

## Assoc. Prof. SİBEL AKÇA ÖZALP

### Personal Information

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### Education Information

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

Postgraduate, Kahramanmaraş Sutcu Imam University, Fen Bilimleri Enstitüsü, Fizik, Turkey 2010 - 2011

Undergraduate, Balıkesir University, Necatibey Eğitim Fakültesi, Fizik Öğretmenliği, Turkey 2002 - 2007

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Yarı-deneysel ( $\gamma$ ) 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

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

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, Fen Bilimleri Enstitüsü, Fizik, 2010 - 2011

### Courses

Radyasyon ve Uygulama Alanları, Undergraduate, 2019 - 2020

Radyasyon ve Tıbbi Görüntüleme, Undergraduate, 2017 - 2018

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. Enhancing the blue luminescence behaviour of the Li co -doped novel phosphor ZnB<sub>2</sub>O<sub>4</sub>: Tm<sup>3+</sup>

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 (Journal Indexed in SCI)

- II. **Synthesis and photoluminescence characteristics of Dy incorporated MoO<sub>3</sub> 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 (Journal Indexed in SCI)
- III. **Thermoluminescence of beta-particle induced Bi<sup>3+</sup> doped ZnO phosphor**  
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 (Journal Indexed in SCI)
- IV. **Determination of thermoluminescence properties of ZnB<sub>2</sub>O<sub>4</sub>:Tm<sup>3+</sup>,Li<sup>+</sup> for dosimetric purposes**  
AKÇA S.  
APPLIED RADIATION AND ISOTOPES, vol.157, 2020 (Journal Indexed in SCI)
- V. **Eu<sup>3+</sup> and Dy<sup>3+</sup> doped La<sub>2</sub>MoO<sub>6</sub> and La<sub>2</sub>Mo<sub>2</sub>O<sub>9</sub> 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 (Journal Indexed in SCI)
- VI. **A study on thermoluminescence behaviour of Eu doped LaB<sub>3</sub>O<sub>6</sub> 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 (Journal Indexed in SCI Expanded)
- VII. **Comprehensive study of photoluminescence and cathodoluminescence of Eu and Tb doped Mg<sub>2</sub>SiO<sub>4</sub> 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 (Journal Indexed in SCI)
- VIII. **Thermoluminescence properties of Tb doped Mg<sub>2</sub>SiO<sub>4</sub> 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 (Journal Indexed in SCI)
- IX. **Comparative studies on thermoluminescence characteristics of non-doped Mg<sub>2</sub>SiO<sub>4</sub> 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., Canımoğlu A., Topaksu M., Can N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.795, pp.261-268, 2019 (Journal Indexed in SCI)
- X. **Thermoluminescence analysis of beta irradiated ZnB<sub>2</sub>O<sub>4</sub>: Pr<sup>3+</sup> 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 (Journal Indexed in SCI)
- XI. **Characterization and thermoluminescence behavior of beta irradiated NaBaBO<sub>3</sub> 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 (Journal Indexed in SCI)
- XII. **Cathodoluminescence and thermoluminescence of ZnB<sub>2</sub>O<sub>4</sub>:Eu<sup>3+</sup> 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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **Thermoluminescence behavior of Sm<sup>3+</sup> activated ZnB<sub>2</sub>O<sub>4</sub> phosphors synthesized using low**

### **temperature chemical synthesis method**

Bulcar K., Doğan T., Akça S., Yüksel M., Ayvacıklı M., Karabulut Y., Kucuk N., Canımoglu 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 (Journal Indexed in SCI)

- XVI. **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., Canımoglu A., Topaksu M., Can N. APPLIED RADIATION AND ISOTOPES, vol.127, pp.35-40, 2017 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI Expanded)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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., Aydin A., KAPLAN A., Sarpun I., DEMİR B., AKÇA S., Yildiz E. Journal of Fusion Energy, vol.34, no.3, pp.493-499, 2015 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **(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., Aydin A. Journal of Fusion Energy, vol.32, no.5, pp.531-535, 2013 (Journal Indexed in SCI)

### **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 (Other Refereed National Journals)
- 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 (National Refreed

## Refereed Congress / Symposium Publications in Proceedings

- I. **Thermoluminescence behavior of YBO<sub>3</sub> 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
- II. **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
- III. **TL Analyses on Filter Test Results of Synthesized Un-Doped and Doped Zn<sub>2</sub>SiO<sub>4</sub> 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
- IV. **TL Analyses on Filter Test Results of Synthesized Un-Doped And Doped Zn<sub>2</sub>SiO<sub>4</sub> 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 Zn<sub>2</sub>SiO<sub>4</sub> 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
- VI. **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
- VII. **Thermoluminescence properties of Sm<sup>3+</sup> doped ZnB<sub>2</sub>O<sub>4</sub> 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
- VIII. **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
- IX. **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
- X. **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
- XI. **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

- XII. **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
- XIII. **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
- XIV. **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
- 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. **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
- XVII. **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
- XVIII. **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
- XIX. **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
- XX. **Determination of Gamma-Emitting Radionuclides in Pistachio Samples from Southeastern Anatolia Region Turkey**  
Portakal Z. G. , Yüksel M., Doğan T., Balci 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. **Thermoluminescence (TL) dose response characteristics and reusability properties of natural muscovite mineral**  
BALCI YEGEN S., AKÇA S., Portakal G. Z. , DOĞAN T., YÜKSEL M., PARLAK O., TOPAKSU M.  
RAD2017 Fifth International Conference on Radiation and applications in various fields of research, 12 - 16 June 2017, pp.177

- XXII. **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
- XXIII. **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
- XXIV. **The effects of annealing on the thermoluminescence glow peaks of the natural muscovite mineral**  
AKÇA S., Portakal Z. G. , 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
- XXV. **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
- XXVI. **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
- XXVII. **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
- XXVIII. **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
- XXIX. **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
- XXX. **Influence of Sintering Time on the Thermoluminescence Characteristics of Eu<sup>3+</sup> 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
- XXXI. **The effect of Eu dopant amount on the Characteristics of Thermoluminescence of Eu<sup>3+</sup> 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
- XXXII. **Measurements of radioactivity levels in soil samples from southeasternAnatolia 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
- XXXIII. **51V, 59Co, 62Ni, 93Nb ve 107,109Ag yapısal malzemeleri için ( $\alpha,n$ ) 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
- XXXIV. **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
- XXXV. **The cross-section calculations of neutron emission of alpha induced on  $^{63}\text{Cu}$ ,  $^{64,66,68}\text{Zn}$ ,  $^{92,94}\text{Mo}$  and  $^{114}\text{Cd}$**   
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
- 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 investigation of the  $(?,n)$  reaction cross-sections for  $^{41}\text{A}^{209}$  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
- XXXVIII. **Excitation functions of H and He gas production cross-sections of  $^{208}\text{Pb}$  irradiated with proton up to 200 MeV**  
Akça S., Tel E., Topaksu M.  
International Vacuum Workshop, Afyonkarahisar, Turkey, 28 - 30 March 2016, pp.193
- XXXIX. **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
- XL. **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
- XLI. **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
- 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. **Evaluation of p, d, t,  $^3\text{He}$ , and  $^4\text{He}$  production cross-sections for lead irradiated with protons at energies up to 3 GeV**  
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## Supported Projects

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## **Memberships / Tasks in Scientific Organizations**

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

## **Edit 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

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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  
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## **Awards**

AKÇA S., Erasmus Staj Hareketliliği, ERASMUS, October 2013

AKÇA S., Bölüm İkinciliği, Balıkesir Üniversitesi, June 2007