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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, Turkey 2022 - Continues

Postgraduate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, Turkey 2019 - 2022

Undergraduate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, Turkey 2014 - 2019

Foreign Languages

English, B1 Intermediate

Research Areas

Physics, Atomic and Molecular Physics, Materials Science, Nuclear physics, Natural Sciences

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The addition of Bi₂WO₆ nanoparticles to polyvinyl alcohol film: Improvements in optical, mechanical, and electrical properties**
BEYAZAY E., ŞAHİN N., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z.
Physica B: Condensed Matter, vol.696, 2025 (SCI-Expanded)
- II. **LDPE/Bi₂O₃ nanocomposites: Enhanced mechanical, dielectric, and optical properties**
ŞAHİN N., BEYAZAY E., KARABUL Y., KILIÇ M., ESMER K., GÜVEN ÖZDEMİR Z.
Journal of Applied Polymer Science, vol.141, no.12, 2024 (SCI-Expanded)
- III. **BaO Nanoparticle Contribution To PVA On The Way To Become A More Functional Material**
Beyazay E., Şahin N., Karabul Y., Kılıç M., Güven Özdemir Z.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.140, pp.1-12, 2023 (SCI-Expanded)
- IV. **Multifunctional PCz/BaO nanocomposites: Ionizing radiation shielding ability and enhanced electric conductivity**

BEYAZAY E., KARABUL Y., Korkut S. E., KILIÇ M., Özdemir Z.

Progress in Nuclear Energy, vol.155, 2023 (SCI-Expanded)

V. **PCz/BaO nanocomposites: Synthesis, characterization, and energy storage properties**

BEYAZAY E., KARABUL Y., KILIÇ M., EKEN KORKUT S., Ozdemir Z.

PHYSICA B-CONDENSED MATTER, vol.634, 2022 (SCI-Expanded)

Supported Projects

GÜVEN ÖZDEMİR Z., BEYAZAY E., KILIÇ M., İÇELLİ O., ALKAN Ü., KARABUL Y., Project Supported by Higher Education Institutions, Polipropilen/Bi2O3 ve Polipropilen/WO3 Nano Kompozit Filmlerin Geliştirilmesi Elektrik ve Mekanik Özelliklerinin Tespiti, 2020 - 2022

GÜVEN ÖZDEMİR Z., Beyazay E., Project Supported by Higher Education Institutions, X-IŞINI VE DÜŞÜK ENERJİLİ GAMA IŞINLARI ZIRHLAMA ÖZELLİĞİNE SAHİP ENERJİ DEPOLAYICI POLİMER TEMELLİ NANO KOMPOZİTLERİN ÜRETİMİ, 2019 - 2022

Kılıç M., Beyazay E., Güven Özdemir Z., Şahin N., Karabul Y., Alkan Ü., Project Supported by Higher Education Institutions, Bazı Termoplastik Polimerlerin Elektrik ve Mekanik Özelliklerinin Çeşitli Takviye Malzemeleri ve Radyasyon ile Geliştirilmesi, 2020 - 2021

Beyazay E., Güven Özdemir Z., Project Supported by Higher Education Institutions, X-Işını ve Düşük Enerjili Gama Işımları Zırhlama Özelliğine Sahip Polimer Temelli Nano Kompozitlerin Üretimi, 2019 - 2021

Metrics

Publication: 5

Citation (Scopus): 16

H-Index (Scopus): 2

Scholarships

2210-C Yurtiçi Öncelikli Alanlar Yüksek Lisans Burs Programı, TUBITAK, 2020 - Continues