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Eskişehir, Türkiye

International Researcher IDs

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Education

Doctorate

2013 - 2017

Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), Turkey

Postgraduate

2010 - 2013

Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (YI) (Tezli),
Turkey

Undergraduate

2005 - 2010

Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Soğuk akan post-deşarj plazma reaktörlerinin üretimi ve bazı özelliklerinin incelenmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, 2017

Postgraduate, Genelleştirilmiş bir bose gazı modelinin bazı istatistik mekaniksel özelliklerinin incelenmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (YI) (Tezli), 2013

Academic Titles / Tasks

Associate Professor

2023 - Continues

Eskisehir Osmangazi University, Fen Fakültesi, Fizik Bölümü

Assistant Professor

2022 - 2023

Eskisehir Osmangazi University, Fen Fakültesi, Fizik Bölümü

Research Assistant PhD

2017 - 2022

Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ

Research Assistant

2010 - 2017

Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ

Supported Projects

1. KILIÇ G., BİRDOĞAN S., İLİK E., KAVAZ E., Project Supported by Higher Education Institutions, Çeşitli divalan metal iyonu katkılı Bizmut-Borotellur oksit camların sentezi, optik, yapısal karakterizasyonu ve radyasyon zırhlama özelliklerinin deneyel ve teorik incelenmesi., 2022 - Continues
2. Tekin H. O., Issa B. A., Elshami W., Almisned G., Kılıç G., İlik E., Susoy G., Universities of Other Countries Supported Project, A critical evaluation on nuclear safety properties of novel heavy metal oxide glass containers for transportation and waste management in Nuclear Medicine hot labs and nuclear power plants, 2023 - 2024
3. İlik E., Kılıç G., İşsever U. G., Project Supported by Higher Education Institutions, CeO₂ Katkılı Lityum-Borotellür Oksit Camların Sentezi ve Fiziksel, Optik ve Yapısal Karakterizasyonu, 2020 - 2022
4. İşsever U. G., İlik E., Kılıç G., Project Supported by Higher Education Institutions, Oksiflorür ZnTeTa Camların Sentezi ve Karakterizasyonu, 2017 - 2020
5. Akan T., İlik E., Project Supported by Higher Education Institutions, Production and Investigation of Spectroscopic Characteristics of Nitrogen Cold Plasmas, 2017 - 2019
6. Kılıç G., İlik E., İşsever U. G., Project Supported by Higher Education Institutions, Katkılı ve Katkısız ZnTeTa Oksit Camların Oluşturulması ve Karakterizasyonu, 2015 - 2016
7. Akan T., İlik E., Tanışlı M., Project Supported by Higher Education Institutions, Investigation of Cold Flowing Radio Frequency Post Discharges, 2014 - 2016
8. AKAN T., İLİK E., Project Supported by Higher Education Institutions, Düşük Basınçta Soğuk-Akan-Post-Deşarj Plazmaların Etkileşiminin İncelenmesi, 2014 - 2015
9. Akan T., İlik E., Project Supported by Higher Education Institutions, Düşük Basınçta Soğuk Akan Post Deşarj Plazmaların Etkileşiminin İncelenmesi, 2014 - 2015

Awards

1. İlik E., 2021 YILI BİLİMSEL ARAŞTIRMA TEŞVİK ÖDÜLÜ, Eskişehir Osmangazi Üniversitesi, April 2022

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Exploring the gamma-ray shielding performance of boron-rich high entropy alloys**
YILMAZ ALAN H., Guler O., YILMAZ A., SUSAM L., KAVAZ PERİŞANOĞLU E., KILIÇ G., İLİK E., Oktik S., AKKUŞ B., ALMisned G., et al.

Radiation Physics and Chemistry, vol.229, 2025 (SCI-Expanded)

2. Tailoring optimal KERMA, projected range, and mass stopping power, and gamma-ray shielding capabilities through BaO/ZnO/CdO/SrO incorporation into Na₂O-SiO₂ glasses
YILMAZ ALAN H., Yilmaz A., Susam L. A., Ozturk G., KILIÇ G., İLİK E., Oktik S., Akkus B., Almisned G., Tekin H. O.
RADIATION PHYSICS AND CHEMISTRY, vol.226, 2025 (SCI-Expanded)
3. First-ever fusion of high entropy alloy (HEA) with glass: Enhancing of critical properties of zinc-tellurite glass through TiZrNbHfTaO_x incorporation
Güler Ö., KILIÇ G., KAVAZ PERİŞANOĞLU E., İLİK E., Guler S. H., ALMisned G., Tekin H.
Ceramics International, vol.50, no.20, pp.39927-39939, 2024 (SCI-Expanded)
4. A first-time fusion of TiNbWMoZrO_x high entropy oxide (HEO) with zinc-tellurite glass: Toward superior physical properties
KILIÇ G., Güler Ö., KAVAZ PERİŞANOĞLU E., İLİK E., Guler S. H., ALMisned G., Tekin H.
Journal of Non-Crystalline Solids, vol.642, 2024 (SCI-Expanded)
5. A critical assessment of the mechanical strength and radiation shielding efficiency of advanced Concrete composites and Vanadium Oxide-Glass container for enhanced nuclear waste management
Tekin H., ALMisned G., KILIÇ G., İLİK E., Susoy G., Elshami W., Issa B.
Results in Physics, vol.64, 2024 (SCI-Expanded)
6. Non-decreasing monotonic effects of cerium and gadolinium on tellurite glasses toward enhanced heavy-charged particle stopping: alpha-proton particles as major a part of cosmic radiation
Alan H. Y., Almisned G., Yilmaz A., Susam L. A., Ozturk G., Kiliç G., İlik E., Tuysuz B., Topuzlar S. E., Akkus B., et al.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.60, no.3, pp.823-832, 2024 (SCI-Expanded)
7. KERMA, projected range, mass stopping power and gamma-ray shielding properties of antimony and tellurium reinforced iron phosphate glasses
YILMAZ ALAN H., YILMAZ A., SUSAM L., Ozturk G., KILIÇ G., İLİK E., Oktik S., AKKUŞ B., ALMisned G., Tekin H.
Radiation Physics and Chemistry, vol.218, 2024 (SCI-Expanded)
8. The role of ZrO₂ as glass-network former on radiation transmission properties of aluminoborosilicate (ABS) glasses: A glass type for nuclear waste immobilization
ALMisned G., Sen Baykal D., İLİK E., KILIÇ G., Tekin H.
Ceramics International, vol.49, no.23, pp.39124-39133, 2023 (SCI-Expanded)
9. Designing a Lead-free and high-density glass for radiation facilities: Synthesis, physical, optical, structural, and experimental gamma-ray transmission properties of newly designed barium-borosilicate glass sample
Sen Baykal D., KILIÇ G., İLİK E., KAVAZ E., ALMisned G., Cakirli R., Tekin H.
Journal of Alloys and Compounds, vol.965, 2023 (SCI-Expanded)
10. Mechanical, gamma rays and neutron radiation transmission properties for some ZnO-TeO₂-P2O₅-ZnX glasses
KILIÇ G., İLİK E., KAVAZ E., ALMisned G., Sen Baykal D., Tekin H.
Ceramics International, vol.49, no.19, pp.31773-31783, 2023 (SCI-Expanded)
11. Electrochemical investigation of ZnO effect of amorphous V2O5-P2O5 glassy electrodes
Mohammadigharehbagh R., İLİK E., KILIÇ G., Öztekik B., PAT S., KORKMAZ Ş.
Journal of Materials Science: Materials in Electronics, vol.34, no.30, 2023 (SCI-Expanded)
12. Tungsten (VI) oxide reinforced antimony glasses for radiation safety applications: A throughout investigation for determination of radiation shielding properties and transmission factors
AlMisned G., Sen Baykal D., İLİK E., Abuzaid M., Issa S. A., KILIÇ G., Zakaly H. M., Ene A., Tekin H.
Heliyon, vol.9, no.7, 2023 (SCI-Expanded)
13. Tailoring optimal translocation conditions towards proximity of borotellurite glasses to the red spectrum through CeO₂ for practical applications
ÇETİNKAYA Ç., ÇOKDUYUGULAR E., KINACI B., İLİK E., KILIÇ G., ALMisned G., Zakaly H. M., Ene A., Tekin H.
Heliyon, vol.9, no.4, 2023 (SCI-Expanded)
14. Elucidating the influences of Tantalum (V) oxide in Bi2O₃-TeO₂-ZnO ternary glasses: An

- experimental characterization study on optical and nuclear radiation transmission properties of high-density glasses**
İlik B. O., Kılıç G., İlik E., Kavaz E., Almisned G., Tekin H.
CERAMICS INTERNATIONAL, vol.49, pp.10906-10913, 2023 (SCI-Expanded)
15. **A Promising Glass Type in Electronic and Laser Applications: Elastic Moduli, Mechanical, and Photon Transmission Properties of WO₃ Reinforced Ternary-Tellurite Glasses**
ALMisned G., Rabaa E., Rammah Y. S. S., Khattari Z. Y. Y., Baykal D. S., İLİK E., KILIÇ G., Zakaly H. M. H., Ene A., Tekin H. O.
SYMMETRY-BASEL, vol.15, no.3, 2023 (SCI-Expanded)
16. **Comparative analysis on application conditions of indium (III) oxide-reinforced glasses in nuclear waste management and source transportation: A Monte Carlo simulation study**
ALMisned G., Baykal D. S., KILIÇ G., İLİK E., Rabaa E., Susoy G., Zakaly H. M., Ene A., Tekin H.
Heliyon, vol.9, no.3, 2023 (SCI-Expanded)
17. **Mechanical properties, elastic moduli, and gamma ray attenuation competencies of some TeO₂-W₀₃-GdF₃ glasses: Tailoring WO₃-GdF₃ substitution toward optimum behavioral state range**
ALMisned G., Rabaa E., Sen Baykal D., Kavaz E., İLİK E., KILIÇ G., Zakaly H. M. H., Ene A., Tekin H. O.
OPEN CHEMISTRY, vol.21, no.1, 2023 (SCI-Expanded)
18. **Functional assessment of various rare-earth (RE) ion types: An investigation on gamma-ray attenuation properties of GeO₂-B₂O₃-P₂O₅-ZnO-Tb₂O₃-RE magneto-optical glasses**
ALMisned G., Sen Baykal D., İLİK E., Abuzaid M., KILIÇ G., Tekin H.
Optik, vol.274, 2023 (SCI-Expanded)
19. **Exploring the Radioprotective Indium (III) Oxide Screens for Mammography Scans Using a Three-Layer Heterogeneous Breast Phantom and MCNPX: A Comparative Study Using Clinical Findings**
ALMisned G., Elshami W., KILIÇ G., İLİK E., Rabaa E., Zakaly H. M. H., Ene A., Tekin H. O.
Medicina (Lithuania), vol.59, no.2, 2023 (SCI-Expanded)
20. **Translocation of tungsten(vi) oxide/gadolinium(III) fluoride in tellurite glasses towards improvement of gamma-ray attenuation features in high-density glass shields**
Almisned G., Rabaa E., Sen Baykal D., İLİK E., KILIÇ G., Zakaly H. M. H., Ene A., Tekin H. O.
Open Chemistry, vol.21, no.1, 2023 (SCI-Expanded)
21. **The role of Ag₂O incorporation in nuclear radiation shielding behaviors of the Li₂O-Pb₃O₄-SiO₂ glass system: A multi-step characterization study**
Almisned G., Susoy G., Zakaly H. M. H., Rabaa E., KILIÇ G., İLİK E., Sen Baykal D., Ene A., Tekin H. O.
Open Chemistry, vol.21, no.1, 2023 (SCI-Expanded)
22. **Toward the strengthening of radioprotection during mammography examinations through transparent glass screens: A benchmarking between experimental and Monte Carlo simulation studies**
ALMisned G., Elshami W., Rabaa E., KILIÇ G., İLİK E., Sen Baykal D., Ene A., Tekin H.
Frontiers in public health, vol.11, pp.1171209, 2023 (SCI-Expanded)
23. **The impact of chemical modifications on gamma-ray attenuation properties of some WO₃-reinforced tellurite glasses**
Almisned G., Rabaa E., Sen Baykal D., İLİK E., KILIÇ G., Zakaly H. M. H., Ene A., Tekin H. O.
Open Chemistry, vol.21, no.1, 2023 (SCI-Expanded)
24. **A critical evaluation on nuclear safety properties of novel cadmium oxide-rich glass containers for transportation and waste management: Benchmarking with a reinforced concrete container**
Almisned G., Baykal D. S., Kılıç G., İlik E., Zakaly H. M., Ene A., Tekin H. O.
FRONTIERS IN PHYSICS, vol.10, 2022 (SCI-Expanded)
25. **Tailoring critical material properties of some ternary glasses through ZnO/CdO alteration: a focusing study on multiple behavioral changes**
Kilic G., Ilik E., Issa S. A. M., Almisned G., Tekin H. O.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.128, no.10, 2022 (SCI-Expanded)
26. **ZnO/CdO translocation in P₂O₅-TeO₂-ZnO ternary glass systems: A reformative enhancement tool**

- for physical, optical, and heavy-charged particles attenuation properties**
Kılıç G., İlik E., Issa S. A., Almisned G., Tekin H.
OPTIK, vol.268, 2022 (SCI-Expanded)
27. **Synthesis and experimental characterization on fast neutron and gamma-ray attenuation properties of high-dense and transparent Cadmium oxide (CdO) glasses for shielding purposes**
KAVAZ E., İLİK E., KILIÇ G., ALMISned G., Tekin H.
Ceramics International, vol.48, pp.23444-23451, 2022 (SCI-Expanded)
28. **CdO-rich quaternary tellurite glasses for nuclear safety purposes: Synthesis and experimental gamma-ray and neutron radiation assessment of high-density and transparent samples**
KILIÇ G., KAVAZ E., İLİK E., ALMISned G., Tekin H.
OPTICAL MATERIALS, vol.128, 2022 (SCI-Expanded)
29. **Effect of heavy rare-earth element oxides on physical, optical and gamma-ray protection abilities of zinc-borate glasses**
İLİK E.
Applied Physics A: Materials Science and Processing, vol.128, no.6, 2022 (SCI-Expanded)
30. **A closer-look on Copper(II) oxide reinforced Calcium-Borate glasses: Fabrication and multiple experimental assessment on optical, structural, physical, and experimental neutron/gamma shielding properties**
İLİK E., KAVAZ E., KILIÇ G., Issa S. A., Zakaly H. M., Tekin H.
CERAMICS INTERNATIONAL, vol.48, no.5, pp.6780-6791, 2022 (SCI-Expanded)
31. **Synthesis and characterization of vanadium(V) oxide reinforced calcium-borate glasses: Experimental assessments on Al₂O₃/BaO₂/ZnO contributions**
İlik E., Kavaz E., Kilic G., Issa S. A., Almisned G., Tekin H.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.580, pp.1-15, 2022 (SCI-Expanded)
32. **Cerium (IV) oxide reinforced Lithium-Borotellurite glasses: A characterization study through physical, optical, structural and radiation shielding properties**
İLİK E., KILIÇ G., İŞSEVER U. G., Issa S. A. M., Zakaly H. M. H., Tekin H. O.
CERAMICS INTERNATIONAL, vol.48, no.1, pp.1152-1165, 2022 (SCI-Expanded)
33. **Structural characterization and gamma-ray attenuation properties of rice-like α-TeO₂ crystalline microstructures (CMS) grown rapidly on free surface of tellurite-based glasses**
ALMISned G., KILIÇ G., İLİK E., Issa S. A. M., Zakaly H. M. H., Badawi A., İŞSEVER U. G., Tekin H. O., Ene A.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.16, pp.1179-1189, 2022 (SCI-Expanded)
34. **Synthesis and structural, optical, physical properties of Gadolinium (III) oxide reinforced TeO₂-B₂O₃-(20-x)Li₂O-xGd₂O₃ glass system**
KILIÇ G., İLİK E., Issa S. A., Tekin H.
Journal of Alloys and Compounds, vol.877, 2021 (SCI-Expanded)
35. **Fabrication, structural, optical, physical and radiation shielding characterization of indium (III) oxide reinforced 85TeO₂-(15-x)ZnO-xIn₂O₃ glass system**
KILIÇ G., İLİK E., Issa S. A., Issa B., İŞSEVER U. G., Zakaly H. M., Tekin H.
Ceramics International, vol.47, pp.27305-27315, 2021 (SCI-Expanded)
36. **Ytterbium (III) oxide reinforced novel TeO₂-B₂O₃-V₂O₅ glass system: Synthesis and optical, structural, physical and thermal properties**
Kılıç G., İlik E., Issa S. A., Issa B., Al-Buraihi M., İşsever U. G., Zakaly H. M., Tekin H.
Ceramics International, vol.47, pp.18517-18531, 2021 (SCI-Expanded)
37. **Deposition of cadmium (II) oxide-reinforced VP glassy thin films by thermionic vacuum arc (TVA) and structural characterization**
İLİK E., Durmus C., KILIÇ G., Gokhan Issever U. G., AKAN T.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.12, pp.16311-16323, 2021 (SCI-Expanded)
38. **The Impact of CuO on physical, structural, optical and thermal properties of dark VPB semiconducting glasses**

- İŞSEVER U. G., KILIÇ G., İLİK E.
Optical Materials, vol.116, 2021 (SCI-Expanded)
39. **The role of B₂O₃ on the structural, thermal, and radiation protection efficacy of vanadium phosphate glasses**
Kılıç G., İlik E., Mahmoud K., El-Agawany F., Alomairy S., Rammah Y.
Applied Physics A: Materials Science and Processing, vol.127, no.4, 2021 (SCI-Expanded)
40. **Physical, thermal, optical, structural and nuclear radiation shielding properties of Sm₂O₃ reinforced borotellurite glasses**
Kılıç G., Issa S. A., İlik E., Kilicoglu O., İşsever U. G., El-Mallawany R., Issa B., Tekin H.
CERAMICS INTERNATIONAL, vol.47, no.5, pp.6154-6168, 2021 (SCI-Expanded)
41. **Ta₂O₅ reinforced Bi₂O₃-TeO₂-ZnO glasses: Fabrication, physical, structural characterization, and radiation shielding efficacy**
Kılıç G., Agawany F., Ozen Ilik B., Mahmoud K., İlik E., Rammah Y.
Optical Materials, vol.112, 2021 (SCI-Expanded)
42. **A journey for exploration of Eu₂O₃ reinforcement effect on zinc-borate glasses: Synthesis, optical, physical and nuclear radiation shielding properties**
Kılıç G., Issa S., İlik E., Kilicoglu O., Tekin H.
CERAMICS INTERNATIONAL, vol.47, no.2, pp.2572-2583, 2021 (SCI-Expanded)
43. **Ta₂O₅-doped zinc-borate glasses: physical, structural, optical, thermal, and radiation shielding properties**
Öztürk S., İlik E., Kılıç G., İşsever U. G.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, 2020 (SCI-Expanded)
44. **Novel zinc vanadyl boro-phosphate glasses: ZnO-V₂O₅- P₂O₅-B₂O₃: Physical, thermal, and nuclear radiation shielding properties**
Kılıç G., İlik E., Mahmoud K. A., El-Mallawany R., El-Agawany F., Ramman Y. S.
CERAMICS INTERNATIONAL, vol.46, pp.19318-19327, 2020 (SCI-Expanded)
45. **The effect of B₂O₃/CdO substitution on structural, thermal, and optical properties of new black PVB/Cd semiconducting oxide glasses**
Kılıç G., İlik E., İşsever U. G., Peker M.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, 2020 (SCI-Expanded)
46. **FTIR, UV-Vis-NIR spectroscopy, and gamma rays shielding competence of novel ZnO-doped vanadium borophosphate glasses**
Rammah Y. S., El-Agawany F., Mahmoud K. A., El-Mallawany R., İlik E., Kılıç G.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, pp.9099-9113, 2020 (SCI-Expanded)
47. **Synthesis of novel AgO-doped vanadium-borophosphate semiconducting glasses and investigation of their optical, structural, and thermal properties**
İlik E., Kılıç G., İşsever U. G.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, pp.8986-8995, 2020 (SCI-Expanded)
48. **Synthesis, characterization and crystalline phase studies of TeO₂-Ta₂O₅-ZnO/ZnF₂ oxyfluoride semiconducting glasses**
Kılıç G., İşsever U. G., İlik E.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.527, 2020 (SCI-Expanded)
49. **Adding Water Droplets Into Atmospheric Pressure Plasma Jet of Helium**
İlik E., Durmus C., Akan T.
IEEE TRANSACTIONS ON PLASMA SCIENCE, vol.47, pp.5000-5005, 2019 (SCI-Expanded)
50. **The synthesis and characterization of zinc-tellurite semiconducting oxide glasses containing Ta₂O₅**
Kılıç G., İşsever U. G., İlik E.
MATERIALS RESEARCH EXPRESS, vol.6, 2019 (SCI-Expanded)
51. **Characterization of Er³⁺ doped ZnTeTa semiconducting oxide glass**
Kılıç G., İşsever U. G., İlik E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, pp.8920-8930, 2019 (SCI-Expanded)

52. **Optical properties of the atmospheric pressure helium plasma jet generated by alternative current (a.c.) power supply**
 İlik E., Akan T.
 PHYSICS OF PLASMAS, vol.23, 2016 (SCI-Expanded)
53. **Low-temperature thermostatistics of Tamm-Danoff deformed boson oscillators**
 Algin A., İlik E.
 PHYSICS LETTERS A, vol.377, pp.1797-1803, 2013 (SCI-Expanded)

Articles Published in Other Journals

1. **An investigation on protection properties of Tantalum (V) oxide reinforced glass screens on unexposed breast tissue for mammography examinations**
 Alan H., Almisned G., Yilmaz A., Susam L., İlik E., Kılıç G., Ozturk G., Tuysuz B., Akkus B., Tekin H.
 RADIOGRAPHY, vol.30, no.1, pp.282-287, 2024 (ESCI)
2. **A Study on the Physical, Optical and Radiation Shielding Capabilities of Phosphate Zinc Telluride Glasses as a Result of ZnO/In2O3 Translocation**
 İlik E.
 Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.11, pp.1686-1699, 2023 (Peer-Reviewed Journal)
3. **Investigation on Optical Properties of Atmospheric Pressure Plasma Jets of N2 Gas**
 İlik E., Durmuş Ç., Akan T.
 Adiyaman Üniversitesi Fen Bilimleri Dergisi, vol.10, no.1, pp.326-338, 2020 (Peer-Reviewed Journal)
4. **Applying on Bacillus cereus of Low-Pressure and Low-Temperature Plasma Jet in a Postdischarge Chamber**
 İlik E., Aytar Çelik P., Toptas Y., Çabuk A., Akan T.
 IEEE TRANSACTIONS ON RADIATION AND PLASMA MEDICAL SCIENCES, vol.1, no.5, pp.468-471, 2017 (ESCI)

Books

1. **Physics I Experiments Laboratory Book for Engineering Students**
 Algin E., Peker D., İşsever U. G., Kılıç G., Aşıcı C., Baykul M. C., Çetin A., Çetinkaya Çolak S., Eroğlu S., İlik E., et al.
 Eskeşehir Osmangazi Üniversitesi, Eskeşehir, 2019
2. **Physics II Experiments Laboratory Book For Engineering Students**
 Algin E., Peker D., İşsever U. G., Kılıç G., Aşıcı C., Çetinkaya Çolak S., İlik E., Karakaya S., Kaya M., Kellegöz M.
 Eskeşehir Osmangazi Üniversitesi, Eskeşehir, 2018
3. **Mühendislik Öğrencileri için Fizik II Deneyleri Laboratuvar Kitabı**
 ALĞIN E., PEKER D., İŞSEVER U. G., KILIÇ G., AŞICI C., ÇETİNKAYA ÇOLAK S., İLİK E., KARAKAYA S., KAYA M., KELLEGÖZ M.
 Eskeşehir Osmangazi Üniversitesi, Eskeşehir, 2018
4. **Mühendislik Öğrencileri için FİZİK II DENEYLERİ LABORATUVAR KİTABI**
 ALĞIN E., PEKER D., İŞSEVER U. G., KILIÇ G., AŞICI C., ÇETİNKAYA ÇOLAK S., İLİK E., KARAKAYA S., KAYA M., KELLEGÖZ M.
 Eskeşehir Osmangazi Üniversitesi Yayınları No:281, Eskeşehir, 2017

Papers Published in Refereed Scientific Meetings

1. **INVESTIGATION OF SOME OXIDE COMPOUNDS IN GLASS SYNTHESIS ON SHIELDING PROPERTIES FOR COSMIC RADIATION THROUGH THE OLТАRIS PROGRAM**
 Öztürk G., Akkuş B., Almisned G., Yılmaz A., Susam L., Yılmaz Alan H., Kılıç G., İlik E., Tüysüz B., Oktik Ş., et al.

TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, AUGUST 31 – SEPTEMBER 4, 2023,
BODRUM/TURKEY, Muğla, Turkey, 31 August - 04 September 2023, pp.3

**2. ZINC-TELLURITE GLASSES: A BETTER UNDERSTANDING OF THEIR ROLE IN ALPHA-PROTON
STOPPING APPLICATIONS: A COMPREHENSIVE STUDY**

Susam L., Akkuş B., Almısned G., Yılmaz A., Yılmaz Alan H., Kılıç G., İlik E., Öztürk G., Tuysuz B., Oktik Ş., et al.

TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, AUGUST 31 – SEPTEMBER 4, 2023,
BODRUM/TURKEY, Muğla, Turkey, 31 August - 04 September 2023, pp.6

**3. AN OVERVIEW OF LANTHANIDE DOPED GLASSES THROUGH CHARACTERISTIC MATERIAL
PROPERTIES IN RADIATION SHIELDING APPLICATIONS**

İlik E., Akkuş B., Almısned G., Yılmaz A., Susam L., Yılmaz Alan H., Kılıç G., Ozturk G., Tuysuz B., Oktik Ş., et al.

TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, AUGUST 31 – SEPTEMBER 4, 2023,
BODRUM/TURKEY, Muğla, Turkey, 31 August - 04 September 2023, pp.2

**4. OVERVIEW OF CRITICAL MATERIAL PROPERTIES OF GLASS IN RADIATION SHIELDING
APPLICATIONS**

Kılıç G., Akkuş B., Almısned G., Yılmaz A., Susam L., Yılmaz Alan H., İlik E., Ozturk G., Tuysuz B., Oktik Ş., et al.

TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, AUGUST 31 – SEPTEMBER 4, 2023,
BODRUM/TURKEY, Muğla, Turkey, 31 August - 04 September 2023, pp.4

**5. A CLOSER LOOK AT SHIELDING APPLICATIONS OF GLASSES FOR VARIOUS PURPOSES: A
METHODOLOGICAL REVIEW**

Tekin H. O., Almısned G., Kılıç G., Akkuş B., Yılmaz A., Susam L., Yılmaz Alan H., İlik E., Öztürk G., Tüysüz B., et al.

TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, AUGUST 31 – SEPTEMBER 4, 2023,
BODRUM/TURKEY, Muğla, Turkey, 31 August - 04 September 2023, pp.8

**6. ASSESSMENT OF GLASS SHIELDING FOR COSMIC RADIATION AND SPACE APPLICATIONS USING
OLTARIS CODE**

Yılmaz Alan H., Yılmaz A., Tekin H. O., Almısned G., Susam L., Akkuş B., Kılıç G., İlik E., Güler Ö., Oktik Ş., et al.

TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, AUGUST 31 – SEPTEMBER 4, 2023,
BODRUM/TURKEY, Muğla, Turkey, 31 August - 04 September 2023, pp.5

7. PROGRESS IN PROTECTIVE GLASS SHIELDING FOR MAMOGRAPHY SCANS

Tuysuz B., Akkuş B., Almısned G., Yılmaz A., Susam L., Yılmaz Alan H., Kılıç G., Ozturk G., Oktik Ş., Guler Ö., et al.

TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, AUGUST 31 – SEPTEMBER 4, 2023,
BODRUM/TURKEY, Muğla, Turkey, 31 August - 04 September 2023, pp.1

8. APPLICATION OF HIGH ENTROPY ALLOYS (HEAS) IN NUCLEAR REACTOR TECHNOLOGY

Güler Ö., Tekin H. O., Yılmaz Alan H., Yılmaz A., Almısned G., Susam L., Akkuş B., Kılıç G., İlik E., Oktik Ş., et al.

TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, AUGUST 31 – SEPTEMBER 4, 2023,
BODRUM/TURKEY, Muğla, Turkey, 31 August - 04 September 2023, pp.7

**9. FARKLI LANTANİT OKSİT KATKILI BOR TABANLI CAMLARIN SEM-EDX VE XRD ANALİZLERİ,
RADYASYONDAN KORUMA ÖZELLİKLERİN PHY-X PSD YAZILIMI İLE BELİRLENMESİ
İlik E.**

BURSA 3RD International Conference on Scientific Researches, Bursa, Turkey, 22 - 23 October 2022, pp.874

**10. DC MANYETİK SAÇTIRMA SİSTEMİ, TASARIM VE KURULUM SÜREÇLERİ (DC MAGNETRON
SPUTTERING SYSTEM, DESIGN AND PRODUCTION PROCESSES)**

İlik E.

MAS 11. ULUSLARARASIMATEMATİK-MÜHENDİSLİK-FEN VE SAĞLIK BİLİMLERİ KONGRESİ, Tokat, Turkey, 13 - 15
March 2020

**11. Sterilization of *Bacillus Cereus* using cold flowing plasma jet of ambient air at low pressure
İLİK E., AKAN T.**

Turkish Physical Society 33rd International Physics Congress, Bodrum/MUĞLA, Turkey, 6 - 10 September 2017,
pp.679

**12. Investigation on variation of OH concentration produced in Argon post-discharge plasma interaction
reactor
İLİK E., AKAN T.**

- Turkish Physical Society 33rd International Physics Congress, Bodrum/MUĞLA, Turkey, 6 - 10 September 2017,
pp.676
13. **Düşük Basıncı Helyum Gazının Soğuk Akan Deşarj ve Post Deşarj Plazmasının İncelenmesi**
İlik E., Uçar E. F., Akan T.
V. ULUSAL GÜNEŞ VE HİDROJEN ENERJİSİ KONGRESİ, Eskişehir, Turkey, 12 - 13 May 2016
 14. **Helyum Gazının Soğuk Atmosferik Basınç Plazma Jetinin Spektroskopik İncelenmesi**
İLİK E., AKAN T.
ADIM FİZİK GÜNLERİ V, Eskişehir, Turkey, 21 - 23 April 2016
 15. **Cold Flowing Plasma with RF of Ar**
Tanışlı M., Şahin N., Mertadam S., Demir S., Akan T., İlik E.
VIII International Conference Plasma Physics and Plasma Technology (PPPT-8), Minsk, Belarus, 14 - 18 September 2015, vol.1
 16. **Comparison of optical emission spectrums of cold flowing discharge and the post discharge plasmas of air at low pressure**
İLİK E., AKAN T., ÇAĞRI D., TANIŞLI M., ŞAHİN N., SERCAN M.
5.FİZİKSEL KİMYA KONGRESİ (JOTCSA), Konya, Turkey, 16 - 19 May 2015, vol.2, pp.19-21
 17. **Argon Gazının Soğuk Akan Deşarj ve Post Deşarj Plazmasındaki Temel Farklılıkların Düşük Basıncı Belirlenmesi**
AKAN T., İLİK E., TANIŞLI M., ŞAHİN N., MERTADAM S.
Adım Fizik Günleri IV, Kütahya, Turkey, 28 - 29 May 2015
 18. **The Three Low Temperature Flowing Post Discharge Systems at Low Pressure**
İLİK E., AKAN T.
1. INTERNATIONAL PLASMA TECHNOLOGIES CONGRESS, Kayseri, Turkey, 28 - 30 April 2014

Academic and Administrative Experience

2022 - 2024	Deputy Head of Department	Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ
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Courses

Postgraduate

PARTICLE PHYSICS I, Postgraduate, 2022 - 2023

Undergraduate

WAVES AND OPTICS LABORATORY, Undergraduate, 2022 - 2023

PHYSICS I, Undergraduate, 2022 - 2023

Physics I Lab (B), Undergraduate, 2021 - 2022

Physics, Undergraduate, 2021 - 2022

Physics I Lab (A), Undergraduate, 2021 - 2022

Physics I Lab (B), Undergraduate, 2021 - 2022

Physics I Lab (A), Undergraduate, 2021 - 2022

Physics I Lab., Undergraduate, 2021 - 2022

Physics II Lab.(A), Undergraduate, 2017 - 2018

Physics I Lab.(A), Undergraduate, 2017 - 2018

Activities in Scientific Journals

FRONTIERS IN PHYSICS, Article Editor, 2023 - Continues

Memberships / Tasks in Scientific Organizations

Turkish Physics Association, Member, 2016 - 2017, Turkey

Peer Reviews in Scientific Publications

HELIYON, SCI Journal, February 2025

CERAMICS INTERNATIONAL, SCI Journal, February 2025

MATERIALS LETTERS, SCI Journal, November 2022

APPLIED SCIENCES-BASEL, SCI Journal, July 2022

MATERIALS, SCI Journal, April 2022

JAPA- Journal of Anatolian Physics and Astronomy, Other Journals, April 2022

MATERIALS, SCI Journal, March 2022

MATERIALS, SCI Journal, February 2022

PHYSICA B-CONDENSED MATTER, SCI Journal, July 2021

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, July 2021

IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, April 2020

IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, January 2020

IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, January 2019

FOUNDATIONS OF PHYSICS, SCI Journal, May 2014

Scientific Research / Working Group Memberships

Amorf Yarıiletken Malzemeler Üretim Ve Araştırma Laboratuvarı, Eskisehir Osmangazi University, Türkiye,
<https://avesis.ogu.edu.tr/arastirma-grubu/ayalab>, 2014 - Continues

Metrics

Publication: 80

Citation (WoS): 802

Citation (Scopus): 1092

H-Index (WoS): 19

H-Index (Scopus): 20

Congress and Symposium Activities

Turkish Physical Society 39th International Physics Congress, Attendee, Muğla, Turkey, 2023

BURSA 3RD International Conference on Scientific Researches, Attendee, Bursa, Turkey, 2022

MAS 11th International Congress on Mathematics, Engineering, Natural & Medical Sciences, Attendee, Tokat, Turkey, 2020

Turkish Physical Society 33rd International Physics Congress, Attendee, Muğla, Turkey, 2017

VIII International Conference Plasma Physics and Plasma Technology (PPPT-8), Attendee, Minsk, Belarus, 2015

Adım Fizik Günleri IV, Attendee, Kütahya, Turkey, 2015

5.FİZİKSEL KİMYA KONGRESİ, Attendee, Konya, Turkey, 2015

1. INTERNATIONAL PLASMA TECHNOLOGIES CONGRESS, Attendee, Kayseri, Turkey, 2014

Research Areas

Physics, High Energy Physics, Physics, Materials Science, Physics of Plasmas, Experimental Methods of Particle and Nuclear Physics