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Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2011 - 2018

Postgraduate, Kahramanmaraş Sutcu Imam University, Institute Of Science, Fizik, Turkey 2010 - 2011

Undergraduate, Balıkesir University, Necatibey Faculty Of Education, Fizik Öğretmenliği, Turkey 2002 - 2007

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Yarı-deneysel (?n) Reaksiyon Tesir Kesiti Formüllerinin Önerilmesi ve Nükleer Data Değerlendirmesi, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, 2018

Postgraduate, MANTAR ÇEŞİTLERİNDE ELEMENTAL ANALİZ VE DOĞAL RADYOAKTİVİTE ÖLÇÜMÜ , Cukurova University, Fen Bilimleri Enstitüsü, Fizik, 2011

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Nuclear physics, Nuclear Structure, Nuclear Engineering and Nuclear Energy Studies, Special nuclear reactions, Natural Sciences

Academic Titles / Tasks

Associate Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2022 - Continues

Associate Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2021 - 2022

Research Assistant PhD, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2018 - 2022

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, 2011 - 2018

Research Assistant, Universität Karlsruhe, Institut Für Neutronenphysik Und Reaktortechnik, Nuclear Data, 2013 - 2014

Research Assistant, Kahramanmaraş Sutcu Imam University, Institute Of Science, Fizik, 2010 - 2011

Courses

Radyasyon ve Uygulama Alanları, Undergraduate, 2020 - 2021

Radyasyon ve Uygulama Alanları, Undergraduate, 2019 - 2020

Radyasyon ve Tıbbi Görüntüleme, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Beta-irradiated ZnGa₂O₄:Sm³⁺ phosphor: Thermoluminescence glow curves and kinetic parameters via gel combustion synthesis**
Barad A., TOPAKSU M., Hakami J., Kaynar U., AKÇA ÖZALP S., Altowyan A. S., Aydin H., Can N.
Journal of Alloys and Compounds, vol.1002, 2024 (SCI-Expanded)
- II. **Beta irradiation-induced thermoluminescence: Glow curve analysis and kinetic parameters in combustion-synthesized undoped Ca₄YO(BO₃)₃**
Madkhli A., Jabali D., Souadi G., Sonsuz M., Kaynar U., AKÇA ÖZALP S., Ayvacikli M., Madkhali O., TOPAKSU M., Can N.
Applied Radiation and Isotopes, vol.208, 2024 (SCI-Expanded)
- III. **Assessment of structural and thermoluminescence characteristics of porcelain used as an electrical insulator**
Portakal Uçar Z. G., Akça Özalp S., Oğlakçı M., Barad A., Topaksu M.
AMERICAN CERAMIC SOCIETY, JOURNAL, vol.107, no.1, pp.640-658, 2024 (SCI-Expanded)
- IV. **Thermoluminescence behavior of Ce³⁺ doped lanthanum tri-borate phosphor for dosimetry applications**
Oğlakçı M., Portakal Uçar Z. G., Akça Özalp S., Correcher V., Benavente J. F., Sonsuz M., Can N., Halefoğlu Y. Z., Topaksu M.
CERAMICS INTERNATIONAL, vol.49, no.22PB, pp.36092-36102, 2023 (SCI-Expanded)
- V. **Unravelling the impact of unusual heating rate, dose-response and trap parameters on the thermoluminescence of Sm³⁺ activated GdAl₃(BO₃)₄ phosphors exposed to beta particle irradiation**
Souadi G., Kaynar Ü. H., Sonsuz M., Akça Özalp S., Ayvacikli M., Topaksu M., Özmen Ö., Can N.
RADIATION PHYSICS AND CHEMISTRY, vol.213, pp.111211, 2023 (SCI-Expanded)
- VI. **Synthesis and beta particle excited thermoluminescence of BaSiF₆ phosphor**
Souadi G., AKÇA ÖZALP S., Karali E. E., Kaynar U. H., Ayvacikli M., Topaksu M., Can N.
APPLIED RADIATION AND ISOTOPES, vol.181, 2022 (SCI-Expanded)
- VII. **Characterization of thermoluminescence kinetic parameters of dolomite after exposure to β-radiation dose**
Akça Özalp S., Portakal Uçar Z. G., Oğlakçı M., Yüksel M., Halefoğlu Y. Z., Topaksu M.
JOURNAL OF LUMINESCENCE, vol.240, pp.118427, 2021 (SCI-Expanded)
- VIII. **Thermoluminescence of Ce and Nd co-doped CaF₂ phosphors after beta irradiation**
Yazan H., Portakal Uçar Z. G., Akça Özalp S., Topaksu M., Townsend P., Can N.
JOURNAL OF LUMINESCENCE, vol.234, pp.117949, 2021 (SCI-Expanded)
- IX. **Effect of Sm³⁺ and Mn²⁺ incorporation on the structure and luminescence characteristics of Zn₂SiO₄ phosphor**
Portakal Uçar Z. G., Doğan T., Akça Özalp S., Kaynar Ü. H., Topaksu M.
RADIATION PHYSICS AND CHEMISTRY, vol.181, pp.109329, 2021 (SCI-Expanded)
- X. **Synthesis and photoluminescence characteristics of Dy incorporated MoO₃ phosphor: Suppression concentration quenching**
Ayvacikli M., Kaynar U. H., Karabulut Y., Canimoglu A., Bakr M., Akca S., Can N.
APPLIED RADIATION AND ISOTOPES, vol.164, 2020 (SCI-Expanded)
- XI. **Enhancing the blue luminescence behaviour of the Li co -doped novel phosphor ZnB₂O₄: Tm³⁺**
Küçük N., Kaynar U. H., Akça S., Alajlani Y., Yin L., Wang Y., Garcia Guinea J., Bulcar K., Doğan T., Karabulut Y., et al.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.838, 2020 (SCI-Expanded)

- XII. **Thermoluminescence of beta-particle induced Bern-4M muscovite**
Portakal-Uçar Z. G., Akça S., Balci-Yegen S., Yüksel M., Doğan T., Souadi G., Parlak O., Topaksu M., Can N.
RADIATION PHYSICS AND CHEMISTRY, vol.174, 2020 (SCI-Expanded)
- XIII. **Eu³⁺ and Dy³⁺ doped La₂MoO₆ and La₂Mo₂O₉ phosphors: Synthesis and luminescence properties**
Kaynar U. H., Kaynar S. C., Alajlani Y., Ayvacikli M., Karali E., Karabulut Y., Akca S., Karali T., Can N.
MATERIALS RESEARCH BULLETIN, vol.123, 2020 (SCI-Expanded)
- XIV. **Determination of thermoluminescence properties of ZnB₂O₄:Tm³⁺,Li⁺ for dosimetric purposes**
AKÇA S.
APPLIED RADIATION AND ISOTOPES, vol.157, 2020 (SCI-Expanded)
- XV. **A study on thermoluminescence behaviour of Eu doped LaB₃O₆ irradiated with beta particles**
Halefoglul Y. Z., Oglakci M., Portakal Z. G., Akca S., Souadi G. O., Canimoglu A., Topaksu M., Can N.
Radiation Physics and Chemistry, vol.168, 2020 (SCI-Expanded)
- XVI. **Comprehensive study of photoluminescence and cathodoluminescence of Eu and Tb doped Mg₂SiO₄ prepared via a solid-state reaction technique**
Ucar Z. G. P., Akca S., Dogan T., Halefoglul Y. Z., Kaynar U. H., Ayvacikli M., Garcia Guinea J., Topaksu M., Can N.
OPTICAL MATERIALS, vol.100, 2020 (SCI-Expanded)
- XVII. **Thermoluminescence properties of Tb doped Mg₂SiO₄ after beta irradiation**
AKÇA S., Portakal Z. G., DOĞAN T., Kucuk N., Canmoğlu A., TOPAKSU M., Can N.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.458, pp.12-20, 2019 (SCI-Expanded)
- XVIII. **Comparative studies on thermoluminescence characteristics of non-doped Mg₂SiO₄ prepared via a solid-state reaction technique and wet-chemical method: An unusual heating rate dependence**
Doğan T., Akça S., Yüksel M., Kucuk N., Ayvacikli M., Karabulut Y., Canmoğlu A., Topaksu M., Can N.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.795, pp.261-268, 2019 (SCI-Expanded)
- XIX. **Thermoluminescence analysis of beta irradiated ZnB₂O₄: Pr³⁺ phosphors synthesized by a wet-chemical method**
Akca S., Oğlakçı M., Portakal Z. G., Kucuk N., Bakr M., Topaksu M., Can N.
RADIATION PHYSICS AND CHEMISTRY, vol.160, pp.105-111, 2019 (SCI-Expanded)
- XX. **Characterization and thermoluminescence behavior of beta irradiated NaBaBO₃ phosphor synthesized by combustion method**
Oğlakçı M., Akça S., Halefoğlu Y. Z., Doğan T., Ayvacikli M., Karabulut Y., Topaksu M., Can N.
CERAMICS INTERNATIONAL, vol.45, pp.7011-7017, 2019 (SCI-Expanded)
- XXI. **Cathodoluminescence and thermoluminescence of ZnB₂O₄:Eu³⁺ phosphors prepared via wet-chemical synthesis**
DOĞAN T., Tormo L., AKÇA S., Kucuk N., Garcia Guinea J., Karabulut Y., Ayvacikli M., Oglakci M., TOPAKSU M., Can N.
CERAMICS INTERNATIONAL, vol.45, no.4, pp.4918-4925, 2019 (SCI-Expanded)
- XXII. **UV effect on the cathodo- and thermoluminescence properties of a gem-quality Cr-rich diaspore (alpha-AlOOH)**
TOPAKSU M., Correcher V., Boronat C., Garcia-Guinea J., Portakal Z. G., AKÇA S.
APPLIED RADIATION AND ISOTOPES, vol.141, pp.101-106, 2018 (SCI-Expanded)
- XXIII. **Heating rate properties and kinetic parameters of thermoluminescence glow curves of La-doped zinc borate**
Yüksel M., Doğan T., Balci-Yegen S., Akça S., Portakal Z. G., Kucuk N., Topaksu M.
RADIATION PHYSICS AND CHEMISTRY, vol.151, pp.149-155, 2018 (SCI-Expanded)
- XXIV. **Thermoluminescence behavior of Sm³⁺ activated ZnB₂O₄ phosphors synthesized using low temperature chemical synthesis method**
Bulcar K., Doğan T., Akça S., Yüksel M., Ayvacikli M., Karabulut Y., Kucuk N., Canimoglu A., Can N., Topaksu M.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.428, pp.65-71, 2018 (SCI-Expanded)
- XXV. **Luminescence studies of zinc borates activated with different concentrations of Ce and La under x-ray and electron excitation**

- Kucuk N., Ayyacikli M., Akça S., Yüksel M., Garcia Guinea J., Karabulut Y., Canimoglu A., Topaksu M., Can N.
APPLIED RADIATION AND ISOTOPES, vol.127, pp.35-40, 2017 (SCI-Expanded)
- XXVI. **Normal and anomalous heating rate effects on thermoluminescence of Ce-doped ZnB2O4**
DOĞAN T., YÜKSEL M., AKÇA S., PORTAKAL Z. G., BALCI YEGEN S., KÜÇÜK N., TOPAKSU M.
APPLIED RADIATION AND ISOTOPES, vol.128, pp.256-262, 2017 (SCI-Expanded)
- XXVII. **Thermoluminescence properties of annealed natural quartz after beta irradiation**
Yüksel M., Doğan T., Unsal E., Portakal Z. G., Akça S., Yeğingil Z., Topaksu M.
LUMINESCENCE, vol.31, no.8, pp.1513-1518, 2016 (SCI-Expanded)
- XXVIII. **The Comparison of (n,p), (n,α), (n,2n) and (α,n) Reaction Cross-Sections for 7Li and 9Be Target Nuclei**
TEL E., AKÇA S., SAHAN M., DEPEDELEN M., Sarpun I.
Journal of Fusion Energy, vol.35, no.4, pp.709-714, 2016 (SCI-Expanded)
- XXIX. **Semi-Empirical Formula with New Coefficients of the (α,n) Reaction Cross-Section**
AKÇA S., TEL E., GÜNGÖR S.
ACTA PHYSICA POLONICA A, vol.128, 2015 (SCI-Expanded)
- XXX. **Calculations of Double-Differential Neutron Emission Cross Sections for 9Be Target Nucleus at 14.2 MeV Neutron Energy**
SAHAN M., TEL E., ŞAHAN H., Kara A., Aydın A., KAPLAN A., Sarpun I., DEMİR B., AKÇA S., Yildiz E.
Journal of Fusion Energy, vol.34, no.3, pp.493-499, 2015 (SCI-Expanded)
- XXXI. **Radioactivity levels in some mushroom species and consequent doses**
Akça S., Söğüt O., Küçükönder E., Karatepe S., Dogru M.
Asian Journal of Chemistry, vol.26, no.3, pp.879-882, 2014 (SCI-Expanded)
- XXXII. **Evaluated gas production cross-section data for natural titanium irradiated with protons at energies up to 3 GeV**
AKÇA S., Konobeyev A., Fischer U.
Kerntechnik, vol.79, no.6, pp.467-472, 2014 (SCI-Expanded)
- XXXIII. **Calculation of excitation functions for the production of Cu and Co medical isotopes**
AKÇA S., TEL E., KARA A.
Kerntechnik, vol.78, no.6, pp.484-488, 2013 (SCI-Expanded)
- XXXIV. **(p,α) reaction cross sections calculations of fe and ni target nuclei using new developed semi-empirical formula**
TEL E., AKÇA S., KARA A., Yiğit M., Aydın A.
Journal of Fusion Energy, vol.32, no.5, pp.531-535, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **YBO3 Fosforunun Termoluminesans Dozimetrik Pikinin Kinetik Parametreleri**
Akça S.
Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, vol.15, no.1, pp.100-109, 2020 (Peer-Reviewed Journal)
- II. **3 GeV'e kadar enerjiye sahip protonlarla ışınlanan kurşun hedefi için p,d,t, 3He, ve 4He üretim tesir kesitlerinin değerlendirilmesi**
AKÇA S., Konobeyev A. Y., Fischer U.
Cumhuriyet Üniversitesi Fen Fakültesi Fen Bilimleri Dergisi (CFD), vol.35, pp.53-64, 2014 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Adli Fizik**
Sayın Ü., Topaksu M., Portakal Uçar Z. G., Avcı H., Akça Özalp S., Ece E.

Refereed Congress / Symposium Publications in Proceedings

- I. **Variation of thermoluminescence behavior of doped (Nd³⁺ and Eu³⁺) yttrium borate phosphor produced by a combustion process**
AKÇA ÖZALP S., PORTAKAL UÇAR Z. G., HALEFOĞLU Y. Z., TOPAKSU M.
International Conference on Sensor, Detector, Material Sciences and Technologies, Bolu, Turkey, 5 - 07 October 2023, pp.12-16
- II. **Thermoluminescence behavior of YBO₃ synthesized by combustion reaction versus beta radiation**
Akça S.
3. International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC-2020), Nevşehir, Turkey, 24 - 26 June 2020, pp.377
- III. **A Study on TL Properties of Natural Dolomite Mineral Irradiated with Beta Particles**
Akça S.
TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS (TPS35), Muğla, Turkey, 4 - 08 September 2019, vol.01, no.9, pp.482-490
- IV. **TL Analyses on Filter Test Results of Synthesized Un-Doped And Doped Zn₂SiO₄ Phosphors for Dosimetry Purposes**
PORTAKAL Z. G., AKÇA S., oğlakçı m., KAYNAR Ü. H., AYVACIKLI M., YÜKSEL M., DOĞAN T., TOPAKSU M., can N.
2. ULUSLARARASI GAP MATEMATİK - MÜHENDİSLİK - FEN VE SAĞLIK BİLİMLERİ KONGRESİ, Adıyaman, Turkey, 21 - 23 June 2019, pp.37-45
- V. **TL Analyses on Filter Test Results of Synthesized Un-Doped and Doped Zn₂SiO₄ Phosphors for Dosimetry Purpose**
Portakal Z. G., Akça S., Oğlakçı M., Kaynar Ü. H., Ayvıcılı M., Yüksel M., Doğan T., Topaksu M., Can N.
2. ULUSLARARASI GAP MATEMATİK - MÜHENDİSLİK - FEN VE SAĞLIK BİLİMLERİ KONGRESİ, Adıyaman, Turkey, 21 - 23 June 2019, pp.37-45
- VI. **TL Analyses on Filter Test Results of Synthesized Un-Doped and Doped Zn₂SiO₄ Phosphors for Dosimetry Purposes**
Portakal Z. G., Akça S., Oğlakçı M., Kaynar Ü. H., Ayvıcılı M., Yüksel M., Doğan T., Topaksu M., Can N.
2. ULUSLARARASI GAP MATEMATİK - MÜHENDİSLİK - FEN VE SAĞLIK BİLİMLERİ KONGRESİ, Adıyaman, Turkey, 21 - 23 June 2019, pp.9-10
- VII. **A Study on the Correction of the Trap Depth Value for Low Temperature TL Peak of Quartz**
Yüksel M., Portakal Uçar Z. G., Akça S., Topaksu M.
3rd International Symposium on Innovative Approaches in Scientific Studies, Ankara, Turkey, 19 - 21 April 2019, vol.4, no.1, pp.351-353
- VIII. **Thermoluminescence properties of Sm³⁺ doped ZnB₂O₄ phosphors synthesized by low temperature chemical synthesis method**
Bulcar K., Doğan T., Akça S., Yüksel M., Ayvıcılı M., Karabulut Y., Küçük N., Canımoğlu A., Can N., Topaksu M.
11th International Conference On Luminescence And ESR Dosimetry (LumiDoz-11), Gaziantep, Turkey, 5 - 07 September 2018, pp.36
- IX. **Natural Radioactivity Study of Soil Samples from Some Villages in Mersin**
Yüksel M., Doğan T., Kocakoç M., Akça S., Portakal Z. G., Topaksu M.
11th International Conference On Luminescence And ESR Dosimetry (LumiDoz-11), Gaziantep, Turkey, 5 - 07 September 2018, pp.39
- X. **Evaluated displacement and gas production cross-sections for materials irradiated with intermediate energy nucleons**
Konobeyev A. Y., Fischer U., Pereslavytsev P. E., Smakov S. P., Akça S.
2016 International Conference on Nuclear Data for Science and Technology, ND 2016, Bruges, Belgium, 11 - 16

September 2016, vol.146

- XI. **Evaluated P,D,T,3HE, and 4HE production cross-section data for natti irradiated neutrons at energies up to 3 GeV**
AKÇA S., Konobeyev A. Y., Fischer U., TOPAKSU M., TEL E.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017
- XII. **Evaluated p, d, t, 3He, and 4He production cross-section data for natTi irradiated with neutrons at energies up to 3 GeV**
Akça S., Konobeyev A. Y., Fischer U., Topaksu M., Tel E.
Turkish Physical Society 33th International Physics Congress(TPS33), Muğla, Turkey, 6 - 10 September 2017, pp.448
- XIII. **Calculation of Activation Energy Using VHR Method for Low Temperature Peak of Gypsum Mineral**
DOĞAN T., YÜKSEL M., PORTAKAL Z. G., BALCI YEGEN S., AKÇA S., TOPAKSU M.
RAD 2017 Fifth International Conference on Radiation and Applications in Various Fields of Research, Budva, Montenegro, 12 - 16 June 2017, vol.5, pp.235
- XIV. **Thermoluminescence (TL) Dose Response Characteristics and Resusability Properties of Natural Muscovite Mineral**
BALCI YEGEN S., AKÇA S., PORTAKAL Z. G., YÜKSEL M., DOĞAN T., PARLAK O., TOPAKSU M.
RAD 2017 Fifth International Conference on Radiation and Applications in Various Fields of Research, Budva, Montenegro, 12 - 16 June 2017, vol.5, pp.177
- XV. **Calculation of Activation Energy using various heating rate method for low temperature peak of gypsum mineral**
DOĞAN T., YÜKSEL M., PORTAKAL Z. G., BALCI YEGEN S., AKÇA S., TOPAKSU M.
Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), 12 - 16 June 2017
- XVI. **The Analysis of TL Kinetic Parameters of Apatite with CGCD method**
TOPAKSU M., YÜKSEL M., DOĞAN T., Karaman T., BALCI YEGEN S., AKÇA S., PORTAKAL Z. G.
Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), 12 - 16 June 2017
- XVII. **Investigations of Thermoluminescence Dose Response Characteristics and Reusability Properties of Muscovite Mineral**
BALCI YEGEN S., AKÇA S., PORTAKAL Z. G., YÜKSEL M., DOĞAN T., PARLAK O., TOPAKSU M.
Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), 12 - 16 June 2017
- XVIII. **A Preliminary Study of TL and OSL Traps for the Aragonite Mineral**
Yüksel M., Doğan T., Portakal Z. G., Balcı Yegen S., Akça S., Topaksu M.
Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), Podgorica, Serbia And Montenegro, 12 - 16 June 2017, pp.262
- XIX. **The Effects of Annealing on the Thermoluminescence Glow Peaks of Natural Muscovite Mineral**
Akça S., Portakal Z. G., Balcı Yegen S., Yüksel M., Doğan T., Parlak O., Topaksu M.
Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), Podgorica, Serbia And Montenegro, 12 - 16 June 2017, pp.261
- XX. **Determination of Gamma-Emitting Radionuclides in Pistachio Samples from Southeastern Anatolia Region Turkey**
Portakal Z. G., Yüksel M., Doğan T., Balcı Yegen S., Akça S., Goren E., Uğur F. A., Topaksu M.
Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), Podgorica, Serbia And Montenegro, 12 - 16 June 2017, pp.409
- XXI. **Calculation of activation energy using various heating rate method for low temperature peak of gypsum mineral**
Doğan T., Yüksel M., Portakal Z. G., Balcı Yegen S., Akça S., Topaksu M.
Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), Podgorica, Serbia And Montenegro, 12 - 16 June 2017, pp.232

- XXII. **Thermoluminescence Dose Response Characteristics and Reusability Properties of Natural Muscovite Mineral**
BALCI YEGEN S., AKÇA S., PORTAKAL Z. G., YÜKSEL M., DOĞAN T., PARLAK O., TOPAKSU M.
Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), Budva, Montenegro, 12 - 16 June 2017, pp.177
- XXIII. **A Preliminary Study of TL and OSL Traps for Aragonite mineral**
YÜKSEL M., DOĞAN T., PORTAKAL UÇAR Z. G., BALCI YEGEN S., AKÇA S., TOPAKSU M.
Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), Budva, Montenegro, 12 - 16 June 2017, pp.262
- XXIV. **Thermoluminescence (TL) Dose Response Characteristics and Reusability Properties of Muscovite Mineral**
Balci Yegen S., Akça S., Portakal Z. G., Yüksel M., Doğan T., Parlak O., Topaksu M.
Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), Podgorica, Serbia And Montenegro, 12 - 16 June 2017, pp.177
- XXV. **Analysis of Thermoluminescence Kinetic Parameters of Apatite with CGCD Method**
Topaksu M., Yüksel M., Doğan T., Karaman T., Balci Yegen S., Akça S., Portakal Z. G.
Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), Podgorica, Serbia And Montenegro, 12 - 16 June 2017, pp.263
- XXVI. **The effects of annealing on the thermoluminescence glow peaks of the natural muscovite mineral**
AKÇA S., Portakal G. Z., BALCI YEGEN S., YÜKSEL M., DOĞAN T., PARLAK O., TOPAKSU M.
RAD2017 Fifth International Conference on radiation and applicants in various fields of research, Budva, Montenegro, 12 - 16 June 2017, pp.261
- XXVII. **Thermoluminescence (TL) dose response characteristics and reusability properties of natural muscovite mineral**
BALCI YEGEN S., AKÇA S., Portakal G. Z., YÜKSEL M., DOĞAN T., PARLAK O., TOPAKSU M.
RAD2017 Fifth International Conference on Radiation and applications in various fields of research, 12 - 16 June 2017, pp.177
- XXVIII. **Measurements of radioactivity levels in soil samples from southeastern Anatolia region**
BALCI YEGEN S., PORTAKAL Z. G., AKÇA S., YÜKSEL M., DOĞAN T., GÖREN E., UĞUR F. A., TOPAKSU M.
3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT2017), Adana, Turkey, 10 - 12 May 2017, pp.120
- XXIX. **Preliminary results on dose response of serpentine mineral from Kızıldağ plateau in Karaisalı**
TOPAKSU M., DOĞAN T., BOZDAĞ E., AKÇA S., PORTAKAL Z. G., BALCI YEGEN S., PARLAK O., YÜKSEL M.
3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT2017), Adana, Turkey, 10 - 12 May 2017, pp.138
- XXX. **Measurements of radioactivity levels in soil samples from southeastern Anatolia region, Turkey**
Balci Yegen S., Portakal Z. G., Akça S., Yüksel M., Doğan T., Goren E., Uğur F. A., Topaksu M.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2017), Adana, Turkey, 10 - 12 May 2017, pp.120
- XXXI. **Influence of Sintering Time on the Thermoluminescence Characteristics of Eu³⁺ doped CaO obtained from Sea-Urchin Skeleton: A Preliminary Study**
Portakal Z. G., Balci Yegen S., Akça S., Yücel A., Depçi T., Topaksu M.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2017), Adana, Turkey, 10 - 12 May 2017, pp.154
- XXXII. **The effect of Eu dopant amount on the Characteristics of Thermoluminescence of Eu³⁺ doped CaO obtained from Sea Urchin Skeleton.**
Akça S., Balci Yegen S., Portakal Z. G., Yücel A., Depçi T., Topaksu M.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2017), Adana, Turkey, 10 - 12 May 2017, pp.149
- XXXIII. **Preliminary results on OSL dose response of serpentine mineral from Kızıldağ plateau in Karaisalı, Turkey**

- Topaksu M., Doğan T., Bozdağ E., Akça S., Portakal Uçar Z. G., Balcı Yegen S., Parlak O., Yüksel M.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2017), Adana, Turkey, 10 - 12 May 2017, pp.138
- XXXIV. **51V, 59Co, 62Ni, 93Nb ve 107,109Ag yapısal malzemeleri için (α,n) reaksiyon tesir kesitlerinin hesaplanması**
AKÇA ÖZALP S., TEL E., TOPAKSU M.
XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Kuşadası, Aydın, Turkey, 12 - 14 October 2016, pp.146
- XXXV. **Evaluated displacement and gas production cross-sections for materials irradiated with intermediate energy nucleons**
Konobeyev A. Y., Fischer U., Pereslavitsev P., Akça S.
International Conference on Nuclear Data for Science and Technology (ND2016), Bruges, Belgium, 11 - 16 September 2016, pp.77
- XXXVI. **Preliminary Results on Dose Response of Serpentinite Mineral**
Topaksu M., Bozdağ Özensoy E., Doğan T., Yüksel M., Akça S., Portakal Z. G., Balcı Yegen S., Parlak O.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT2016), Hatay, Turkey, 28 - 30 April 2016, pp.131
- XXXVII. **The cross-section calculations of neutron emission of alpha induced on 63Cu, 64,66,68Zn, 92,94Mo and 114Cd**
Akça S., Tel E., Topaksu M.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2016), Hatay, Turkey, 28 - 30 April 2016, pp.107
- XXXVIII. **The investigation of the ($?n$) reaction cross-sections for 41?A?209 target nuclei**
Akça S., Tel E., Topaksu M.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2016), Hatay, Turkey, 28 - 30 April 2016, pp.109
- XXXIX. **Excitation functions of H and He gas production cross-sections of 208Pb irradiated with proton up to 200 MeV**
Akça S., Tel E., Topaksu M.
International Vacuum Workshop, Afyonkarahisar, Turkey, 28 - 30 March 2016, pp.193
- XL. **EQUILIBRIUM AND PRE-EQUILIBRIUM CROSS-SECTION CALCULATIONS FOR SOME TARGET NUCLEI IRRADIATED WITH ALPHA**
Akça S., Tel E., Topaksu M.
The 9th International Conference on Luminescence and ESR Dosimetry (LUMIDOZ9), Antalya, Turkey, 2 - 04 September 2015, pp.70
- XLI. **Improvement of the Semi-Empirical Nuclear Reaction Cross-Sections in Magic Nuclei**
Erzin M., Tel E., Karahan İ., Akça S., Kara A.
International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT-2015), Osmaniye, Turkey, 23 - 26 April 2015, pp.96
- XLII. **Investigation of the Semi-Empirical Nuclear Reaction Cross Sections for Deformed Nuclei**
Buyun S., Akça S., Tel E., Aydın A., Şahan H.
International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT-2015), Osmaniye, Turkey, 23 - 26 April 2015, pp.110
- XLIII. **Comparison of Semi-Empirical ($?n$) Reaction Cross Sections with Nuclear Model Calculation Results**
Akça S., Tel E., Güngör S.
International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT-2015), Osmaniye, Turkey, 23 - 26 April 2015, pp.37
- XLIV. **Evaluation of p, d, t, 3He, and 4He production cross-sections for lead irradiated with protons at energies up to 3 GeV**
Akça S., Konobeyev A. Y., Fischer U.
VII. International Workshop on Nuclear Structure Properties, Sinop, Turkey, 27 - 29 October 2014, pp.71
- XLV. **Semi-empirical Formula with new coefficients of ($?n$) reaction cross-section**

Akça S., Tel E.

International Conference on Computational and Experimental Science and Engineering(ICCESEN-2014), Antalya, Turkey, 25 - 29 October 2014, pp.81

XLVI. p, d, t, 3He and 4He Production Cross-Section Calculations for natTi Induced with Proton up to 280 MeV

Akça S., Konobeyev A. Y., Fischer U.

TURKISH PHYSICAL SOCIETY 31st INTERNATIONAL PHYSICS CONGRESS(TPS31), Muğla, Turkey, 21 - 24 July 2014, pp.429

XLVII. Alpha Emission Cross-sections of Deuteron Particles Induced on Some Structural Fusion Materials

Akça S., Tel E., Kara A.

TURKISH PHYSICAL SOCIETY 30th INTERNATIONAL PHYSICS CONGRESS(TPS30), İstanbul, Turkey, 2 - 05 September 2013, pp.578

XLVIII. Nükleer Tıpta Kullanılan 61,64,67Cu Radyoizotoplarının Üretiminin (p,a) Reaksiyon Tesir Kesiti

Akça S., Tel E., Kara A., Aydın A.

Ulusal Proton Hızlandırıcıları Çalıştayı, Ankara, Turkey, 18 - 19 April 2013, pp.1

XLIX. Mantar Türlerinde 90Sr ve 129I Radyoizotop Konsantrasyonlarının ve Toplam Alfa, Toplam Beta Seviyelerinin Belirlenmesi

AKÇA S., SÖĞÜT Ö., BALI T., DOĞRU M.

5. Nükleer Yapı Özellikleri Çalıştayı, Muş, Turkey, 12 - 14 October 2011, pp.40

L. Mantar Türlerinde 90Sr ve 129I Radyoizotop Konsantrasyonlarının ve Toplam Alfa, Beta Seviyelerinin Belirlenmesi

Akça S., Söğüt Ö., Bali T., Doğru M.

5. Nükleer Yapı Özellikleri Çalıştayı, Muş, Turkey, 12 - 14 October 2011, pp.40

LI. Mantar Türlerinde Doğal Radyoaktivite Ölçümü

Akça S., Söğüt Ö., Doğru M.

Ulusal Lüminesans ve Dozimetri Kongresi, Mersin, Turkey, 8 - 09 September 2011, pp.17

LII. XRF, WDXRF ve ICP-OES tekniği kullanılarak süt ve süt ürünlerinde ağır metal analizi

Bali T., Söğüt Ö., Reyhanlıoğlu H., Akça S., Özdemir Y.

TURKISH PHYSICAL SOCIETY, 27th INTERNATIONAL PHYSICS CONGRESS(TPS27), İstanbul, Turkey, 14 - 17 September 2010, pp.428

Other Publications

I. Ç.Ü. FEF Ders Notu Genel Fizik III Laboratuvarı

UFUKTEPE Y., KARAKILÇIK M., YÜKSEL M., AKYOL M., AKÇA G., AKÇA S., GÜRSUL M., ŞEKER(ZAİMOĞLU) Z., ÇETİN G., YEĞEN S. B., et al.

Lecture Note, pp.145, 2015

II. Genel Fizik III Laboratuvarı

UFUKTEPE Y., Karakılçık M., YÜKSEL M., AKYOL M., AKÇA G., AKÇA S., GÜRSUL M., ŞEKER(ZAİMOĞLU) Z., ÇETİN G., Balcı Yegen S., et al.

Experiment, pp.1, 2015

Supported Projects

PORTAKAL UÇAR Z. G., AYVACIKLI M., OĞLAĞCI M., KAYNAR Ü. H., TOPAKSU M., YÜKSEL M., DOĞAN T., CAN N., AKÇA S., Project Supported by Higher Education Institutions, Nadir Toprak Elementi Katkılı Zn₂SiO₄ Fosforunun Dozimetrik Özelliklerinin TL Yöntemiyle Belirlenmesi, 2019 - 2021

AKÇA ÖZALP S., TOPAKSU M., PORTAKAL Z. G., HALEFOĞLU Y. Z., YÜKSEL M., OĞLAĞCI M., Project Supported by Higher Education Institutions, Dolomit Mineralinin Termoluminesans (TL) Özelliklerinin İncelenmesi, 2018 - 2021

TOPAKSU M., PARLAK O., BALCI YEGEN S., PORTAKAL Z. G., YÜKSEL M., AKÇA S., DOĞAN T., Project Supported by Higher Education Institutions, Muskovit Mineralinin Termoluminesans(TL) Özelliklerinin İncelenmesi, 2016 - 2018

YÜKSEL M., TOPAKSU M., DOĞAN T., AKÇA S., UĞUR F. A., PORTAKAL Z. G., Project Supported by Higher Education Institutions, Tarsus İlçesinin Doğal Radyoaktivitesinin Belirlenmesi ve İzo-radyoaktivite Haritasının Çıkarılması, 2015 - 2018

TOPAKSU M., YÜKSEL M., AKÇA S., DOĞAN T., PARLAK O., Project Supported by Higher Education Institutions, Serpantin Mineralinin Karakterizasyonu ve Lüminesans Özellikleri, 2015 - 2018

TOPAKSU M., AKÇA S., Project Supported by Higher Education Institutions, YARI-DENEYSEL (?n) REAKSİYON TESİR KESİTİ FORMÜLLERİNİN ÖNERİLMESİ VE NÜKLEER DATA DEĞERLENDİRMESİ, 2013 - 2018

DOĞAN T., YÜKSEL M., TOPAKSU M., BALCI YEGEN S., PORTAKAL Z. G., AKÇA S., Project Supported by Higher Education Institutions, Calculation of Activation Energy Using VHR Method for Low Temperature Peak of Gypsum Mineral, 2017 - 2017

TOPAKSU M., KAYIŞ TOPAKSU A., PORTAKAL Z. G., AKÇA S., BALCI YEGEN S., YÜKSEL M., DOĞAN T., Project Supported by Higher Education Institutions, International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT2017), 2017 - 2017

TOPAKSU M., YÜKSEL M., DOĞAN T., BALCI YEGEN S., AKÇA S., PORTAKAL Z. G., KARAMAN T., Project Supported by Higher Education Institutions, Analysis of Thermoluminescence Kinetic Parameters of Apatite with CGCD Method, 2017 - 2017

YÜKSEL M., DOĞAN T., PORTAKAL Z. G., BALCI YEGEN S., AKÇA S., TOPAKSU M., Project Supported by Higher Education Institutions, A Preliminary Study of TL and OSL Traps for Aragonite Mineral, 2017 - 2017

TOPAKSU M., UĞUR F. A., YÜKSEL M., DOĞAN T., PORTAKAL Z. G., AKÇA S., BALCI YEGEN S., Project Supported by Higher Education Institutions, Güneydoğu Anadolu Bölgesindeki Toprak ve Fıstık Örneklerinin Doğal Radyoaktivitesinin Belirlenmesi, 2015 - 2017

TOPAKSU M., YAZICI A. N., YÜKSEL M., DOĞAN T., PORTAKAL Z. G., AKÇA S., BALCI YEGEN S., KAFADAR V. E., AYVACIKLI M., KARALI T., et al., Project Supported by Higher Education Institutions, 10th International Conference on Luminescence and ESR Dosimetry, 2016 - 2016

Memberships / Tasks in Scientific Organizations

RADKOR ? Radyasyondan Korunma Uzmanları Derneği, Member, 2016 - Continues

Metrics

Publication: 95

Citation (WoS): 398

Citation (Scopus): 421

H-Index (WoS): 13

H-Index (Scopus): 14

Congress and Symposium Activities

Turkish Physical Society 35th International Physics Congress, Attendee, Muğla, Turkey, 2019

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

Fifth International Conference on Radiation and Applications in Various Fields of Research (RAD2017), Attendee, Serbia And Montenegro, 2017

International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2017), Attendee, Adana, Turkey, 2017

XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Attendee, Aydın, Turkey, 2016

International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2016), Attendee, Hatay, Turkey, 2016
International Vacuum Workshop, IV. Charged Particle Optics Winter School (YUKPOP 2016), Attendee, Afyon, Turkey, 2016
The 9th International Conference on Luminescence and ESR Dosimetry, Attendee, Antalya, Turkey, 2015
International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology, Attendee, Osmaniye, Turkey, 2015
VII. International Workshop on Nuclear Structure Properties, Attendee, Sinop, Turkey, 2014
International Conference on Computational and Experimental Science and Engineering, Attendee, Antalya, Turkey, 2014
Turkish Physical Society 31th International Physics Congress, Attendee, Muğla, Turkey, 2014
Turkish Physical Society 30th International Physical Congress, Attendee, İstanbul, Turkey, 2013
Ulusal Proton Hızlandırıcıları Çalıştayı, Attendee, Ankara, Turkey, 2013
5. Nükleer Yapı Özellikleri Çalıştayı, Attendee, Muş, Turkey, 2011
Ulusal Lüminesans ve Dozimetri Kongresi, Attendee, Mersin, Turkey, 2011
Ulusal Lüminesans ve Dozimetri Kongresi (LUMİDOZ-V), Attendee, Mersin, Turkey, 2011
Turkish Physical Society 27th International Physics Congress, Attendee, İstanbul, Turkey, 2010

Awards

AKÇA S., Erasmus Staj Hareketliliği, ERASMUS, October 2013
AKÇA S., Bölüm İkinciliği, Balıkesir Üniversitesi, June 2007

Non Academic Experience

Karlsruhe Institute of Technology (KIT), Institute for Neutron Physics and Reactor Technology (INR), Almanya