Expanded)
- VIII. **Improving the electrical conductivity and electrochemical properties of PEDOT:PSS thin films by Ca and Mg doping**  
YAĞCi Ö., ÖZDEMİR O. K.  
POLYMER BULLETIN, vol.79, no.12, pp.11493-11509, 2022 (SCI-Expanded)
- IX. **Facile and single step produced Ba:Sn-codoped PEDOT:PSS thin film electrode with improved optics and electrochemical properties for transparent and flexible supercapacitor applications**  
YAĞCi Ö., ARVAS M. B., YAZAR AYDOĞAN S.  
New Journal of Chemistry, vol.46, no.46, pp.22130-22142, 2022 (SCI-Expanded)
- X. **Thermal, structural and morphological properties of polypropylene and high density polyethylene polymer composites filled with waste urea formaldehyde**  
Yağci Ö., Gümüş B., Taşdemir M.  
POLYMER BULLETIN, 2022 (SCI-Expanded)
- XI. **High-density polyethylene/artichoke leaf powder polymer composites: dynamic mechanical, morphological and thermal properties**  
Gümüş B., Yağci Ö., Taşdemir M.  
Iranian Polymer Journal, 2022 (SCI-Expanded)
- XII. **Effervescence-assisted liquid phase microextraction prior to slotted quartz tube-flame atomic absorption spectrometry for cadmium determination in domestic wastewater samples**  
Borahan T., Karlıdağ N. E., YAĞCi Ö., BAKIRDERE S.  
Chemical Papers, vol.75, pp.6307-6314, 2021 (SCI-Expanded)
- XIII. **Preconcentration of tellurium using magnetic hydrogel-assisted dispersive solid-phase extraction and its determination by slotted quartz tube-flame atomic absorption spectrophotometry**  
Demir C., ÖZTÜRK ER E., Kartoglu B., Atsever N., YAĞCi Ö., Oner M., BAKIRDERE S.  
CHEMICAL PAPERS, vol.75, no.8, pp.4261-4267, 2021 (SCI-Expanded)
- XIV. **Thermal, structural and dynamical mechanical properties of hollow glass sphere-reinforced polypropylene composites**  
YAĞCi Ö., Eker Gumus B., TAŞDEMİR M.  
POLYMER BULLETIN, vol.78, no.6, pp.3089-3101, 2021 (SCI-Expanded)
- XV. **THERMAL, STRUCTURAL AND MORPHOLOGICAL CHARACTERIZATION OF DENTAL POLYMERS FOR**

## CLINICAL APPLICATIONS

Benli M., Gümüş B., Kahraman Y., Yağci Ö., Ceylan Erdoğan D.

JOURNAL OF PROSTHODONTIC RESEARCH, vol.65, no.2021, pp.1-9, 2020 (SCI-Expanded)

- XVI. **Nano-sized magnetic Ni particles based dispersive solid-phase extraction of trace Cd before the determination by flame atomic absorption spectrometry with slotted quartz tube: a new, accurate, and sensitive quantification method**  
YAĞCI Ö., AKKAYA E., BAKIRDERE S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.192, no.9, 2020 (SCI-Expanded)
- XVII. **Ethanol sensing with pure and boric acid doped electrospun CuInS<sub>2</sub> nanofibers in the presence of relative humidity**  
YAĞCI Ö., ARAT R., SARIER N., OMUR B. C., ALTINDAL A.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.104, 2019 (SCI-Expanded)
- XVIII. **Dynamical Mechanical Properties of Polypropylene Composites Filled with Olive Pit Particles**  
EKER GÜMÜŞ B., YAĞCI Ö., CEYLAN ERDOĞAN D., TAŞDEMİR M.  
JOURNAL OF TESTING AND EVALUATION, pp.1-12, 2019 (SCI-Expanded)
- XIX. **Gamma-ray irradiation effect on mechanical and dielectric properties of volcanic basalt mineral reinforced low density polyethylene films**  
KILIÇ M., KARABUL Y., ALKAN U., YAĞCI Ö., OKUTAN M., OKUTAN M., İÇELLİ O.  
Physicochemical Problems of Mineral Processing, vol.53, no.1, pp.578-590, 2017 (SCI-Expanded)
- XX. **Investigating the performance of P3HT:PCBM organic solar cells involving gamma-irradiated PEDOT:PSS layer**  
YAĞCI Ö., YEŞİLKAYA S. S., OKUTAN M., İÇELLİ O.  
RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.172, pp.805-814, 2017 (SCI-Expanded)
- XXI. **Effect of boric acid doped PEDOT:PSS layer on the performance of P3HT: PCBM based organic solar cells**  
YAĞCI Ö., YEŞİLKAYA S. S., YUKSEL S., ONGUL F., VARAL N. M., KUS M., GÜNEŞ S., İÇELLİ O.  
SYNTHETIC METALS, vol.212, pp.12-18, 2016 (SCI-Expanded)
- XXII. **Photon parameters for gamma-rays sensing properties of some thick oxide films**  
KAVANOZ H. B., YAĞCI Ö., YALÇIN Z., İÇELLİ O., ALTINDAL A., OKUTAN M., MANN K. S.  
VACUUM, vol.101, pp.238-245, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Electrochemical, Optical and Morphological Characterizations of Cu Doped ZnO Nanostructure Thin Films Prepared by Spin Coating Method**  
Yağci Ö.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.21, pp.1306-1314, 2021 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Üçlü Bakır, Bor ve Kobalt Katkılı PEDOT:PSS İnce Filmlerinin Morfolojik, Yapısal, Optik ve Elektrokimyasal Özellikleri**  
Yağci Ö., Özdemir O. K.  
35. Ulusal Kimya Kongresi, Diyarbakır, Turkey, 9 - 12 September 2024
- II. **S, N eş katkılı grafen oksit elektrotların kronoamperometrik yöntem ile tek adımlı sentezi ve H<sub>2</sub>O<sub>2</sub> elektrokimyasal sensörü**  
Koçyiğit N., Dinç Zor Ş., Yağci Ö., Arvas M. B.  
35. Ulusal Kimya Kongresi, Diyarbakır, Turkey, 9 - 12 September 2024

- III. **Production and characterization of copper antimony sulfide films for solar cell applications**  
Çelik E., Yağci Ö., Aydın Yüksel S.  
Türk Fizik Derneği 40. Uluslararası Fizik Kongresi, Muğla, Turkey, 2 - 06 September 2024
- IV. **Kalsiyum Katkılanmış Bakır Oksit İnce Filmlerin Morfolojik ve Yapısal Karakterizasyonları**  
Yağci Ö.  
33. Ulusal Kimya Kongresi , Tekirdağ, Turkey, 7 - 09 October 2021, pp.1
- V. **Morphological and Optical Properties of Cu Doped ZnO Nanostructure**  
Yağci Ö.  
IMSTEC 2020, Nevşehir, Turkey, 16 - 18 October 2020, pp.1
- VI. **Kalsiyum Klorür Dihidrat'ın PEDOT:PSS İnce Filmlerinin Yüzey Morfolojisi, Optik, Yapısal Ve Termal Özellikleri Üzerindeki Etkisi**  
Yağci Ö.  
UKMK 2018 , Van, Turkey, 3 - 06 September 2018, pp.1
- VII. **OPTICAL, STRUCTURAL AND THERMAL PROPERTIES OF PEDOT:PSS THIN FILMS DOPED WITH NORYL**  
Yağci Ö., İçelli O.  
IMSMATEC 2018, İzmir, Turkey, 10 - 12 April 2018, pp.1
- VIII. **PREPARATION OF PEDOT:PSS POWDER DOPED WITH BORAX**  
Yağci Ö.  
IMSMATEC 2018, İzmir, Turkey, 10 - 12 April 2018, pp.1
- IX. **Effect of Boric Acid Doped Pedot:PSS Layer on the Photovoltaic Parameters of P3HT:PCBM Based PV Cell**  
Eyecioglu O., Beken M., Yağci Ö., İÇELLİ O.  
7th International Conference on Renewable Energy Research and Applications (ICRERA), Paris, France, 14 - 17 October 2018, pp.973-975
- X. **The ANFIS as a Prediction Method of Efficiency of PV Cells**  
Beken M., Kayisli K., Eyecioglu O., Yağci Ö., İÇELLİ O.  
7th International Conference on Renewable Energy Research and Applications (ICRERA), Paris, France, 14 - 17 October 2018, pp.1389-1391
- XI. **Effect of Impurity Doping on the Optical Properties ZnS Films**  
Ulutaş Ü., YEŞİLKAYA S. S., KARABUL Y., YAĞCI Ö.  
TPS-33 International Physics Congress, Muğla, Turkey, 06 September 2017, pp.603
- XII. **Electrospun nanofibers of boric acid doped copper indium disulfide**  
YAĞCI Ö., Arat R., SARIER N., ALTINDAL A.  
TFD 33, 6 - 10 September 2017
- XIII. **Polydopamine coated glass bubbles for removing copper ions from aqueous solutions**  
YAĞCI Ö., CEYLAN ERDOĞAN D., KAHRAMAN Y., ORUÇ M. E.  
TFD 33, 6 - 10 September 2017
- XIV. **Effect of Low Dose Gamma Radiation on Boricacid doped PEDOT PSS films**  
YAĞCI Ö., YEŞİLKAYA S. S., İÇELLİ O.  
TFD 32 International Physics ConferenceI, 6 - 09 September 2016
- XV. **Use of boron mineral wastes in the photovoltaic applications**  
YAĞCI Ö., YEŞİLKAYA S. S., İÇELLİ O.  
TFD31, 21 - 24 July 2016
- XVI. **Dielectric Characterization of Conducting Polymers Borax Composites**  
KILIÇ M., KARABUL Y., ERDÖNMEZ S., BULGURCUOĞLU A. E., YAĞCI Ö., Alkan Ü., OKUTAN M., İÇELLİ O.  
oemt2016, 17 - 19 May 2016
- XVII. **Dielectric Characterization of Conducting Polymers/Borax Composites**  
Kılıç M., Karabul Y., Erdönmez S., Bulgurcuoğlu A. E., Yağci Ö., Alkan Ü., Okutan M., İçelli O.  
2nd International Conference on Organic Electronic Material Technologies (OEMT-2016), Çanakkale, Turkey, 17 - 19 May 2016
- XVIII. **In the Room Conditions Improved Efficiency of Organic Solar Cells Using of Boron Compounds**

Yađci Ö., Yeşilkaya S. S., Aydın Yüksel S., Ongül F., Türkođlu Bozar S., Güneş S., İçelli O.

1st International Conference on Organic Electronic Material Technologies, Elazığ, Turkey, 25 - 27 March 2015, pp.105

**XIX. Photon parameters for gamma-rays and gas sensing properties of some thick oxide films**

YAĐCI Ö., KAVANOZ H. B., YALÇIN Z., ALTINDAL A., İÇELLİ O., OKUTAN M.

TFD 30 - Türk Fizik Derneđi 30. Uluslararası Fizik Kongresi, 2 - 05 September 2013

## Supported Projects

TATLIPINAR H., BOZKURT K., AYDIN YÜKSEL S., YAĐCI Ö., ALTINDAL A., Çokcoşkun Ş., Project Supported by Higher Education Institutions, İnorganik ince film tabanlı gaz sensörlerinde kuantum etkilerin incelenmesi, 2024 - Continues

YAĐCI Ö., ÖZDEMİR O. K., ÖZDEMİR O., BOZKURT K., Project Supported by Higher Education Institutions, Borik Asit Katkılanmış Cu<sub>3</sub>SbS<sub>3</sub> Tabakasının Silikon Tabanlı Fotovoltaik Hücrelerde Kullanılması, 2021 - 2023

Yeşilkaya S. S., İçelli O., TUBITAK Project, Usage of Boron Mineral Wastes in Photovoltaic Applications, 2014 - 2016

YAĐCI Ö., İÇELLİ O., Project Supported by Higher Education Institutions, Farklı Metal Grupları İçeren Ftalosiyanınlerin Foto-Voltaik Uygulamalarda Kullanılması, 2013 - 2016

## Patent

Yađci Ö., PEDOT:PSS Film ve Üretimi, Patent, CHAPTER G Physics, The Invention Registration Number: 2022016608 , Standard Registration, 2024

İçelli O., Güneş S., Aydın Yüksel S., Yeşilkaya S. S., Yađci Ö., PEDOT:PSS film üretiminde borik asit kullanımı, Patent, CHAPTER G Physics, The Invention Registration Number: TR201508718B , Standard Registration, 2021

Yeşilkaya S. S., İçelli O., Yađci Ö., Usage of Boric Acid in the Production of PEPOT:PSS Film, Patent, CHAPTER G Physics, The Invention Registration Number: US20180287083A1 , Standard Registration, 2019

## Activities in Scientific Journals

Royal Society of Chemistry, Evaluation Committee Member, 2022 - Continues

## Metrics

Publication: 42

Citation (WoS): 49

Citation (Scopus): 113

H-Index (WoS): 3

H-Index (Scopus): 6

## Congress and Symposium Activities

33. Kimya Kongresi, Session Moderator, Tekirdađ, Turkey, 2021

## Scholarships

2211-C Öncelikli Alanlara Yönelik Yurt İçi Doktora Burs Programı , TUBITAK, 2013 - 2016

## **Awards**

Yađci ., Onur ğrencisi, Kocaeli niversitesi , June 2007