

# Prof. MUSTAFA HİCABİ BÖLÜKDEMİR

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: B-7538-2016

ScopusID: 8938677400

Yoksis Researcher ID: 124022

## Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2004 - 2007

Postgraduate, Tokat Gaziosmanpaşa University, Graduate School Of Natural And Applied Sciences, Fizik (Yl) (Tezli), Turkey 2001 - 2004

Undergraduate, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, Turkey 1997 - 2001

## Certificates, Courses and Trainings

Education Management and Planning, 2237-A LİSANSÜSTÜ AKADEMİK DANIŞMANLIK EĞİTİMİ (TÜBİTAK DESTEKLİ), 2021

## Dissertations

Doctorate, Sodyum klorür ve potasyum klorürün optik uyarmalı lüminesans (OSL) kinetiği, Gazi University, Fen Bilimleri Enstitüsü, 2007

Postgraduate, Optik uyarmalı lüminesans (OSL) yönteminin yaş tayini için Tokat-Balıca mağarasından alınan örneklerle uygulanması, Tokat Gaziosmanpaşa University, 2004

## Research Areas

Radiation Biophysics, Nuclear physics, General Nuclear Reactions, Nuclear Structure, Experimental Methods of Particle and Nuclear Physics, Radioactive decay and in-beam spectroscopy

## Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Fizik, 2022 - Continues

Research Assistant, Gazi University, Fen Fakültesi, Fizik, 2008 - 2011

Assistant Professor, Gazi University, Fen Fakültesi, Fizik, 2008 - 2008

Research Assistant, Gazi University, Fen Fakültesi, Fizik, 2005 - 2008

Research Assistant, Tokat Gaziosmanpaşa University, Graduate School Of Natural And Applied Sciences, Fizik (YI) (Tezli), 2002 - 2004

## Academic and Administrative Experience

Araştırma Geliştirme Kurum Koordinatörü, Gazi University, Rektörlük, 2024 - Continues

Manager of Research and Application Center, Gazi University, Araştırma Ve Uygulama Merkezleri, Temel Ve Mühendislik Bilimleri Merkez Laboratuvarı Uygulama Ve Araştırma Merkezi, 2022 - 2024

Gazi University, Polatlı Fen-Edebiyat Fakültesi, Fizik Bölümü, 2012 - 2013

## Courses

Nükleer Fizik -1, Undergraduate, 2024 - 2025

Nükleer Teknoloji ve Uygulamaları, Doctorate, 2023 - 2024

Radyasyondan Korunma -1 , Postgraduate, 2024 - 2025

İleri Nükleer Fizik 1, Doctorate, 2022 - 2023

İleri Nükleer Fizik 1, Postgraduate, 2022 - 2023

RADYASYON FİZİĞİ, Postgraduate, 2022 - 2023

## Advising Theses

Bölükdemir M. H., CHARACTERIZATION OF DIFFERENT TYPES OF HPGe DETECTORS WITH EXPERIMENTAL AND MONTE CARLO METHODS, Doctorate, E.UYAR(Student), 2022

Bölükdemir M. H., THE EFFECT OF BIOMATERIALS ON SECONDARY NEUTRON PRODUCTION IN HADRON THERAPY, Doctorate, A.PEHLİVANLI(Student), 2022

BÖLÜKDEMİR M. H., The Design, Production And Testings Of A Coupler For Radio Frequency Particle Accelerator, Doctorate, E.ÇİÇEK(Student), 2020

BÖLÜKDEMİR M. H., Investigation Of Interactions Of Proton And Carbon Beams With Tissue Equivalent Targets, Doctorate, F.EKİNCİ(Student), 2019

BÖLÜKDEMİR M. H., Investigation Of Scattering Doses Using Error Calculations In Radiotherapy For Patients With Implants, Postgraduate, S.AYAN(Student), 2016

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Analytical study of the heat capacity and entropy of ZrM (M=N and C) compounds**  
Gökbulut M., Koç H., BÖLÜKDEMİR M. H., ESER E.  
International Journal of Modern Physics B, vol.38, no.21, 2024 (SCI-Expanded)
- II. **The effect of two-part dead layer thickness on the efficiency curve of a P-TYPE HPGe detector calculated using the Monte Carlo method**  
Aksoy G., Ünlü H., Orhan N., Yüksel A., BÖLÜKDEMİR M. H.  
Radiation Physics and Chemistry, vol.215, 2024 (SCI-Expanded)
- III. **Monte Carlo simulation study on the cause of the formation of the efficiency curve at low energies in germanium detectors**  
Aksoy G., Ünlü H., BÖLÜKDEMİR M. H.  
Applied Radiation and Isotopes, vol.192, 2023 (SCI-Expanded)

- IV. **Heat Capacity of Layered Perovskite Compounds: EsBaCuFeO5 (Es = Ho, Gd, and Yb)**  
KOÇ H., BÖLÜKDEMİR M. H., ESER E.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.259, no.11, 2022 (SCI-Expanded)
- V. **The effect of front edge on efficiency for point and volume source geometries in p-type HPGe detectors**  
Uyar E., Bölükdemir M. H.  
Nuclear Engineering and Technology, vol.54, no.11, pp.4220-4225, 2022 (SCI-Expanded)
- VI. **Characterisation of two p-type HPGe detectors by measurements and Monte Carlo simulations**  
Uyar E., Bölükdemir M. H.  
Measurement, vol.204, pp.1-7, 2022 (SCI-Expanded)
- VII. **Investigation of the effects of biomaterials on proton Bragg peak and secondary neutron production by the Monte Carlo method in the slab head phantom**  
Pehlivanlı A., BÖLÜKDEMİR M. H.  
Applied Radiation and Isotopes, vol.180, 2022 (SCI-Expanded)
- VIII. **Investigation of shape effects and dead layer thicknesses of a coaxial HPGe crystal on detector efficiency by using PHITS Monte Carlo simulation**  
Bölükdemir M. H., Uyar E., Aksoy G., Ünlü H., Dikmen H., Özgür M.  
Radiation Physics and Chemistry, vol.189, 2021 (SCI-Expanded)
- IX. **Investigation of the effect of copper contact pin on efficiency in HPGe detectors using Monte Carlo method**  
Uyar E., Aksoy G., Ünlü H., Bölükdemir M. H.  
Journal of Instrumentation, vol.16, no.11, 2021 (SCI-Expanded)
- X. **A study on heat capacity of oxide and nitride nuclear fuels by using Einstein-Debye approximation**  
Eser E., Duyuran B., Bolukdemir M. H., Koc H.  
Nuclear Engineering and Technology, vol.52, no.6, pp.1208-1212, 2020 (SCI-Expanded)
- XI. **Electromagnetic simulations, manufacturing and low power measurements of a 352.21 MHz RF power coupler for the SANAEM RFQ project**  
Cicek E., BÖLÜKDEMİR M. H., Kilic I., Yasatekin B., Alacakir A.  
JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)
- XII. **Kinetic Study on the OSL Technique Using Human Blood Sample**  
KOÇ K., Tanir G., Aksoy G., BÖLÜKDEMİR M. H.  
NEUROQUANTOLOGY, vol.16, no.4, pp.41-46, 2018 (SCI-Expanded)
- XIII. **Calculation of thermophysical properties of copper compounds in CuCl production cycle**  
BÖLÜKDEMİR M. H., Koc H., Eser E.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.112, pp.258-261, 2018 (SCI-Expanded)
- XIV. **Measurement of the distribution of radiation in the area surrounding the target mass using optically stimulated luminescence technique**  
Tanir A. G., Yedek H., KOÇ K., BÖLÜKDEMİR M. H.  
APPLIED RADIATION AND ISOTOPES, vol.119, pp.23-27, 2017 (SCI-Expanded)
- XV. **Direct Determination of Radiation Dose in Human Blood**  
Tanir A. G., Gulec O., ŞAHİNER E., BÖLÜKDEMİR M. H., KOÇ K., MERİÇ N., Keles S. K.  
NEUROQUANTOLOGY, vol.14, no.1, pp.28-35, 2016 (SCI-Expanded)
- XVI. **On the stopping power for low energy positrons**  
Tanir G., Bolukdemir M. H., Keles S., Goker I.  
Chinese Journal of Physics, vol.50, no.3, pp.425-433, 2012 (SCI-Expanded)
- XVII. **Measurement of dose given by Co-60 in radiotherapy with TLD-500**  
Tanir G., Cengiz F., BÖLÜKDEMİR M. H.  
RADIATION PHYSICS AND CHEMISTRY, vol.81, no.4, pp.355-357, 2012 (SCI-Expanded)
- XVIII. **The effect of the initial exciton numbers on  $^{54,56}\text{Fe}(p, xp)$  Pre-Equilibrium Reactions**  
Bolukdemir M. H., Tel E., Aydin A., Okuducu S., Kaplan A.  
Physics of Atomic Nuclei, vol.74, no.2, pp.209-215, 2011 (SCI-Expanded)

- XIX. **Neutron skin effect of some Mo isotopes in pre-equilibrium reactions**  
 Bolukdemir M. H., Tel E., Okuducu S., Akti N. N.  
 Pramana - Journal of Physics, vol.76, no.3, pp.457-469, 2011 (SCI-Expanded)
- XX. **Investigation of the neutron emission spectra of some deformed nuclei for (n,xn) reactions up to 26 MeV energy**  
 Kaplan A., Buyukuslu H., Tel E., Aydin A., Bolukdemir M. H.  
 Indian Journal of Physics, vol.85, no.11, pp.1615-1629, 2011 (SCI-Expanded)
- XXI. **Investigation of some structural fusion materials for (n,  $\alpha$ ) reactions at the 14-15 MeV energy region**  
 Tel E., Sahan M., Aydin A., Bolukdemir M. H., Sahan H., Ugur F. A.  
 Journal of Fusion Energy, vol.30, no.1, pp.26-33, 2011 (SCI-Expanded)
- XXII. **An alternative view on the kinetics of optical stimulated luminescence decay**  
 Tanir G., BÖLÜKDEMİR M. H.  
 JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.285, no.3, pp.563-568, 2010 (SCI-Expanded)
- XXIII. **Investigation of coulomb and pairing effects using new developed empirical formulas for proton-induced reaction cross sections**  
 Tel E., Aydin E. G., Aydin A., Kaplan A., Bolukdemir M. H., Okuducu S.  
 Physics of Atomic Nuclei, vol.73, no.3, pp.412-419, 2010 (SCI-Expanded)
- XXIV. **Theoretical cross sections of  $^{209}\text{Bi}$ ,  $^{232}\text{Th}$ ,  $^{235}\text{U}$  and  $^{238}\text{U}$  on deuteron-induced reactions**  
 Buyukuslu H., Kaplan A., Tel E., Aydin A., Yildirim G., Bolukdemir M. H.  
 Annals of Nuclear Energy, vol.37, no.4, pp.534-539, 2010 (SCI-Expanded)
- XXV. **Improved Formula for (n,  $^3\text{He}$ ) Fusion Reactions Cross Sections Using Optical Model**  
 Bolukdemir M. H., Tel E., Akti N. N., Aydin A., Okuducu S.  
 Journal of Fusion Energy, vol.29, no.1, pp.13-18, 2010 (SCI-Expanded)
- XXVI. **Production cross sections of medical  $\gamma$  in radionuclides**  
 Büyüksulu H., KAPLAN A., Yildirim G., Aydin A., Tel E., BÖLÜKDEMİR M. H.  
 Kerntechnik, vol.75, no.3, pp.103-108, 2010 (SCI-Expanded)
- XXVII. **Excitation functions of some neutron production targets on (d,2n) reactions**  
 Kaplan A., Buyukuslu H., Aydin A., Tel E., Yildirim G., Bolukdemir M. H.  
 Journal of Fusion Energy, vol.29, no.2, pp.181-187, 2010 (SCI-Expanded)
- XXVIII. **Investigation of neutron skin effect with density dependence by using a new calculation method for initial exciton numbers on pre-equilibrium reactions**  
 Tel E., Bolukdemir M. H., Okuducu S., Aydin A., Kaplan A.  
 Physica Scripta, vol.80, no.6, 2009 (SCI-Expanded)
- XXIX. **Calculation of nuclear level density parameters of some light deformed medical radionuclides using collective excitation modes of observed nuclear spectra**  
 Okuducu S., Akti N. N., Sarac H., Bolukdemir M. H., Tel E.  
 Modern Physics Letters A, vol.24, no.33, pp.2681-2691, 2009 (SCI-Expanded)
- XXX. **The study of (n,d) reaction cross sections for new evaluated semi-empirical formula using optical model**  
 Boeluekdemir M. H., Tel E., Okuducu S., Aydin A.  
 Journal of Fusion Energy, vol.28, no.4, pp.398-403, 2009 (SCI-Expanded)
- XXXI. **New evaluated semi-empirical formula using optical model for 14-15 MeV (n, t) reaction cross sections**  
 Tel E., Durgu C., Aydin A., Boeluekdemir M. H., Kaplan A., Okuducu S.  
 Journal of Fusion Energy, vol.28, no.4, pp.377-384, 2009 (SCI-Expanded)
- XXXII. **Calculation of radii and density of 7-19B isotopes using effective skyrme force**  
 Tel E., Okuducu S., Tanir G., Akti N. N., Bolukdemir M. H.  
 Communications in Theoretical Physics, vol.49, no.3, pp.696-702, 2008 (SCI-Expanded)
- XXXIII. **Semi-empirical systematics of (n, 2n), (n,  $\alpha$ ) reactions cross sections at 1415 MeV neutron energy**  
 Tel E., Okuducu S., Boeluekdemir M. H., Tanir G.

- International Journal of Modern Physics E, vol.17, no.3, pp.567-583, 2008 (SCI-Expanded)
- XXXIV. **Irradiation effect on dielectric properties and electrical conductivity of Au/SiO<sub>2</sub>/n-Si (MOS) structures**  
TATAROĞLU A., Altındal Ş., Boeluekdemir M. H., Tanir G.  
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, vol.264, no.1, pp.73-78, 2007 (SCI-Expanded)
- XXXV. **Infrared stimulated luminescence-decay shape from NaCl as a function of radiation doses**  
Tanir G., BÖLÜKDEMİR M. H.  
RADIATION MEASUREMENTS, vol.42, no.10, pp.1723-1726, 2007 (SCI-Expanded)
- XXXVI. **Effects of beta-ray irradiation on the C-V and G/ω-V characteristics of Au/SiO<sub>2</sub>/n-Si (MOS) structures**  
TATAROĞLU A., Bolukdemir M. H., Tanir G., Altındal Ş., Bulbul M. M.  
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, vol.254, no.2, pp.273-277, 2007 (SCI-Expanded)
- XXXVII. **IRSL characteristics of NaCl and KCl relative to dosimeter**  
Tanir G., Bolukdemir M. H., Catli S., Tel E.  
RADIATION MEASUREMENTS, vol.42, no.1, pp.29-34, 2007 (SCI-Expanded)
- XXXVIII. **Activation energy of NaCl as a function of radiation dose**  
Tanir G., Bolukdemir M. H.  
Journal of Radioanalytical and Nuclear Chemistry, vol.270, no.2, pp.413-416, 2006 (SCI-Expanded)
- XXXIX. **Application of the luminescence single-aliquot technique for dose estimation in the Marmara Sea**  
Tanir G., Sencan E., Bolukdemir M. H., TÜRKÖZ M. B., Tel E.  
Journal of Environmental Radioactivity, vol.84, no.3, pp.409-416, 2005 (SCI-Expanded)
- XL. **Comparison of the decay-rate parameter of the luminescence signal generated by various laboratory radiation doses**  
Tanir G., TÜRKÖZ M. B., Sencan E., Bolukdemir M. H., Tel E., Okuducu S.  
Journal of Radioanalytical and Nuclear Chemistry, vol.265, no.3, pp.399-403, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Comparison of Experimental and Monte Carlo Efficiencies of 0.5g/cc Epoxy Matrix Marinelli Source with Multiple Radioactive Nuclides**  
Aksoy G., Ünlü H., ORHAN N., BÖLÜKDEMİR M. H.  
Gazi University Journal of Science Part A: Engineering and Innovation, vol.9, no.4, pp.359-366, 2022 (Peer-Reviewed Journal)
- II. **The Effect of the Second Peak formed in Biomaterials used in a Slab Head Phantom on the Proton Bragg Peak**  
Ekinci F., BÖLÜKDEMİR M. H.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.1, pp.129-136, 2020 (ESCI)
- III. **Calculation of Neutron Density Distributions of Tin Isotopes Using the Thomas Fermi Approximation**  
ESER E., yalçın a., BÖLÜKDEMİR M. H., gökbulut m., KOÇ H.  
International journal of modern engineering research, vol.6, no.12, pp.59-65, 2016 (Peer-Reviewed Journal)
- IV. **The effects of plaster on radiation doses given to patients**  
Karaman O., Tanir A. G., BÖLÜKDEMİR M. H.  
TURKISH JOURNAL OF PHYSICS, vol.39, no.1, pp.31-36, 2015 (ESCI)
- V. **Usage of attenuation coefficients of some tissue-equivalent materials**  
Tanir A. G., Ketenci F. S., BÖLÜKDEMİR M. H.  
TURKISH JOURNAL OF PHYSICS, vol.39, no.1, pp.69-74, 2015 (ESCI)
- VI. **Effects of different types of nuclear radiations on optically stimulated luminescence**  
TANIR A. G., BÖLÜKDEMİR M. H., KIZILIRMAK T. N.

TURKISH JOURNAL OF PHYSICS, vol.37, pp.363-367, 2013 (Scopus)

VII. **Application of active OSL Approximation to some experimental optical stimulated luminescence decay**

TANIR A. G., BÖLÜKDEMİR M. H.

Turkish Journal of Physics, vol.35, no.3, pp.265-272, 2011 (Scopus)

## Books & Book Chapters

I. **8. ENDÜSTRİYEL VE ANALİTİK UYGULAMALARI**

Bölükdemir M. H., Arı V., Aytekin H., Kayış Topaksu A., Gürler O., Gümüş H., Yalçın S., Reyhancan İ. A., Kara A., Duran H., et al.

in: Nükleer Fizik İlkeler ve Uygulamalar, Abdullah Aydın, İsmail Hakkı Sarpün, Eyyup Tel, Abdullah Kaplan, Member Of Editors Board, Nobel Yayın Dağıtım, Ankara, pp.205-215, 2018

II. **Bölüm 20 Elektrik Alanlar; Bölüm 21 Gauss Yasası; Bölüm 22 Elektriksel Potansiyel**

YILDIZ D. E., Aydoğru S. y., KURT H. H., ŞAFAK ASAR Y., Hacıismailoğlu M. C., KURT E., AKIN B., BÖLÜKDEMİR M. H., KARADAĞ F., EKİCİBİL A., et al.

in: Fen ve mühendislik için fizik, Esra Yıldız, Erol Kurt, H.Hilal Kurt, Editor, Nobel Yayınevi, Ankara, pp.223-252, 2015

III. **Radyasyon ve Radyasyondan Korunma Fiziği**

Arasoğlu A., Aslan N., Aydın A., Babacan T., Boztosun İ., Bulur E., Engin B., Gümüş H., Kaplan A., Karadağ M., et al. Palme Yayın Dağıtım, Ankara, 2013

## Refereed Congress / Symposium Publications in Proceedings

I. **Comparison of the Monte Carlo simulations for modeling a well-type HPGe detector**

Bölükdemir M. H., Uyar E.

10th Jubilee International Conference on Radiation in Various Fields of Research (RAD 2022 Summer Edition Conference), Herceg Novi, Montenegro, 25 - 29 July 2022, pp.80

II. **Study on the efficiency of p-type HPGe detector using PHITS MC for samples with volumetric geometry**

Uyar E., Bölükdemir M. H.

10th Jubilee International Conference on Radiation in Various Fields of Research (RAD 2022 Spring Edition Conference), Herceg Novi, Montenegro, 13 - 17 June 2022, pp.130

III. **Calculation of Secondary Neutron Spectrum and Additive Dose in a Water Phantom of 135 MeV/u Carbon Ion Beam by Monte Carlo Method**

Pehlivanlı A., Bölükdemir M. H.

XV. International Conference on Nuclear Structure Properties, Kırıkkale, Turkey, 28 - 30 June 2022, pp.18

IV. **Determination of Front and Lateral Dead Layer Thickness of a p-type HPGe Detector by Monte Carlo Method**

Aksoy G., Ünlü H., Bölükdemir M. H.

XV. International Conference on Nuclear Structure Properties, Kırıkkale, Turkey, 28 - 30 June 2022, pp.91

V. **Evaluating the Performance of n-type HPGe Detector Modeled as Sharp and Rounded Edge Using PHITS MC**

UYAR E., BÖLÜKDEMİR M. H.

TURKISH PHYSICAL SOCIETY 37TH INTERNATIONAL PHYSICS CONGRESS, Bodrum, Turkey, 01 September 2021

VI. **INVESTIGATION OF THE EFFECT OF COPPER COOLING ROD ON DETECTOR EFFICIENCY WITH MONTE CARLO METHOD IN HPGe DETECTORS**

UYAR E., BÖLÜKDEMİR M. H.

XIV. International Conference on Nuclear Structure Properties, NSP2021, Konya, Turkey, 02 June 2021

- VII. **INVESTIGATION OF SECONDARY NEUTRONS PRODUCED BY PROTON AND HELIUM ION BEAMS IN WATER**  
PEHLİVANLI A., BÖLÜKDEMİR M. H.  
XIV. International Conference on Nuclear Structure Properties, NSP2021, Konya, Turkey, 02 June 2021
- VIII. **MODELLING OF MARINELLI BEAKER SOURCE IN HPGe DETECTORS BY MONTE CARLO SIMULATION**  
Aksoy G., BÖLÜKDEMİR M. H.  
TURKISH PHYSICAL SOCIETY 37TH INTERNATIONAL PHYSICS CONGRESS, Bodrum, Turkey, 01 September 2021
- IX. **MODELING OF A HPGe DETECTOR USING PHITS FOR THE CALCULATION OF FULL ENERGY PEAK EFFICIENCIES**  
UYAR E., BÖLÜKDEMİR M. H.  
5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT2019), Amasya, Turkey, 02 May 2019
- X. **Determination of secondary neutrons produced by 100 MeV energy protons in water.**  
PEHLİVANLI A., BÖLÜKDEMİR M. H.  
TESNAT 2018, Antalya, Turkey, 20 April 2018
- XI. **Calculation specific heat capacity of Uranium Nitride nuclear fuel**  
ESER E., Duyuran B., KOÇ H., BÖLÜKDEMİR M. H.  
TESNAT-2018, 20 - 22 April 2018
- XII. **Determination of the full energy peak efficiency of HPGe detector using Monte Carlo simulation**  
UYAR E., BÖLÜKDEMİR M. H., ESER E.  
TESNAT-2018, 20 - 22 April 2018
- XIII. **A Compact RF Power Coupler Design for the SANAEM RFQ Accelerator**  
Cicek E., BÖLÜKDEMİR M. H., Kilic I., Yasatekin B., Alacakir A.  
34th International Physics Congress (IPS) of the Turkish-Physical-Society (TPS), Konacik, Turkey, 5 - 09 September 2018, vol.2042
- XIV. **Investigations of thermophysical properties of nuclear fuels (Oxide and Nitride) using Einstein-Debye approximation.**  
ESER E., KOÇ H., BÖLÜKDEMİR M. H.  
X. International Workshop on Nuclear Structure Properties (NSP2017), 20 - 22 September 2017
- XV. **Physics of plasma focus device for nuclear fusion studies**  
BÖLÜKDEMİR M. H., ESER E.  
NSP2017-10. International workshop on nuclear structure properties, Karabük, Turkey, 20 - 22 September 2017
- XVI. **Küçük ölçekli nükleer füzyon reaktörleri: IEC**  
BÖLÜKDEMİR M. H.  
Adım Fizik Günleri VI, Balıkesir, Turkey, 19 - 21 June 2017
- XVII. **Calculation of Neutron Cross Section for DD Reaction in IEC Fusion Reactor**  
Bölükdemir A. S., BÖLÜKDEMİR M. H., TANIR A. G.  
TESNAT 2017: 3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 - 12 May 2017
- XVIII. **The distribution of ionizing radiation in the area surrounding the target mass using OSL**  
TANIR A. G., Yedek H., BÖLÜKDEMİR M. H., KOÇ K.  
TESNAT 2017: 3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 - 12 May 2017
- XIX. **OSL kinetic using AOSL approximation**  
TANIR A. G., Aksoy G., KOÇ K., BÖLÜKDEMİR M. H.  
TESNAT 2017: 3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, 10 - 12 May 2017
- XX. **The Situation of Inertial Electrostatic Confinement Fusion Reactor in Fusion Studies**  
BÖLÜKDEMİR M. H.  
IX. INTERNATIONAL WORKSHOP ON NUCLEAR STRUCTURE PROPERTIES, 1 - 03 September 2016, pp.38
- XXI. **Analytical Evaluation of the Coulomb Potential for Spherical Nuclei**

- ESER E., KOÇ H., BÖLÜKDEMİR M. H.  
IX. INTERNATIONAL WORKSHOP ON NUCLEAR STRUCTURE PROPERTIES, 1 - 03 September 2016
- XXII. **An Analysis of Dose Distributions for Some Biomaterials and Solid Water Phantom**  
BÖLÜKDEMİR M. H., Ayan S., ESER E.  
IX. INTERNATIONAL WORKSHOP ON NUCLEAR STRUCTURE PROPERTIES, 1 - 03 September 2016, pp.77
- XXIII. **Comparison of the Bragg Curves from Liquid Water for Protons**  
TANIR A. G., küşneci e. n., KOÇ K., BÖLÜKDEMİR M. H.  
IX. INTERNATIONAL WORKSHOP ON NUCLEAR STRUCTURE PROPERTIES, 1 - 03 September 2016
- XXIV. **The Study on the Osl Kinetics from Human Blood Sample**  
TANIR A. G., aksoy g., KOÇ K., BÖLÜKDEMİR M. H.  
IX. INTERNATIONAL WORKSHOP ON NUCLEAR STRUCTURE PROPERTIES, 1 - 03 September 2016, pp.32
- XXV. **THE EFFECTS OF TITANIUM ALLOY AND STAINLESS STEEL BIOMATERIALS ON DOSE DISTRIBUTION IN RADIOTHERAPY**  
Ayan S., BÖLÜKDEMİR M. H., Fatih Çağlar K.  
9th International Physics Conference of the Balkan Physical Union, 24 - 27 August 2015
- XXVI. **Equivalent dose determination using components of IRSL decay curves**  
Tanir G., Boeluekdemir M. H.  
6TH International Conference of the Balkan Physical Union, İstanbul, Turkey, 22 August 2006 - 26 August 2007, vol.899, pp.528
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TANIR A. G., BÖLÜKDEMİR M. H., ÇATLI DİNÇ S., TEL E.  
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- XXVIII. **NaCl Samples for Optical Luminescence Dosimetry**  
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Tfd-23 Fizik Kongresi, 13 - 16 September 2005

## Supported Projects

Bölükdemir M. H., Çiçek E., Project Supported by Higher Education Institutions, 352.2 MHz Frekansında Salınan bir Hızlandırıcı Kovuğu için Bağdaştırıcı Tasarımı ve Analizi, 2018 - 2019

BÖLÜKDEMİR M. H., Project Supported by Higher Education Institutions, Nükleer Füzyon Yapı Materyali Olarak Kullanılan Bazı Çekirdeklerin Nükleer Reaksiyonlarının Bozunmuş Born Dalga Yaklaşımı ile İncelenmesi, 2010 - 2013  
Tanır A. G., Tel E., Bölükdemir M. H., Aktı N., TUBITAK Project, OSL 9010 Sayma Sisteminin Modifikasyonu ve Alkali Halojenlerin OSL Karakteristiklerinin İncelenmesi, 2006 - 2007

## Metrics

Publication: 79

Citation (WoS): 243

Citation (Scopus): 258

H-Index (WoS): 9

H-Index (Scopus): 9

## Awards

Güneş Tanır A., Bölükdemir M. H., Koç K., TEÇEP 2013 Kayda Değer Eser Ödülü (Mansiyon) , Türkiye Bilimler Akademisi, June 2014



## **Non Academic Experience**

Gaziosmanpaşa Üniversitesi  
Amasya Özel İpekyolu Koleji İÖÖ