

Assoc. Prof. SİBEL AKÇA ÖZALP

Personal Information

Email: sakca@cu.edu.tr

Web: <https://avesis.cu.edu.tr//sakca>

International Researcher IDs

ORCID: 0000-0001-8827-9242

Publons / Web Of Science ResearcherID: B-8664-2018

ScopusID: 55650676600

Yoksis Researcher ID: 102780

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-deneyisel (γ ,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, Universitat 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 irradiation-induced thermoluminescence: Glow curve analysis and kinetic parameters in combustion-synthesized undoped $\text{Ca}_4\text{YO}(\text{BO}_3)_3$**
Madkhali 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)
- II. **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)
- III. **Thermoluminescence behavior of Ce^{3+} 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)
- IV. **Unravelling the impact of unusual heating rate, dose-response and trap parameters on the thermoluminescence of Sm^{3+} activated $\text{GdAl}_3(\text{BO}_3)_4$ phosphors exposed to beta particle irradiation**
Souadi G., Kaynar Ü. H., Sonsuz M., Akça Özalp S., Ayvacıklı M., Topaksu M., Özmen Ö., Can N.
RADIATION PHYSICS AND CHEMISTRY, vol.213, pp.111211, 2023 (SCI-Expanded)
- V. **Synthesis and beta particle excited thermoluminescence of BaSiF_6 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)
- VI. **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)
- VII. **Thermoluminescence of Ce and Nd co-doped CaF_2 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)
- VIII. **Effect of Sm^{3+} and Mn^{2+} incorporation on the structure and luminescence characteristics of Zn_2SiO_4 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)
- IX. **Enhancing the blue luminescence behaviour of the Li co -doped novel phosphor $\text{ZnB}_2\text{O}_4:\text{Tm}^{3+}$**
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)
- X. **Synthesis and photoluminescence characteristics of Dy incorporated MoO_3 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. **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)
- XII. **Eu^{3+} and Dy^{3+} doped La_2MoO_6 and $\text{La}_2\text{Mo}_2\text{O}_9$ 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)

- XIII. **Determination of thermoluminescence properties of ZnB₂O₄:Tm³⁺,Li⁺ for dosimetric purposes**
AKÇA S.
APPLIED RADIATION AND ISOTOPES, vol.157, 2020 (SCI-Expanded)
- XIV. **A study on thermoluminescence behaviour of Eu doped LaB₃O₆ irradiated with beta particles**
Halefoglu 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)
- XV. **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., Halefoglu Y. Z., Kaynar U. H., Ayvacikli M., Garcia Guinea J., Topaksu M., Can N.
OPTICAL MATERIALS, vol.100, 2020 (SCI-Expanded)
- XVI. **Thermoluminescence properties of Tb doped Mg₂SiO₄ after beta irradiation**
AKÇA S., Portakal Z. G., DOĞAN T., Kucuk N., Canımoğlu 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)
- XVII. **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., Ayvacıklı M., Karabulut Y., Canımoğlu A., Topaksu M., Can N.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.795, pp.261-268, 2019 (SCI-Expanded)
- XVIII. **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)
- XIX. **Characterization and thermoluminescence behavior of beta irradiated NaBaBO₃ phosphor synthesized by combustion method**
Oğlakçı M., Akça S., Halefoğlu Y. Z., Doğan T., Ayvacıklı M., Karabulut Y., Topaksu M., Can N.
CERAMICS INTERNATIONAL, vol.45, pp.7011-7017, 2019 (SCI-Expanded)
- XX. **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., Ayvacıklı M., Oglakci M., TOPAKSU M., Can N.
CERAMICS INTERNATIONAL, vol.45, no.4, pp.4918-4925, 2019 (SCI-Expanded)
- XXI. **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)
- XXII. **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)
- XXIII. **Thermoluminescence behavior of Sm³⁺ activated ZnB₂O₄ phosphors synthesized using low temperature chemical synthesis method**
Bulcar K., Doğan T., Akça S., Yüksel M., Ayvacıklı M., Karabulut Y., Kucuk N., Canımoğlu 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)
- XXIV. **Luminescence studies of zinc borates activated with different concentrations of Ce and La under x-ray and electron excitation**
Kucuk N., Ayvacikli 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)
- XXV. **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)

- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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., Yıldız E.
Journal of Fusion Energy, vol.34, no.3, pp.493-499, 2015 (SCI-Expanded)
- XXX. **Radioactivity levels in some mushroom species and consequent doses**
Akça S., Sögüt O., Küçükönder E., Karatepe S., Dogru M.
Asian Journal of Chemistry, vol.26, no.3, pp.879-882, 2014 (SCI-Expanded)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **(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. **YB03 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.
in: Adli Bilimler ve Kriminalistik Ansiklopedisi Cilt 8 - Adli Temel Bilimler Adli Doğa Bilimleri, İ. Hamit HANCI, Ogün VURAL, Editor, Adalet Yayınevi, Ankara, pp.3969-3996, 2023

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., Ayvacıklı 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., Ayvacıklı 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., Ayvacıklı M., Karabulut Y., Küçük N., Canımoglu 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., Simakov 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

Balcı 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., Balcı 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

Balcı 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., Balcı 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., Balcı 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., Pereslavytsev 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 Serpentine Mineral

Topaksu M., Bozdağ Özensoy E., Doğan T., Yüksel M., Akça S., Portakal Z. G., Balı 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 ^{63}Cu , $^{64,66,68}\text{Zn}$, $^{92,94}\text{Mo}$ and ^{114}Cd

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 (α, n) reaction cross-sections for ^{41}A 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 ^{208}Pb 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 (α, 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 (α, 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 YEĞEN 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, Serpantinit

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: 94

Citation (WoS): 212

Citation (Scopus): 247

H-Index (WoS): 10

H-Index (Scopus): 12

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

International Conference on Computational and Experimental Science and Engineering, Attendee, Antalya, Turkey, 2014

VII. International Workshop on Nuclear Structure Properties, Attendee, Sinop, 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