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Personal Information

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

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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 H₂O₂ 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 (MoS₂:WS₂) 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 CuInS₂ 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 H₂O₂ 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

YAĐCI Ö., ÖZDEMİR O. K., ÖZDEMİR O., BOZKURT K., Project Supported by Higher Education Institutions, Borik Asit Katkılanmış Cu₃SbS₃ 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): 98

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