

Assoc. Prof. ÖMER BAHADIR MERGEN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: X-6030-2019

ScopusID: 56396976600

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Education Information

Doctorate, Trakya University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2012 - 2019

Postgraduate, Trakya University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2010 - 2012

Undergraduate, Trakya University, Fen Fakültesi, Fizik Bölümü, Turkey 2006 - 2010

Dissertations

Doctorate, Karbon zengin nanomalzeme içeren termoplastik kompozitlerin elektriksel, optik ve mekanik özelliklerinin incelenmesi, Trakya University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2019

Postgraduate, UV tekniği kullanılarak agarose biojellerin faz geçişlerinin incelenmesi, Trakya University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2012

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Natural Sciences

Academic Titles / Tasks

Lecturer PhD, Dokuz Eylül University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2013 - Continues

Lecturer, Yeni Yüzyıl Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2012 - 2013

Academic and Administrative Experience

Internship Committee Member, Dokuz Eylül University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2015 - Continues

Adaptation/Exemption Committee Member, Dokuz Eylül University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2015 - Continues

Courses

Tıbbi Görüntüleme-IV, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Tıbbi Görüntüleme-II, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Medical Imaging-I, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Tıbbi Görüntüleme III, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022
KPD1002 KARİYER PLANLAMA, Associate Degree, 2023 - 2024
Fizik, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022
Fizik, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022
Genel Matematik, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **CMC/SWCNT biocomposites: A combined study on experiments, molecular simulations and continuum models**
MERGEN Ö. B., GÜL U., KAÇAR G., ARDA E., AYDOĞDU M.
Materials Today Communications, vol.39, 2024 (SCI-Expanded)
- II. **Determination of electrical and optical behaviors of carboxymethyl cellulose/graphene nanocomposites**
Mergen Ö. B., Arda E.
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.34, no.24, pp.1-17, 2023 (SCI-Expanded)
- III. **Electrical, optical and dielectric properties of polyvinylpyrrolidone/graphene nanoplatelet nanocomposites**
MERGEN Ö. B., ARDA E.
Optical Materials, vol.139, 2023 (SCI-Expanded)
- IV. **Graphene Nanoplatelet and Multiwalled Carbon Nanotube Doping Effect on the Structural and Physical Properties of PolyVinyl Alcohol Composites**
MERGEN Ö. B., ARDA E., Akın Evingür G., Kurtuluş Öztürk Ö., Pietsch U.
Journal of Macromolecular Science, Part B: Physics, 2023 (SCI-Expanded)
- V. **Effect of MWCNT addition on the optical band gap of PVA/CS transient biocomposites**
Mergen Ö. B.
JOURNAL OF COMPOSITE MATERIALS, vol.55, no.29, pp.4347-4359, 2021 (SCI-Expanded)
- VI. **Determination of Optical Band Gap Energies of CS/MWCNT Bio-nanocomposites by Tauc and ASF Methods**
Mergen Ö. B., Arda E.
Synthetic Metals, vol.269, 2020 (SCI-Expanded)
- VII. **A comparative study on the AC/DC conductivity, dielectric and optical properties of polystyrene/graphene nanoplatelets (PS/GNP) and multi-walled carbon nanotube (PS/MWCNT) nanocomposites**
MERGEN Ö. B., UMUT E., ARDA E., KARA S.
POLYMER TESTING, vol.90, 2020 (SCI-Expanded)
- VIII. **Electrical, mechanical, and optical changes in MWCNT-doped PMMA composite films**
MERGEN Ö. B., ARDA E., AKIN EVİNGÜR G.
JOURNAL OF COMPOSITE MATERIALS, vol.54, no.18, pp.2449-2459, 2020 (SCI-Expanded)
- IX. **Electrical, optical and mechanical properties of chitosan biocomposites**
MERGEN Ö. B., ARDA E., AKIN EVİNGÜR G.
JOURNAL OF COMPOSITE MATERIALS, vol.54, no.11, pp.1497-1510, 2020 (SCI-Expanded)
- X. **Electrical, optical, and mechanical percolations of multi-walled carbon nanotube and carbon mesoporous-doped polystyrene composites**
MERGEN Ö. B., ARDA E., AKIN EVİNGÜR G.
JOURNAL OF COMPOSITE MATERIALS, vol.54, no.1, pp.31-44, 2020 (SCI-Expanded)

- XI. **Effects of GNP addition on optical properties and band gap energies of PMMA films**
MERGEN Ö. B., ARDA E., KARA S., Pekcan O.
POLYMER COMPOSITES, vol.40, no.5, pp.1862-1869, 2019 (SCI-Expanded)
- XII. **Electrical, optical and mechanical properties of PS/GNP composite films**
ARDA E., MERGEN Ö. B., AKIN EVİNGÜR G.
PHASE TRANSITIONS, vol.91, no.8, pp.887-900, 2018 (SCI-Expanded)
- XIII. **Electrical and optical percolations in PMMA/GNP composite films**
ARDA E., MERGEN Ö. B., Pekcan O.
PHASE TRANSITIONS, vol.91, no.5, pp.546-557, 2018 (SCI-Expanded)
- XIV. **A comparison of fluorescence and UV-visible spectrometry techniques for thermal phase transitions of agarose gels**
ARDA E., KARA S., MERGEN Ö. B., Pekcan O.
POLYMER BULLETIN, vol.72, no.2, pp.157-175, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Farklı Karbon Dolgular İçeren Kitosan Filmlerin Elektrik ve Optik Özelliklerinin İncelenmesi**
MERGEN Ö. B.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.27, no.3, pp.485-494, 2023 (Peer-Reviewed Journal)
- II. **CS/PVA/PVP/GO Hibrit Kompozitlerin Hazırlanması ve Optik Bant Boşluğu Enerjilerinin Belirlenmesi**
MERGEN Ö. B.
Afyon Kocatepe University Journal of Sciences and Engineering, vol.21, no.1, pp.46-55, 2021 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **INVESTIGATION OF OPTICAL PROPERTIES AND OPTICAL BAND GAP ENERGIES OF PVA/CS/GNP BIO-NANOCOMPOSITES**
MERGEN Ö. B.
International Conference on Material Science and Technology, Nevşehir, Turkey, 16 - 18 October 2020, pp.231
- II. **A FACILE APPROACH FOR PREPARATION OF PVA / CS / GNP BIO COMPOSITES AND EFFECTS OF GNP ADDITION ON ELECTRICAL AND OPTICAL PROPERTIES**
MERGEN Ö. B.
International Engineering and Natural Sciences Conference (IENSC 2020), Diyarbakır, Turkey, 5 - 06 November 2020, pp.47-50
- III. **INVESTIGATION OF ELECTRICAL AND OPTICAL PROPERTIES OF POLYSTYRENE/GRAPHENE NANOPATELET (PS/GNP) COMPOSITE FILMS**
MERGEN Ö. B., ARDA E.
V. INTERNATIONAL POLYMERIC COMPOSITES (IPC 2017), 2 - 04 November 2017
- IV. **ELECTRICAL AND OPTICAL PERCOLATIONS OF GRAPHENE NANOPATELET-POLY(METHYLMETHACRYLATE) COMPOSITE FILMS**
MERGEN Ö. B., ARDA E.
JAPMED'xx10, 4 - 08 July 2017

Supported Projects

Aras M., Mergen Ö. B., Şahin M., Yamanoğlu R., Mısırlı C., Project Supported by Higher Education Institutions, Demir Esaslı Ve Demir Dışı Metalik Biyomalzemeler Ve Kalıplama Malzemeleri Üzerine Sıcak Pres Yöntemi Kullanılarak Yapılacak Toz Metal Kaplamaların Hücre Tutunma Davranışları Ve Antibakteriyel Etkilerinin İncelenmesi, 2022 - 2023

Aydoğdu M., Arda E., Kaçar G., Mergen Ö. B., Gül U., Project Supported by Higher Education Institutions, Karbon nano dolgu ile güçlendirilmiş biyopolimer kompozitlerin fiziksel özelliklerinin incelenmesi: Deney ve çok ölçekli simülasyonlar yaklaşımı, 2021 - 2023

Arda E., Mergen Ö. B., Project Supported by Higher Education Institutions, Karbon Dolgulu PMMA, PS ve PVA Polimer Kompozitlerin Elektrik, Optik ve Mekanik Özelliklerinin İncelenmesi, 2016 - 2019

Metrics

Publication: 21

Citation (WoS): 140

Citation (Scopus): 186

H-Index (WoS): 7

H-Index (Scopus): 7

Congress and Symposium Activities

2nd Silk Road International Scientific Research Conference, Attendee, Iğdır, Turkey, 2023