

Assoc. Prof. ZİYAFER GİZEM PORTAKAL UÇAR

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International Researcher IDs

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Biography

Z.G. Portakal-Ucar currently works at the Department of Nuclear Physics, Cukurova University. Gizem does research in Radiation Measurement, Detection, and Dosimetry as well as Medical Imaging.

Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik/Nükleer Fizik A.B.D., Turkey 2012 - 2018

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik/Nükleer Fizik A.B.D., Turkey 2010 - 2012

Postgraduate, Ege University, Fen Bilimleri Enstitüsü/ Nükleer Bilimler Enstitüsü, Nükleer Bilimler Bölümü / Nükleer Teknoloji A.B.D., Turkey 2009 - 2010

Undergraduate, Dokuz Eylul University, Buca Eğitim Fakültesi, Fizik Öğretmenliği A.B.D., Turkey 2004 - 2009

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, The Use of Package Programs (SPSS and MINITAB), ÇÜ, Ziraat Fakültesi, 2018

Education Management and Planning, Dalga ve Parçacık Tipi Radyasyon Etkileşimleri Monte Carlo Uygulamaları, Ondokuz Mayıs Üniversitesi, 2017

Education Management and Planning, İş Sağlığı ve Güvenliğinde Radyasyondan Korunma Çalıştayı ve Kursu, Radyasyondan Korunma Uzmanları Derneği, 2016

Education Management and Planning, Imaging Course for Physicists, European Society for Radiotherapy&Oncology, 2014

Education Management and Planning, Physics of Modern Radiotherapy, Brachytherapy, Radiation Protection, European School of Medical Physics and European Scientific Institute, 2013

Education Management and Planning, APEX-Alpha/Beta, Canberra, 2013

Education Management and Planning, Uygulamalı Dozimetri ve Tarihlendirme Yaz Okulu, Ankara Üniversitesi, Nükleer Bilimler Enstitüsü, 2013

Education Management and Planning, Medikal Fizik'te Hesaplamalı Yöntemler Yaz Okulu, İstanbul Aydın Üniversitesi, 2013

Other, Verification of intensity modulated treatment plans based on GafChromic films and 2D Array, University Medical Centre Mannheim, Medical Faculty Mannheim, Heidelberg University, 2013

Education Management and Planning, Statistics and uncertainty determination for radionuclide applications, European Commission, Joint Research Centre Institute for Reference Materials and Measurements, 2012

Education Management and Planning, Physics of Modern Radiotherapy, Brachytherapy, Radiation Protection, European School of Medical Physics and European Scientific Institute, 2011

Education Management and Planning, Portal Dosimetry Training 18 h, Varian (ÇÜ, Tıp Fakültesi, Radyasyon Onkolojisi ABD), 2011

Education Management and Planning, Low / High Energy Clinac 5h, Varian (ÇÜ, Tıp Fakültesi, Radyasyon Onkolojisi ABD), 2010

Education Management and Planning, Joint EC/IAEA Nuclear Science Training Course with NUCLEONICA (NuTRoNS), IAEA-Environment Laboratories, 2010

Education Management and Planning, Use of reference materials and the estimation of measurement uncertainty, Europe & Metrology in Turkey, JRC-IRMM, 2010

Dissertations

Doctorate, GEL-PHANTOM STUDY FOR TARGET VOLUME OPTIMIZATION IN HDR AND/OR LDR BRACHYTHERAPY USING ADVANCED IMAGING TECHNIQUES, Cukurova University, Fizik, Fizik/Nükleer Fizik, 2018

Postgraduate, BAŞ-BOYUN KANSERLERİNİN TEDAVİSİNDE YOĞUNLUK AYARLI RADYOTERAPİ VE 3 BOYUTLU KONFORMAL RADYOTERAPİ TEDAVİ PLANLARININ KARŞILAŞTIRILMASI, Cukurova University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 2012

Research Areas

Health Sciences, Radiation Oncology, Radiodiagnostic, Physics, Interdisciplinary Physics and Related Science and Technology Areas, Biophysics and Medical Physics, Nuclear physics, Natural Sciences

Academic Titles / Tasks

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

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

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, 2010 - 2018

Research Assistant, Cukurova University, Dahili Tıp Bilimleri, Radyasyon Onkolojisi, 2010 - 2012

Academic and Administrative Experience

Courses

Physics II, Undergraduate, 2023 - 2024

Calculus II, Undergraduate, 2023 - 2024

Physics II, Undergraduate, 2023 - 2024

Calculus II, Undergraduate, 2023 - 2024

Calculus I, Undergraduate, 2023 - 2024

Tıbbi Görüntüleme Sistemleri , Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Calculus I, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **Synthesis and thermoluminescence behavior of novel Sm³⁺ doped YCa₄₀(BO₃)₃ under beta irradiation**
Altowyan A. S., Sonsuz M., Kaynar U., Hakami J., PORTAKAL UÇAR Z. G., Ayvacikli M., TOPAKSU M., Can N.
Ceramics International, 2024 (SCI-Expanded)
- III. **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)
- IV. **Anomalous heating rate effect in GdAl₃(BO₃)₄:Dy³⁺ under beta radiation stimulation: Analysis of dose response and kinetic parameters**
Alajlani Y., Oğlakçı M., Bulcar K., Kaynar Ü. H., Portakal Uçar Z. G., Athlawi H., Ayvacikli M., Topaksu M., Can N.
CERAMICS INTERNATIONAL, vol.49, no.24PA, pp.243-254, 2023 (SCI-Expanded)
- V. **Unusual heating rates, dose responses and kinetic parameters detected on thermoluminescence from YAl₃(BO₃)₄:Sm³⁺ phosphors**
Altowyan A. S., Kaynar Ü. H., Bulcar K., Oğlakçı M., Portakal Uçar Z. G., Hakami J., Topaksu M., Can N.
CERAMICS INTERNATIONAL, vol.49, no.20, pp.33291-33304, 2023 (SCI-Expanded)
- VI. **A thermoluminescence study of Tb³⁺ doped LaB₃O₆: Dosimetric characteristics and kinetic parameters**
Portakal Uçar Z. G., Oğlakçı M., Correcher V., Sonsuz M., Can N., Halefoğlu Y., Topaksu M.
JOURNAL OF LUMINESCENCE, vol.253, no.119493, pp.1-11, 2023 (SCI-Expanded)
- VII. **Samarium doped Ca₃Y₂B₄O₁₂ phosphor prepared by combustion method: Anomalous heating rate effect, dosimetric features, and TL kinetic analyses**
Hakami J., Oğlakçı M., Portakal Uçar Z. G., Sonsuz M., Kaynar Ü. H., Ayvacikli M., Topaksu M., Can N.
JOURNAL OF LUMINESCENCE, vol.251, no.119200, pp.1-11, 2022 (SCI-Expanded)
- VIII. **Thermoluminescence properties and kinetic parameters of β -irradiated Turkish slate stone**
Portakal Uçar Z. G.
APPLIED RADIATION AND ISOTOPES, vol.180, no.110062, pp.1-11, 2022 (SCI-Expanded)
- IX. **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)
- X. **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)
- XI. **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)

- XII. **Thermoluminescence study and evaluation of trapping parameters of samarium doped barium silicate phosphor**
Alajlani Y., Oglakci M., Kaynar U. H., Ayvacikli M., Portakal-Ucar Z. G., TOPAKSU M., Can N.
JOURNAL OF ASIAN CERAMIC SOCIETIES, vol.9, no.1, pp.268-280, 2021 (SCI-Expanded)
- XIII. **Structural and luminescence characterization of Ce³⁺ and Mn²⁺ co-activated zinc silicate nanocrystal obtained by gel combustion synthesis**
Portakal-Ucar Z. G., Oglakci M., Yüksel M., Ayvacikli M., Can N.
MATERIALS RESEARCH BULLETIN, vol.133, 2021 (SCI-Expanded)
- XIV. **Thermoluminescence properties of beta particle irradiated Ca₃Al₂O₆ phosphor relative to environmental dosimetry**
Bakr M., Portakal-Ucar Z. G., Yüksel M., Kaynar U. H., Ayvacikli M., Benourджа S., Canimoglu A., Topaksu M., Hammoudeh A., Can N.
JOURNAL OF LUMINESCENCE, vol.227, 2020 (SCI-Expanded)
- XV. **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)
- XVI. **Thermoluminescence behaviour of europium doped magnesium silicate after beta exposure**
Uçar Z. G., Kaynar Ü., DOĞAN T., Souadi G., Ayvacikli M., Canimoglu A., TOPAKSU M., Can N.
Optical Materials, vol.104, 2020 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **Thermoluminescence properties of Tb doped Mg₂SiO₄ after beta irradiation**
AKÇA S., Portakal Z. G., DOĞAN T., Kucuk N., Canimoğlu 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)
- XX. **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)
- XXI. **Synthesis and luminescence characterization of microcrystalline Nd-doped calcium sulfate**
Yüksel M., Doğan T., Portakal Z. G., Topaksu M.
APPLIED RADIATION AND ISOTOPES, vol.148, pp.197-203, 2019 (SCI-Expanded)
- XXII. **UV effect on the cathodo- and thermoluminescence properties of a gem-quality Cr-rich diaspor (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. **Doping Sm³⁺ into ZnB₂O₄ phosphors and their structural and cathodoluminescence properties**
Kucuk N., Bulcar K., DOĞAN T., Garcia Guinea J., Portakal Z. G., Karabulut Y., Ayvacikli M., Canimoğlu A., TOPAKSU M., Can N.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.748, pp.245-251, 2018 (SCI-Expanded)
- XXV. **Design and characterization of tissue-mimicking gel phantoms for diffusion kurtosis imaging**
Portakal Z. G., Shermer S., Jenkins C., SPEZI E., PERRETT T., TUNÇEL N., Phillips J.

- MEDICAL PHYSICS, vol.45, no.6, pp.2476-2485, 2018 (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., Kucuk N., Topaksu M.
APPLIED RADIATION AND ISOTOPES, vol.128, pp.256-262, 2017 (SCI-Expanded)
- XXVII. **Luminescence characteristics of Dy³⁺ incorporated zinc borate powders**
Portakal Z. G., DOĞAN T., Yegen S., Kucuk N., Ayvacikli M., Garcia Guine J., Canımoğlu A., Karabulut Y., TOPAKSU M., Can N.
JOURNAL OF LUMINESCENCE, vol.188, pp.409-417, 2017 (SCI-Expanded)
- XXVIII. **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)

Articles Published in Other Journals

- I. **Thermoluminescence characteristics and kinetic analysis of beta irradiated Ca₄LaO(BO₃)₃ phosphor**
Portakal Uçar Z. G.
Cumhuriyet Science Journal, vol.42, no.3, pp.702-714, 2021 (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, Ögün VURAL, Editor, Adalet Yayınevi, Ankara, pp.3969-3996, 2023
- II. **Separation of Uranium by an Extractant Encapsulated Magnetic Alginate Gels Separation of U(VI) by Mag-Alg Gels**
PORTAKAL Z. G.
in: Technological Innovations in Sensing and Detection of Chemical, Biological, Radiological, Nuclear Threats and Ecological Terrorism, Vaseashta A., Braman E., Susmann P., Editor, Springer Science Business Media B.V., Dordrecht, pp.357-360, 2012

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. **Characterization of MgAl₂O₄ Crystal by Thermoluminescence Method**
Soğan S., Barad A., Portakal Uçar Z. G., Halefoğlu Y. Z., Topaksu M.
3. INTERNATIONAL SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, İstanbul, Turkey, 27 - 28 August 2022, pp.505-506
- III. **Evaluation of Preliminary Thermoluminescence Characteristics of Porcelain Content Used in Light Switches**
Portakal Uçar Z. G.
V-International European Conference on Interdisciplinary Scientific Research, Valencia, Spain, 28 - 29 January 2022, pp.1
- IV. **Thermoluminescence Characteristics of Beta-Irradiated Ca₃Al₂O₆:Dy³⁺ Phosphor Synthesized by**

Gel Combustion Method

Portakal Uçar Z. G.

4. International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology , Nevşehir, Turkey, 26 - 28 May 2021, pp.46-51

- 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. **Determination of Thermoluminescence Kinetic Parameters of Sm³⁺ doped Zn₂SiO₄ after β-irradiation**
PORTAKAL Z. G.
2. ULUSLARARASI GAP MATEMATİK - MÜHENDİSLİK - FEN VE SAĞLIK BİLİMLERİ KONGRESİ, Adıyaman, Turkey, 21 - 23 June 2019, pp.53-54
- VII. **A Study on the Correction of the Trap Depth Value for Low Temperature TL Peak of Quartz**
YÜKSEL M., PORTAKAL 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. **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. **Assessment of Non-Gaussian Diffusion-Weighted MRI: Comparing the use of different pulse sequences in high b-values**
PORTAKAL Z. G., SHERMER S., SPEZI E., TUNCEL N., TOPAKSU M., PHILLIPS J.
Türk Fizik Dernei 33. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 10 September 2017, pp.427
- X. **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
- XI. **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
- XII. **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), Podgorica, Serbia And Montenegro, 12 - 16 June 2017, pp.177
- XIII. **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
- XIV. **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
- XV. **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

- XVI. **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, 12 - 16 June 2017, pp.232
- XVII. **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
- XVIII. **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
- 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. **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
- XXI. **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
- XXII. **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
- XXIII. **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
- XXIV. **Preliminary results on dose response of serpentine mineral from Kızıldağ plateau in Karaisalı, Turkey**
Topaksu M., Doğan T., Bozdağ E., Akça S., Portakal 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
- XXV. **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
- XXVI. **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

- XXVII. **EP-1711 Effect of Noise Floor Suppression on Diffusion Kurtosis for Prostate Brachytherapy**
PORTAKAL Z. G., Shermer S., Spezi E., Perrett T., Phillips J.
ESTRO 36, VIYENA, Austria, 5 - 09 May 2017
- XXVIII. **PROSTAT BRAKİTERAPİSİNDE HEDEF HACİM TANIMININ İYİLEŞTİRİLMESİ AMACIYLA İLERİ GÖRÜNTÜLEME TEKNİKLERİNİN OPTİMİZASYONU**
PORTAKAL Z. G., PHILLIPS J., SHERMER S., SPEZI E., TUNCEL N., TOPAKSU M.
NBTK 2016, Turkey, 12 - 14 October 2016
- XXIX. **Synthesis and Thermoluminescence Characterization of CaSO₄:Nd**
YÜKSEL M., DOĞAN T., PORTAKAL Z. G., TOPAKSU M.
10th International Conference on Luminescence and ESR Dosimetry, Adana, Turkey, 5 - 07 September 2016, pp.23
- XXX. **CREATING A TISSUE MIMICKING PHANTOM APPROPRIATE FOR RELAXOMETRY DIFFUSION IMAGING AND ULTRASOUND ELASTOGRAPHY**
PORTAKAL Z. G., PHILLIPS J., SHERMER S., RICHARDS C., SPEZI E., GARCIA L., PERRETT T., LEWIS D., TUNCEL N.
ECMP 2016 Conference, 1 - 04 September 2016
- XXXI. **MULTIMODAL MAGNETIC RESONANCE IMAGING AND SPECTROSCOPY FOR PROSTATE CANCER SCREENING AND STAGING**
SOPHIE S., PAPADOPOULOS I., PORTAKAL Z. G., PHILLIPS J., EVANS R.
ECMP 2016 Conference, 1 - 04 September 2016
- XXXII. **LUMINESCENCE STUDY OF Nd DOPED CaSO₄**
YÜKSEL M., PORTAKAL Z. G., DOĞAN T., TOPAKSU M.
RAD 2016 Conference, 23 - 27 May 2016
- XXXIII. **Luminescence Study of Neodymium-Doped Calcium Sulfate**
YÜKSEL M., PORTAKAL Z. G., DOĞAN T., TOPAKSU M.
Fourth International Conference on Radiation and Applications in Various Fields of Research (RAD2016), Niş, Serbia And Montenegro, 23 - 27 May 2016, pp.181
- XXXIV. **Feasibility of gel phantoms in MRI for the assessment of kurtosis for prostate brachytherapy**
PORTAKAL Z. G., PHILLIPS J., RICHARDS C., SPEZI E., PERRETT T., LEWIS D., YEĞİNGİL Z.
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- XXXV. **Preliminary Results on Dose Response of Serpantinite Mineral**
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International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT2016), Hatay, Turkey, 28 - 30 April 2016, pp.131
- XXXVI. **Preliminary Results on Dose Response of Serpantinite Mineral**
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- XL. **THERMOLUMINESCENCE GLOW CURVE PROPERTIES OF TLD-500 DOSIMETER**
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- XLIV. A Preliminary Thermoluminescence Study of CaSO₄**
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International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2015), Osmaniye, Turkey, 23 - 26 April 2015, vol.-, pp.62
- XLV. THERMOLUMINESCENCE GLOW CURVE PROPERTIES OF TLD-500 DOSIMETER**
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3rd International Conference on Radiation and Applications in Various Fields of Research (RAD), Budva, MONTENEGRO, 8 - 12 June 2015, pp.387-392
- XLVI. Türkiye ve İspanya Kaynaklı Metamorfik Kuvarsların Beta Doz Yanıtlarının Karşılaştırılması**
YÜKSEL M., TOPAKSU M., YEĞİNGİL Z., KURT K., DOĞAN T., NUR N., PORTAKAL Z. G.
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- XLVII. Radyoterapide Kullanılan EBT3 Gafkromik Filmlerin Dozimetrik Karakterizasyonu**
PORTAKAL Z. G., YEĞİNGİL Z., YÜKSEL M.
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- LI. Separation of Uranium by an Extractant Encapsulated Magnetic Alginate Gels Separation of U Vi by Mag Alg Gels**
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- LII. LiF:Mg,Ti (TLD-100) Dozimetresinin Kalibrasyonu ve Doz-Enerji Cevabı**
Gülmen M., YEĞİNGİL Z., YÜKSEL M., Sarıgül N., PORTAKAL Z. G., Gürlek A. K.
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- LIII. Tüm Vücut Işınlaması ve Dozimetrik Hesaplamalara Genel Bakış**
Sarıgül N., YEĞİNGİL Z., Gülmen M., YÜKSEL M., PORTAKAL Z. G., Gürlek A. K.
Lüminesans Dozimetri 5 Ulusal Bilimsel Toplantı (LUMIDOZ5), Mersin, Turkey, 8 - 09 September 2011, pp.19
- LIV. Radyasyonun Kanser Oluşumu ve Kanser Tedavisi Üzerindeki Etkileri**
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- LX. **Tüm Vücut Işınlaması ve Dozimetrik Hesaplamalara Genel Bakış**
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- LXII. **Nuclear Reactors and Perspective of Turkey to Nuclear Energy**
PORTAKAL Z. G.
ICAST, İzmir, Turkey, 25 - 26 May 2010, pp.5

Supported Projects

- AKÇA ÖZALP S., HALEFOĞLU Y. Z., TOPAKSU M., PORTAKAL UÇAR Z. G., Project Supported by Higher Education Institutions, YBO3:Nd3 Fosforunun Sentezlenmesi, Termolüminesans (TL) Dozimetrik Özelliklerinin İncelenmesi ve TL Kinetik Parametrelerinin Hesaplanması, 2023 - Continues
- TOPAKSU M., KAYNAR Ü. H., AYVACIKLI M., AKÇA ÖZALP S., PORTAKAL UÇAR Z. G., CAN N., Project Supported by Higher Education Institutions, ZrO2; Tb, Sm, Eu Katkılı Fosforların Lüminesans Özelliklerinin Belirlenmesi, 2023 - Continues
- TOPAKSU M., YÜKSEL M., PORTAKAL UÇAR Z. G., Project Supported by Higher Education Institutions, Termolüminesans ve Optiksel Uyarılmayla Lüminesans Tarihlendirme Laboratuvarının Altyapısının Geliştirilmesi, 2022 - Continues
- Kaynar Ü. H., Ayvacıklı M., Ekdal Karalı E., Çam Kaynar S., Çoban M. B., Tüzün Özmen Ö., Gök C., Topaksu M., Portakal Uçar Z. G., Can N., TUBITAK Project, Bor Tabanlı Nadir Toprak Elementi (Re) Katkılı Fosforların Teknolojik Kullanılabilirliğinin Araştırılması, 2024 - 2027
- PORTAKAL UÇAR Z. G., TOPAKSU M., AKÇA ÖZALP S., Project Supported by Higher Education Institutions, Çeşitli Aydınlatma ve İç Tesisat Malzemelerinde Kullanılan Porselen İçeriklerin Termolüminesans (TL) Dozimetresi Olarak Kullanılabilirliklerinin İncelenmesi, 2021 - 2024
- HALEFOĞLU Y. Z., TOPAKSU M., AKÇA S., PORTAKAL Z. G., DOĞAN T., OĞLAKÇI M., Project Supported by Higher Education Institutions, FARKLI TÜRDE İNORGANİK FOSFORLARIN HAZIRLANMASI SENTEZLENMESİ VE LÜMİNESANS ÖZELLİKLERİNİN İNCELENMESİ, 2018 - 2024
- PORTAKAL UÇAR Z. G., AYVACIKLI M., OĞLAKÇI 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., OĞLAKÇI M., Project Supported by Higher Education Institutions, Dolomit Mineralinin Termolüminesans (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 Termolüminesans(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., PORTAKAL Z. G., Project Supported by Higher Education Institutions, Gel-Phantom Study for Target Volume Optimization in HDR and/or LDR Brachytherapy Using Advanced Imaging Techniques, 2014 - 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

YÜKSEL M., DOĞAN T., PORTAKAL Z. G., TOPAKSU M., Project Supported by Higher Education Institutions, NADİR TOPRAK ELEMENTİ (NTE) KATKILANMIŞ KALSİYUM SÜLFAT (CaSO₄) ÜRETİMİ VE DOZİMETRİK ÖZELLİKLERİNİN BELİRLENMESİ, 2014 - 2015

Activities in Scientific Journals

SCIREA Journal of Physics, Committee Member, 2019 - Continues

SCIREA Journal of Materials, Committee Member, 2019 - Continues

Radiation Science and Technology (RST), Committee Member, 2019 - Continues

Memberships / Tasks in Scientific Organizations

Radyasyondan Korunma Uzmanları Derneği, Member, 2016 - Continues

European Society for Radiotherapy and Oncology, Member, 2013 - Continues

The American Association of Physicists in Medicine, Member, 2011 - Continues

Health Physics Society, Member, 2014 - 2015

Scientific Refereeing

APPLIED RADIATION AND ISOTOPES, SCI Journal, September 2022

SOLID STATE COMMUNICATIONS, SCI Journal, August 2022

APPLIED RADIATION AND ISOTOPES, SCI Journal, June 2022

RADIATION PHYSICS AND CHEMISTRY, SCI Journal, April 2022

APPLIED RADIATION AND ISOTOPES, SCI Journal, March 2022

International Journal of Radiology & Radiation Therapy (IJRRT), Other Indexed Journal, June 2021

International Journal of Radiology & Radiation Therapy (IJRRT), Other Indexed Journal, April 2021

Journal of Radiation Research and Applied Sciences, SCI Journal, December 2019

Journal of Radiation Research and Applied Sciences, SCI Journal, December 2019

International Journal of Radiology & Radiation Therapy, Other Indexed Journal, November 2019

Metrics

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H-Index (Scopus): 14

Congress and Symposium Activities

4. International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'21), Attendee, Nevşehir, Turkey, 2021

2. Uluslararası GAP Matematik - Mühendislik - Fen ve Sağlık Bilimleri Kongresi, Attendee, Adıyaman, Turkey, 2019

LUMIDOZ XI (11th International Conference on Luminescence and ESR Dosimetry), Attendee, Gaziantep, Turkey, 2018

TFD 33 (Türk Fizik Derneği 33. Uluslararası Fizik Kongresi), Attendee, Muğla, Turkey, 2017

RAD 2017 (Fifth International Conference on Radiation and Dosimetry in Various Fields of Research), Attendee, Podgorica, Serbia And Montenegro, 2017

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

NBTK 2016 (XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi), Attendee, İzmir, Turkey, 2016

ECMP 2016 (European Congress of Medical Physics), Attendee, Athens, Greece, 2016

LUMIDOZ X (International Conference on Luminescence and ESR Dosimetry), Attendee, Adana, Turkey, 2016

RADKOR II İş Sağlığı ve Güvenliğinde Radyasyondan Korunma Çalıştayı, Attendee, İzmir, Turkey, 2016

RAD 2016 (Fourth International Conference on Radiation and Dosimetry in Various Fields of Research), Attendee, Nish, Serbia And Montenegro, 2016

ESTRO 35 (35th International Conference of European Society of Radiation Oncologists), Attendee, Turin, Italy, 2016

LUMIDOZ VIII (International Conference on Luminescence and ESR Dosimetry), Attendee, Ankara, Turkey, 2014

RAD 2014 (Second International Conference on Radiation and Dosimetry in Various Fields of Research), Attendee, Nish, Serbia And Montenegro, 2014

EMIT Workshop S04-11 Statistics and Uncertainty Determination for Radionuclide Applications, Attendee, İzmir, Turkey, 2012

LUMIDOZ V (Lüminesans Dozimetri Kongresi), Attendee, Mersin, Turkey, 2011

Joint EC/IEAE Nuclear Science Training Course with NUCLEONICA', Attendee, Monte Carlo, Monaco, 2010

NATO-ASI Workshop (Technological Innovations in Detection and Sensing of Chem.-Bio-Radiological-Nuclear and Echological Terrorism), Attendee, Chisinau, Moldova, 2010

ICAST 4 (International Student Conference on Advanced Science and Technology), Attendee, İzmir, Turkey, 2010

ISCBPU 5 (International Student Conference of Balcan Physics Union), Attendee, Muğla, Turkey, 2007

UFOK 3 (Ulusal Fizik Öğrencileri Kongresi), Attendee, Eskişehir, Turkey, 2007

Scholarships

2214/A Yurt Dışı Araştırma Burs Programı, TÜBİTAK, 2015 - 2016

Nucletron travel grant for attending the ESTRO teaching course on "Imaging course for physicists", Other International Organizations, 2014 - 2014

LIFELONG LEARNING PROGRAMME Erasmus Placement Mobility, European Commission, 2012 - 2013

Awards

PORTAKAL UÇAR Z. G., En iyi Poster, XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, October 2016

PORTAKAL UÇAR Z. G., Best Student Contribution, International Conferences on Radiation and Applications, May 2014

Non Academic Experience

Hospital, Velindre Cancer Centre, Velindre NHS Trust, Cardiff, United Kingdom, Medical Physics

University, Medizinischen Fakultät Mannheim der Ruprecht-Karls-Universität Heidelberg, Mannheim, GERMANY, Medical Physics