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International Researcher IDs

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Education Information

Doctorate, Marmara University, Faculty of Sciences, Department of Physics, Turkey 2023 - Continues

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Physics, Turkey 2020 - 2023

Undergraduate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, Turkey 2015 - 2020

Dissertations

Postgraduate, Investigation of Dielectric and Mechanical Properties of Polyethylene Based Bi₂O₃ Reinforced Nanocomposite Strips in Different Environmental Conditions and Estimation with Artificial Intelligence , Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2023

Research Areas

Physics, Atomic and Molecular Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Academic Titles / Tasks

Research Assistant, Marmara University, Faculty of Arts and Sciences, Physics, 2021 - 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. Influence of Boron Doping on the Dielectric Characteristics of Eu³⁺-Doped β-SrTa₂O₆ and Eu³⁺-Doped BaTa₂O₆ Tungsten Bronze-Type Ceramics**
İlhan M., Katı M. İ., ŞAHİN N., ESMER K.
Journal of Electronic Materials, vol.53, no.10, pp.6536-6552, 2024 (SCI-Expanded)
- III. 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)

- IV. **Incorporation Mechanism of Potassium in FAPbI₃ Perovskite Solar Cell Materials**
ALEVLİ M., Gungor N., KAVAK P., ŞAHİN N., Corcor A., Topal I., ESMER K., ÇAKMAKÇI E., DEĞER C., YAVUZ İ.
Journal of Physical Chemistry C, vol.128, no.7, pp.2759-2766, 2024 (SCI-Expanded)
- V. **The evaluation of the effect of metal oxide and ferroelectric ceramic additives on the structural and dielectric properties of epoxy matrix**
ŞAHİN N., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., ESMER K.
Polymer International, vol.73, no.1, pp.9-20, 2024 (SCI-Expanded)
- VI. **Structural and dielectrical behavior of polypyrrole/huntite composites**
Madakbaş S., Şahin N., Türk Z., Esmer K., Şen F.
TURKISH JOURNAL OF CHEMISTRY, vol.47, no.2, pp.321-328, 2023 (SCI-Expanded)
- VII. **BaO nanoparticle contribution to PVA on the way to become a more functional material**
BEYAZAY E., ŞAHİN N., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z.
Journal of Applied Polymer Science, 2023 (SCI-Expanded)
- VIII. **Radiation shielding performances of Na₂SiO₃ based low-cost micro and nano composites for diagnostic imaging**
Bozkurt M., ŞAHİN N., Karabul Y., KILIÇ M., Özdemir Z. G.
Progress in Nuclear Energy, vol.143, 2022 (SCI-Expanded)
- IX. **Low cost radiation shielding material for low energy radiation applications: Epoxy/Yahyali Stone composites**
Şahin N., Bozkurt M., KARABUL Y., KILIÇ M., Özdemir Z. G.
Progress in Nuclear Energy, vol.135, 2021 (SCI-Expanded)

Papers Published in Refereed Scientific Meetings

- I. **Tensile properties of nano Bi₂O₃ reinforced LDPE films**
ŞAHİN N., GÜVEN ÖZDEMİR Z.
4th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022), Turkey, 14 December 2022
- II. **Tungsten Trioxide Reinforced Epoxy Composites with Increased Dielectric Permittivity and Conductivity**
ŞAHİN N., KARABUL Y., KILIÇ M., GÜVEN ÖZDEMİR Z., ESMER K.
TURKISH PHYSICAL SOCIETY 38 th INTERNATIONAL PHYSICS CONGRESS, Turkey, 31 August - 04 September 2022
- III. **EFFECT OF Nb₂O₅ ON THE OPTICAL AND DIELECTRIC PROPERTIES OF TELLURITE GLASS SYSTEMS ACTIVATED WITH Dy³⁺ IONS**
Şahin N., Özgür H., Erdem M., Esmer K.
3. HAGIA SOPHIA INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY SCIENTIFIC STUDIES, 15 - 16 September 2021, pp.204
- IV. **OPTICAL AND DIELECTRIC PROPERTIES OF Dy³⁺ DOPED TeO₂-TiO₂-ZnO-WO₃ GLASSES**
Özgür H., Şahin N., Erdem M., Esmer K.
3. HAGIA SOPHIA INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY SCIENTIFIC STUDIES, 15 - 16 September 2021, pp.205
- V. **Yahyalı Stone Reinforced Epoxy Matrix for Gamma-Ray Screening**
Karabul Y., Bozkurt M., Şahin N., Kılıç M., Güven Özdemir Z.
ULUSLARARASI ANKARA BİLİMSEL ARAŞTIRMALAR KONGRESİ, Ankara, Turkey, 4 - 06 October 2019, pp.411-412
- VI. **Epoxy/Kayseri Limestone Composites with Gamma Ray Shielding Function**
Karabul Y., Şahin N., Bozkurt M., Kılıç M., Güven Özdemir Z.
ULUSLARARASI ANKARA BİLİMSEL ARAŞTIRMALAR KONGRESİ, Ankara, Turkey, 4 - 06 October 2019, pp.509-510

Supported Projects

Şahin N., Güven Özdemir Z., Project Supported by Higher Education Institutions, ÇEVRESEL KOŞULLARA DAYANIKLI POLİETİLEN BAZLI Bİ2O3 İLE GÜÇLENDİRİLMİŞ NANO KOMPOZİT ŞERİTLERİN DİELEKTRİK, MEKANİK ÖZELLİKLERİNİN İNCELENMESİ ve YAPAY ZEKÂ İLE OPTİMİZASYONU, 2021 - 2022

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

Metrics

Publication: 15

Citation (WoS): 7

Citation (Scopus): 38

H-Index (WoS): 1

H-Index (Scopus): 2