

## Curriculum Vitae (CV)

### Assoc. Prof. Dr. Huseyin Ozan TEKIN



1. **Name and Surname** : Huseyin Ozan Tekin
2. **Date of Birth** : 02/01/1987
3. **Title** : Assoc. Prof. Dr.
4. **Degree** : Ph. D.
5. **Employer** : University of Sharjah, United Arab Emirates (<https://www.sharjah.ac.ae>)
6. **E-mail:** : [htekin@sharjah.ac.ae](mailto:htekin@sharjah.ac.ae)



[https://www.researchgate.net/profile/Huseyin\\_Ozan\\_Tekin](https://www.researchgate.net/profile/Huseyin_Ozan_Tekin)



<https://scholar.google.com.tr/citations?user=IygRDNQAAAAJ&hl=tr>



<https://www.scopus.com/authid/detail.uri?authorId=56971130700>



<https://www.mendeley.com/profiles/hseyin-ozan-tekini/>

Education	Field	University	Year
BSc.	Physics	Suleyman Demirel University	2009
MSc.	Nuclear Physics	Suleyman Demirel University	2011
PhD.	Nuclear Physics	Suleyman Demirel University	2014

### **5. Academic Titles**

- 5.1. Lecturer : 20/06/2009 - 05 / 01 / 2015 (SDU- [sdu.edu.tr](http://sdu.edu.tr) / IAU- [aydin.edu.tr](http://aydin.edu.tr)) - **Turkey**
- 5.2. Assist. Prof. Dr. : 05/01/2015 - 13 / 06 / 2018 (Uskudar University- [uskudar.edu.tr](http://uskudar.edu.tr)) - **Turkey**
- 5.3. Assoc. Prof. Dr. : 13 /06/2018 - 19 / 01 / 2020 (Uskudar University- [uskudar.edu.tr](http://uskudar.edu.tr)) - **Turkey**
- 5.4. Assoc. Prof. Dr. : 19 /01/2020 - **Present** (University of Sharjah-[www.sharjah.ac.ae](http://www.sharjah.ac.ae)) - **UAE**

### **6. Administrative Experiences**

- 6.1. Istanbul Aydin University - College of Health Services / Vice Dean  
(May 2013- January 2015)
- 6.2. Uskudar University Medical Imaging Department / Head of Department  
(January 2015 - January 2020)
- 6.3. UskudarUniversity Medical Radiation Research and Application Center (USMERA) / Founder & Head  
(April 2015-January 2020)
- 6.4. Uskudar University College of Health Services / Vice Dean  
(March 2015 – January 2019)
- 6.5. Uskudar University College of Health Services / Dean  
(January 2019- January 2020)

## 7. Awards

- **Prof. Dr. Şevket ERK Young Scientist Award** - “*Turkish Physical Society (TFD)*” - 2018

Link: <http://tfd.com.tr/oduller/sevket-erk-genc-bilim-insani-odulu/>

- **Announced as one of the “Most influencer scientists” by Stanford University, USA** - “*Published: 08-10-2020 | Version 2 | doi: [10.17632/btchxktzyw.2](https://doi.org/10.17632/btchxktzyw.2) Published by: Jeroen Baas, Kevin Boyack, John Ioannidis*”

Link: <https://data.mendeley.com/datasets/btchxktzyw/2>

## 8. Professional Titles

- International Society of Radiographers & Radiological Technologists (**ISRRT**)  
European Regional Director (2018-Present)
- Turkish Medical Radiotechnology Association (TMRT-DER) Chairman of Science and Education Council (2015-Present)
- T.R. Ministry of Health SKS Department Radiology Trainer of Quality Standards
- Associate Member of World Radiology Technologists and Radiotechnologists Association (International Society of Radiographers and Radiological Technologist ISRRT)
- T.R. Ministry of Development Turkish Accelerator Center Development Group Member
- Affidea Radiology - Radiation Protection Counselor in Radiology Units
- Science Fund of the Republic of Serbia Official Project Advisor and Peer Reviewer  
(<http://fondzanauku.gov.rs/>)

## 9. Scientific Interests

Computed Tomography (CT), Medical Physics, Monte Carlo Simulations, Radiation, Nuclear Physics, Medical Imaging, Radiological Protection, Nanomaterials, MCNP code, Medical Imaging Physics, Radiotherapy, Radiation Protection, Nano-Structure Materials

## **10. Education**

### **1. Bachelor (BSc.)**

Bachelor: Süleyman Demirel University (Physics) 2005-2009 / **TURKEY**

Bachelor: Siauliai University (Physics) (2007-2008) / **LITHUANIA**

### **2. Master (MSc.)**

Master: Süleyman Demirel University (Physics) 2009-2011/ **TURKEY**

Master (Internship): Siauliai University June-September, 2010 **LITHUANIA**

Master (Thesis Studies): Helmholtz Zentrum Dresden Rossendorf (HZDR)

Particle Accelerator Center- Dresden / **GERMANY**

Master Thesis Title: Determination and Design of the Parameters for The Bremsstrahlung Photon Beam Dump

### **3. Ph.D**

Ph.D: Süleyman Demirel University (Physics) 2011-2014/ **TURKEY**

Thesis Title: Determining the Detector Parameters for the TARLA Bremsstrahlung Photon Facility

Thesis Studies: Helmholtz Zentrum Dresden Rossendorf (HZDR) Particle Accelerator Center Dresden / **GERMANY**

## **Languages**

1. Turkish (Native Language)
2. English (Advanced)
3. Lithuanian (Intermediate)
4. Russian (Entry Level)

## **Projects and Research Group Experiences**

### **1. Turkish Accelerator Center (DPT-YUUP Project)**

(THM) [<http://thm.ankara.edu.tr>]

Researcher -Member TARLA (Turkish Accelerator and Radiation Laboratory at ANKARA)

Bremsstrahlung Technical Committee Member (2009 – Present)

### **2. TUBITAK – Learn the basic sciences, do not afraid of science**

Project Manager (Assistant) 2012 Isparta / Turkey

### **3. Süleyman Demirel University**

2012 Science Project Competition 2012 and Spring Festival

Project Manager, Project Name: Smart Glasses (4. Best Project – 1000 TL prize)

**4. TUBITAK – Development and Fabrication of Concretes Doped Ultra Intense Mineral Alternative to Radiation Shielding (Government Project)**

Role: Head of the Project (2018-Present)

Budget: **72,250 TL**

Project Name: Development and Fabrication of Concretes Doped Ultra Intense Mineral Alternative to Radiation Shielding (Government Project)

**5. University of Sharjah - Research Group**

Role: Group Member

2019- Present

Research Group name: Biomedical and Molecular Imaging. Sharjah / United Arab Emirates

**6. University of Sharjah – Seed Project**

Role: Project Leader (Main PI)

2020- Present

Budget: **40,000 AED**

**Project Name:** Monte Carlo simulations for development and material optimization of new generation shields for medical and industrial radiation facilities. Sharjah / United Arab Emirates

#### **Professional Experience on Monte Carlo Codes and Computing Programs**

1. MCNP (Los Alamos – USA) – A General Purpose Monte Carlo Code
2. MCNP-X (Los Alamos – USA) – A General Purpose Monte Carlo Code
3. GEANT4 (Particle Simulation Code-CERN) – A General Purpose Monte Carlo Code
4. EGSnrc (Particle Simulation Code – NR Canada) – A General Purpose Monte Carlo Code
5. WinXray – A simulation toolkit for X Rays – A General Purpose Monte Carlo Code
6. MCXray Lite x64 – A Simulation Toolkit for X-Rays – A General Purpose Monte Carlo Code
7. 3ds MAX (3D Design Program) – Design and Simulation
8. Linux-Based Operating Systems - OS
9. MS Office Programs

#### **International Scientific participations as Invited Speaker / Invited Lecturer**

1. Turkish Accelerator Center Project

**Invited Speaker:** Hüseyin Ozan TEKIN

Fotonas Physics Summer School 1-15, August,2010 Siauliai/ **LITHUANIA**

2. Particle Accelerators and Detectors Summer School

Turkish Physical Society -Ağustos 2009 Bodrum / **TURKEY**

**Invited Speaker:** Hüseyin Ozan TEKIN

3. Mini Workshop on Electron-Electron Bremsstrahlung

HZDR (Helmholtz Zentrum Dresden Rossendorf)

**Invited Speaker:** Hüseyin Ozan TEKIN January 16-20, 2011 Dresden/ **GERMANY**

4. Turkish Accelerator Center – International Machine Adviser Committee Meeting

**Invited Speaker:** Hüseyin Ozan TEKIN August 2010 Bodrum / **TURKEY**

6. Justification and Authorization of planned Medical Exposures. The radiographer's/RT's involvement and contribution. A project aiming to develop a module through collaboration between ISRRT and Radiography Schools for student radiographers/RTs on how to fulfill their role on the Justification and Authorization of planned medical exposures on the principle of the radiation protection of the patient. **ISRRT.**

**Stakeholder:** Assoc. Prof. Dr. Huseyin Ozan TEKIN (2016- ...)

7. Application Aspects of Monte Carlo Simulation in Radiotherapy and Radiology

**Invited Lecturer:** Between 13-17 March 2017 (Totally 8 Hours Lecture by Erasmus+ Staff Mobility)

Medical Physics Department for MSc and PhD. Students.

Kaunas University of Technology (KTU) - **LITHUANIA**

8. Certificate on Radiation Dose Management in Computed Tomography

International Atomic Energy Agency – Certificate 15 April 2017

**Lecturer:** Assoc. Prof. Dr. Huseyin Ozan TEKIN

9. 36<sup>th</sup> International Physics Congress (TPS-36) – Turkish Physical Society (TPS)

1-5 September 2020, Bodrum Mugla, **TURKEY**

**Invited Speaker:** Assoc. Prof. Dr. Huseyin Ozan TEKIN

<http://tfd36.org/Urunlerimiz/35/Invited-Speakers.html?Lang=EN>

10. First Regional Virtual Symposium on Physics Advances 2020 – University of Bahrain  
28-29 June 2020, **BAHRAIN.**

**Invited Speaker:** Assoc. Prof. Dr. Huseyin Ozan TEKIN

An overview to Monte Carlo simulations for radiation transport and nuclear shielding studies in nuclear and medical physics: MCNPX experience

**11.** PHCSS Radiology Unit Breast Cancer Awareness Webinar -2020. 17-24 October 2020.  
Radiology Unit Primary Health Care Services Sector, Dubai Health Authority, Dubai, **UAE**

**Invited Speaker:** Assoc. Prof. Dr. Huseyin Ozan TEKIN

Importance of radiation shielding in mammography: recent studies and promising approaches.

**12.** University of Sharjah, World Radiography Day Organization -2020. 21 November 2020.

University of Sharjah, Sharjah, **UAE**

**Invited Speaker:** Assoc. Prof. Dr. Huseyin Ozan TEKIN

A journey from traditional to advanced diagnostic radiology: BIG DATA.

**13.** Istanbul University, 11th Physics Workshop. 25-26 February 2021.

Istanbul University, Istanbul, **TURKEY**

**Invited Speaker:** Assoc. Prof. Dr. Huseyin Ozan TEKIN

Computer Based Physics Researches and Simulation Methods: Experiences on Nuclear Radiation Attenuation.

**14.** Shirish Madhukarrao Chaudhari College, Jalgaon 9<sup>th</sup> February 2021

One Day International Seminar on the Occasion of Research Lab Inauguration Ceremony.

Jalgaon, **INDIA**

**Invited Speaker:** Assoc. Prof. Dr. Huseyin Ozan TEKIN

Monte Carlo Simulations in Radiation and Medical Studies: MCNP Experience

**15.** Izmir University of Economics, 19th November 2020. Izmir, **TURKEY**

Current Status of Medical Imaging Techniques Programs and International Perspective

**Invited Speaker:** Assoc. Prof. Dr. Huseyin Ozan TEKIN

### **International Research Activities**

**1.** Various Hydrogen Experiment and Studies

Siauliai University – **LITHUANIA**

Supervisor: Assoc. Prof. Dr. Alfredas LANKAUSKAS (Dean of Natural Sciences)

**2.** Various Research on LINAC Accelerators

HZDR (Helmholtz Zentrum Dresden Rossendorf)

Dresden- **GERMANY**

Supervisor: Dr. Andreas WAGNER (Head of Nuclear Division)

## **Referee and Editorial Board Membership in International Indexed Journals**

1. Journal of Communication and Computer (JCC / ISSN: 1548-7709)
2. International Journal of Nuclear and Radiation Science and Technology (IJNURASAT)
3. The Online Journal of Science and Technology (TOJSAT)
4. Iranian Journal of Medical Physics (IJMP) (Member of Refree Committee) From:2016-Present)  
[http://ijmp.mums.ac.ir/reviewer?\\_action=info](http://ijmp.mums.ac.ir/reviewer?_action=info)
5. Progress in Nuclear Energy – Elsevier (2016-Present)
6. Nuclear Science and Techniques – Springer (2016- Present)
7. Radiochemica ACTA – De Gruyter (2018-Present)
8. Nuclear Engineering and Technology – Elsevier (2017-Present)
9. The Journal of Neurobehavioral Sciences (*J Neuro Behav Sci*) – **Co-Editor** (2019- Present)  
<https://www.jnbs.org/page/editorial-board>
10. Ceramics – MDPI - Special Issue "Nuclear Radiation Shielding Glasses and Glass-Ceramics"  
Guest Editor -Huseyin Ozan Tekin (2020)  
[https://www.mdpi.com/journal/ceramics/special\\_issues/glasses\\_glass\\_ceramics](https://www.mdpi.com/journal/ceramics/special_issues/glasses_glass_ceramics)

## **Membership of Institutions**

1. Turkish Linux Users Association (LKD) [www.lkd.org.tr](http://www.lkd.org.tr)
2. Turkish Medical Radiotechnology Association (TMRT-DER) Member of Scientific Advisory Committee (2016-Present) [www.tmrtder.org.tr](http://www.tmrtder.org.tr)
3. International Society of Radiographers and Radiological Technologists.  
Associated Member (2016-Present) [www.isrrt.org](http://www.isrrt.org)
4. European Society of Radiology (ESR) <https://www.myesr.org/>

## **Taking Part in Scientific Activities Such as Congress, Symposium and Workshops**

1. 11th National Radiotechnology Congress and Training Seminars 23-26 April 2015 WOW Topkapi Palace Hotel - Kundu / Antalya-TURKEY(*Scientific Committee Member*)
2. Monte Carlo Applications of Nuclear and Particle Physics Summer School, 10-12 May 2013, Bitlis Eren University, Bitlis-TURKEY(*Organising Committee Member*)
3. International Symposium on Optical and Eye Health 12-13-14 October 2012, Süleyman Demirel University, Senirkent MYO, Isparta-TURKEY(*Organising Committee Member*)
4. Computational Methods in Medical Physics Summer School (MEFHEY2013) 24-28 June 2013, Istanbul Aydin University, Istanbul – TURKEY(*Organising Committee Member*)
5. LUMIDOZ7 – Luminescent Dosimetry Congress 10-12 September 2013 – Isparta TURKEY (*Organising Committee Member*)
6. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2014) 25-29 October 2014. Kemer-Antalya TURKEY (*Organising Committee Member*)
7. Medical Imaging and Radiation Safety Symposium. 13 April 2014 Istanbul Aydin University, Florya Campus - Istanbul/ TURKEY(*Organising Committee Member*)
8. Medical imaging and Radiotherapy Days Event. 7 April 2015. Uskudar University. SHMYO Çarşı CampusUskudar Istanbul/ TURKEY(*Chairman of the Organising Committee*)
9. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2015) 14-19 October 2015. Kemer-Antalya TURKEY(*Organising Committee Member*)
10. Medical imaging and Radiotherapy Days Event. Medical Radiation - 7 April 2015. Uskudar University SHMYO Çarşı Campus Uskudar Istanbul / TURKEY(*Chairman of the Organising Committee – Trainer*)
11. Monte Carlo Simulation Methods in Medical and Nuclear Applications(MENUS-MC) 1st Level Training. UskudarUniversity / ÜSMERA 5-6 September 2015. Uskudar / iSTANBUL (*Chairman of the Organising Committee – Educator*)



- 12.** International Science and Technology Conference "ISTEC". 13-15 July 2016. Vienna / AUSTRIA  
*(Member of Editorial Board)*
- 13.** Radiation Protection in Diagnostic Radiology and QA/QC TARAD 2015 (19- 20 December 2015)  
*Chairman of the Organising Committee)*
- 14.** International Conference on Computational and Experimental Science and Engineering.  
(ICCESEN2016) 19-24 October 2016. Kemer-Antalya TURKEY(*Organising Committee Member*)
- 15.** Basic Radiotherapy and Radiotherapy Physics Education Workshop(TRRF2016) 23-24 April  
2016. Uskudar University Çarşı Campus. Uskudar / IstanbulTURKEY(*Chairman of the Organising  
Committee*)
- 16.** 12th Radiotechnology Congress and Training Seminars with InternationalParticipation of  
TMRTDER (Turkish Association of Medical Radiotechnology. Papilion Zeugma Hotel Belek Antalya  
Turkey. April 27-30 2017 ([2017.tmrtder.org.tr/en/](http://2017.tmrtder.org.tr/en/))(*Member of Scientific Committee*)
- 17.** 12th Radiotechnology Congress and Training Seminars with InternationalParticipation of TMRT-  
DER (Turkish Association of Medical Radiotechnology. Papilion Zeugma Hotel Belek Antalya  
Turkey. April 27-30 2017 ([2017.tmrtder.org.tr/en/](http://2017.tmrtder.org.tr/en/))(*Chair of Scientific Publication Committee*)
- 18.** International Conference on Computational and Experimental Science and Engineering.  
(ICCESEN2016) 4-8 October 2017. Side-Antalya TURKEY (*Organising Committee Member*)
- 19.** 13th Radiotechnology Congress and Training Seminars with InternationalParticipation of TMRT-  
DER (Turkish Association of Medical Radiotechnology. Kaya Artemis Hotel – Cyprus / Turkey. April  
23-26 2018 ([2018.tmrtder.org.tr](http://2018.tmrtder.org.tr)) (*Chair of Scientific Publication Committee*)
- 20.** 14th Radiotechnology Congress and Training Seminars with International Participation of TMRT-  
DER (Turkish Association of Medical Radiotechnology. Papilion Zeugma Hotel Belek Antalya  
Turkey. 21-24 April 2019. Antalya / Turkey (*Chair of Scientific Publication Committee*)
- 21.** Basics of Monte Carlo Method and Nuclear Applications. Istanbul University. Faculty of Science.  
Department of Physics. 1 st of November 2018. Istanbul / Turkey.

## **Participation as invited speaker or panelist in conference, seminar, open interview session**

1. Geant4 Physics Simulation Software. Free Software and Linux Days, 2013, 5-6 April 2013, Istanbul Bilgi University Santral Campus Istanbul TURKEY
2. Geant4 Simulation Programs and Applications. Computational Methods in Medical Physics Summer School (MEFHEY2013) 24-28 June 2013, Istanbul Aydin University, Istanbul – TURKEY
3. The term of Ethic – Istanbul SILMO Education Fair. 26-29 December 2013. CNR Expo Center Istanbul / TURKEY
4. Effects of Radiation on Human Body and Protection Ways – Büyükçekmece Municipality World Health Day Activities. 12 April 2015. Büyükçekmece Belediyesi Atatürk Kültür Merkezi Suna Pekuysal Salonu. Istanbul / TURKEY
5. Principles of Monte Carlo Simulation– Introduction to MCNP Code, Monte Carlo Simulation Techniques in Medical and Nuclear Applications (MENUS-MC). 1st Level Training. Uskudar University / ÜSMERA 5-6 September 2015. Uskudar / ISTANBUL / TURKEY
6. Nuclear Structure and Basic Interactions - Basic Radiotherapy and Radiotherapy Physics Education Workshop (TRRF2016) 23-24 April 2016. Uskudar University Çarşı Campus. Uskudar / TURKEY
7. Term of Medical Radiation and Sources – 4 th Bioengineering and Genetics Days. T.C. uskudar University 6 th of May 2016. Istanbul TURKEY
8. Radiation Safety and Quality Standarts. Turkish Republic, Ministry of Health, 1st Health Quality Audit Education Program. Trainer: Assist. Prof. Dr. Huseyin Ozan Tekin. 10-15 October 2016, Hilton Inn Hotel. Ankara / TURKEY
9. Turkish Society of Medical Radiotechnology / Aims and Scope.  
Speaker on Behalf of Society: Assist. Prof. Dr. Huseyin Ozan TEKIN 16 October 2016 Seoul / SOUTH KOREA
10. Radiation Safety and Quality Standarts. Turkish Republic, Ministry of Health, 2nd Health Quality Audit Education Program. Trainer: Assist. Prof. Dr. Huseyin Ozan Tekin. 13 December 2016, Arkas Hotel. Antalya / TURKEY

11. Medical Radiation and Basis of Radiation Protection – 7 th Bioengineering and Genetics Days.  
T.C. Uskudar University 3th of May 2019. Istanbul TURKEY

## **SCIENTIFIC PUBLICATIONS**

### **Scientific Books**

1. Basic Principles and Techniques of Magnetic Resonance Imaging (MRI)

Editors : **Dr. Hüseyin Ozan Tekin** & Murat Dündar

Authors: **Dr. Hüseyin Ozan Tekin**, Öğr. Gör. Murat Dündar, Barış Cavlı, Ali Salar, Dr. Mustafa Cantay Gök

Published: September – 2017 Publisher: Kongre Kitabevi

2. X-Ray Imaging Techniques: All Methods / Basic Proinciples / Advanced Applications

Editor: **Dr. Hüseyin Ozan Tekin**

Section Editors: Murat Dundar, Ali Salar, Baris Cavli, Ceren Ozturk

Published: September – 2018 Publisher: Kongre Kitabevi

3. Smart Nanoconcretes and Cement-Based Materials – ELSEVIER. Copyright © 2020 Elsevier Inc.

All rights reserved. Publisher: Matthew Deans Acquisition Editor: Simon Holt. Paperback **ISBN:**

**9780128178546**. **Chapter 19:** Radiation protection characteristics of nano-concretes against photon

and neutron beams. Asghar Mesbahi, Elham Mansouri, Amir Ghasemi Jangjoo and **Huseyin Ozan**

**Tekin**

### **A- Publications in SCI – SCIexp Indexed SCOPUS Journals**

**A.1.** I.Akkurt, K.Günoğlu, **H.O. Tekin**, Z.N. Demirci, G. Yegin, N. Demir. Estimation of Bremsstrahlung photon fulence from Aluminum by ANN. *Iranian J. of Rad. Res* – 2011 10 (1) pp. 63-65.

**A.2.** I.Akkurt, **H.O. Tekin**, A. Mesbahi. Calculation of Detection Efficiency for the Gamma Detector using MCNPX. *Acta Physica Polonica A* (2015) Vol:128 – No:2B. pp 332-334  
[doi: 10.12693/APhysPolA.128.B-332](https://doi.org/10.12693/APhysPolA.128.B-332)

**A.3.** U. Kara, **H.O. Tekin**, A.Calik, I. Akkurt. Performance of Boron-Carbide as Radiation Shielding. *Acta Physica Polonica A* (2015) Vol:128 – No:2B. pp 335-336. [doi: 10.12693/APhysPolA.128.B-335](https://doi.org/10.12693/APhysPolA.128.B-335)

**A.4.** U.Kara, **H.O. Tekin**, I.Akkurt. Radiation Protection in PET Room. *Acta Physica Polonica A* (2015) Vol:128 – No:2B. pp 375-377. [doi:10.12693/APhysPolA.128.B-375](https://doi.org/10.12693/APhysPolA.128.B-375)

**A.5.** **H.O. Tekin**. MCNP-X Monte Carlo Code Application for Mass Attenuation Coefficients of Concrete at Different Energies by Modeling 3×3 inch NaI(Tl) Detector and Comparison with XCOM and Monte Carlo Data. *Science and Technology of Nuclear Installations* Volume 2016, Article ID 6547318, 7 pages. <http://dx.doi.org/10.1155/2016/6547318>

**A.6.** K. Yilacioglu, **H.O. Tekin**, S. Cetiner. Nitrogen Source, an Important Determinant of Fatty Acid Accumulation and Profile in *Scenedesmus obliquus*. *Acta Physica Polonica A*. Vol 129 (2016) No.1. [doi:10.12693/APhysPolA.129.428](https://doi.org/10.12693/APhysPolA.129.428)

**A.7.** U.Kara, **H.O. Tekin**, I.Akkurt. Computed Tomography Routine Examinations and Related Risk of Cancer. *Acta Physica Polonica A*. Vol 129 (2016) No.1. [doi:10.12693/APhysPolA.129.409](https://doi.org/10.12693/APhysPolA.129.409)

**A.8.** **H.O. Tekin**, V.P. Singh, T. Manici. Effects of micro-sized and nano-sized WO<sub>3</sub> on mass attenuation coefficients of concrete by using MCNPX code. *Applied Radiation and Isotopes*. Vol 121 (2017) pp. 122-125. <http://dx.doi.org/10.1016/j.apradiso.2016.12.040>

**A.9.** **H.O. Tekin**, T. Manici. Simulations of mass attenuation coefficients for shielding materials using the MCNP-X code. *Nuclear Science and Techniques*. NUCL SCI TECH (2017) 28:95. [doi:10.1007/s41365-017-0253-4](https://doi.org/10.1007/s41365-017-0253-4)

**A.10.** A. Mesbahi, N. Rasouli, M. Mohammedzadeh, B. Nasiri Motlagh, **H.O. Tekin**. Comparison of radiobiological models for radiation therapy plans of prostate cancer: three dimensional conformal versus intensity modulated radiation therapy. *Journal of Biomedical Physics&Engineering*. <https://doi.org/10.22086/jbpe.v0i0.655>

**A.11.** G. Lakshminarayana, S.O. Baki, Kawa M. Kaky, M.I. Sayyed, **H.O. Tekin**, A. Lira, I.V. Kityk, M.A. Mahdi. Investigation of structural, thermal properties and shielding parameters for multicomponent borate glasses for gamma and neutron radiation shielding applications. *Journal of Non-Crystalline Solids* (2017). <http://dx.doi.org/10.1016/j.jnoncrysol.2017.06.001>

**A.12.** M.G. Dong, E El-Mallawany, M.I. Sayyed, **H.O. Tekin**. Shielding properties of 80TeO<sub>2</sub>–5TiO<sub>2</sub>–(15–x) WO<sub>3</sub>–xAnOm glasses using WinXCom and MCNP5 code. *Radiation Physics and Chemistry* 141 (2017) 172–178. <http://dx.doi.org/10.1016/j.radphyschem.2017.07.006>

- A.13.** M.I. Sayyed, M.Y. Al-Zaatreh, M.G. Dong, M.H.M. Zaid, K.A. Matori, **H.O. Tekin**. A comprehensive study of the energy absorption and exposure buildup factors of different bricks for gamma-rays shielding. *Results in Physics* 7 (2017) 2528-2533. <https://doi.org/10.1016/j.rinp.2017.07.028>
- A.14.** **H. O. Tekin**, M. I. Sayyed, E. E. Altunsoy, T. Manici. Shielding Properties and Effects of WO<sub>3</sub> and PbO on Mass Attenuation Coefficients by using MCNPX Code. *Digest Journal of nanomaterials and Biostructures*. Vol. 12 No.3 July-September 2017. pp 861-867.
- A.15.** **H.O. Tekin**, U. Kara, T.Manici, E.E. Altunsoy, T.T. Erguzel. A Prediction Study on Bremsstrahlung Photon Flux of Tungsten as a Radiological Anode Material by using MCNPX and ANN Modeling. *Acta Physica Polonica A*. Vol. 132 (2017) No:3. [doi: 10.12693/APhysPolA.132.433](https://doi.org/10.12693/APhysPolA.132.433)
- A.16.** **H.O. Tekin**, E.E. Altunsoy, T.Manici, B. Yilmaz. Quantitative Characteristic X-Ray Analysis for Different Compound Samples by Using Monte Carlo Method. *Acta Physica Polonica A*. Vol. 132 (2017) No:3. [doi:10.12693/APhysPolA.132.439](https://doi.org/10.12693/APhysPolA.132.439)
- A.17.** **H.O. Tekin**, T.Manici, E.E. Altunsoy, K. Yilacioglu, B. Yilmaz. An Artificial Neural Network-Based Estimation of Bremsstrahlung Photon Flux Calculated by MCNPX. *Acta Physica Polonica A*. Vol. 132 (2017) No:3-II. [doi:10.12693/APhysPolA.132.967](https://doi.org/10.12693/APhysPolA.132.967)
- A.18.** U. Kara, A. Kaya, **H.O. Tekin**, I. Akkurt. Adult Patient Radiation Doses with Multislice Computed Tomography Exam: MSCT Standard Protocols. *Acta Physica Polonica A*. Vol. 132 (2017) No:3-II. [doi:10.12693/APhysPolA.132.1126](https://doi.org/10.12693/APhysPolA.132.1126)
- A.19.** T.T. Erguzel, **H.O. Tekin**, T. Manici, E.E. Altunsoy, N. Tarhan. Comparison of Multiple Linear Regression Analysis and Artificial Neural Network Approaches in the Estimation of Monte Carlo Mean Glandular Dose Calculations of Mammography. *Digest Journal of nanomaterials and Biostructures*. Vol. 13 No.1 January-March 2018.
- A.20.** **H.O.Tekin**, M. I. Sayyed, Tugba Manici, Elif Ebru Altunsoy. Photon shielding characterizations of bismuth modified borate-silicate-tellurite glasses using MCNPX Monte Carlo code. *Materials Chemistry and Physics*. (2018). <https://doi.org/10.1016/j.matchemphys.2018.02.009>
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**A.170.** Gokhan Kilic, Erkan Ilik, Shams A.M. Issa, Bashar Issa, M.S. Al-Buriahi, U. Gokhan Issever, Hesham M.H. Zakaly, **H.O. Tekin**. Ytterbium (III) oxide reinforced novel TeO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub>-V<sub>2</sub>O<sub>5</sub> glass system: synthesis and optical, structural, physical and thermal properties. *Ceramics International* Available online 19 March 2021. <https://doi.org/10.1016/j.ceramint.2021.03.175>

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## **B - Publications in International Indexed Journals ( PubMed, EBSCO, DOAJ, etc., )**

**B.1. H.O. Tekin**, U. Kara, A. Mesbahi. An Overview of Monte Carlo (MC) Simulation Method and Basic Principles in Medical Radiation and Radiation Detectors. *The Online Journal of Science and Technology*. Volume (6) 2016. Issue 3.

**B.2. H.O. Tekin**, Iskender Akkurt. Position Optimisation of Ge Detectors in Nuclear Resonance Fluorescence (NRF) Experiment by Using Monte Carlo Method. *The Online Journal of Science and Technology* - April 2016 Volume 6.

**B.3. H.O. Tekin** and Umit Kara. Monte Carlo Simulation for Distance and Absorbed Dose Calculations in a PET-CT Facility by using MCNP-X. *Journal of Communication and Computer* 13 (2016) 32-35. [doi:10.17265/1548-7709/2016.01.005](https://doi.org/10.17265/1548-7709/2016.01.005)

**B.4. H.O. Tekin** et. al., Investigation of Backscattered Dose in a Computerized Tomography (CT) Facility during Abdominal CT scan by Considering Clinical Measurements and Application of Monte Carlo Method. *Journal of Health Science* 4 (2016). [doi: 10.17265/2328-7136/2016.02.001](https://doi.org/10.17265/2328-7136/2016.02.001)

**B.5. H.O. Tekin**, Vishwanath P. Singh, Umit Kara, Tugba Manici, Elif Ebru Altinsoy. investigation of Nanoparticle Effect on Radiation Shielding Property Using Monte Carlo Method. *CBU Journal of Science*, Vol 12, No 2 (2016). <http://dx.doi.org/10.18466/cbujos.15586>

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**B.10. H.O. Tekin**, V.P. Singh, E.E. Altunsoy, T. Manici, M.I. Sayyed. Mass Attenuation Coefficients of Human Body Organs using MCNPX Monte Carlo Code. *Iranian Journal of Medical Physics*. Available Online: 04 June 2017. [doi:10.22038/ijmp.2017.23478.1230](https://doi.org/10.22038/ijmp.2017.23478.1230)

**B.11.** U. Kara, **H.O. Tekin**. Estimation of Absorbed Dose Distribution in Different Organs during the CT scan: Monte Carlo Study. *Austin J Radiol* - Volume 4. Issue 1 – 2017.

**B.12.** **H.O. Tekin**, V.P. Singh, T. Manici, E.E. Altunsoy. Validation of MCNPX with Experimental Results of Mass Attenuation Coefficients for Cement, Gypsum and Mixture. *Journal of Radiation Protection and Research*. 42 (3): 1-4, (2017). doi: <https://doi.org/10.14407/jrpr.2017.42.3.154>

**B.13.** Viswanath P. Singh, **H.O. Tekin**, Nagappa M. Badiger, Tugba Manici, Elif Ebru Altunsoy. Effect of Heat Treatment on Radiation Shielding Properties of Concretes. *Journal of Radiation Protection and Research* 2018;43 (1) :20-28. <https://doi.org/10.14407/jrpr.2018.43.1.20>

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**B.15.** **H. O. Tekin** et al. An Investigation on Radiation Protection and Shielding Properties of 16 Slice Computed Tomography (CT) Facilities. *IJCESEN* 4-2 (2018) 37-40. doi: [10.22399/ijcesen.408231](https://doi.org/10.22399/ijcesen.408231)

**B.16.** **H. O. Tekin**, M.I. Sayyed, Ozge Kilicoglu, Mesut Karahan, Turker Tekin Erguze, Umit Kara and Muhsin Konuk. Calculation of Gamma-ray Attenuation Properties of Some Antioxidants using Monte Carlo Simulation Method. *Biomedical Physics & Engineering Express*. <https://doi.org/10.1088/2057-1976/aad297>

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**B.20.** M. Barati, **H.O. Tekin**, N. Blazquez, R. Griskevicius, E. Kostopoulou, B. Cavli, M. Vaišvilaite, K. Katsari, C. Paraskevopoulou. An investigation on Lead Contamination of Radiation Shielding Equipment in four countries and 69 centers. *EuroSafe Imaging 2020* / ESI-12483. <https://dx.doi.org/10.26044/esi2020/ESI-12483>

**B.21.** **H.O. Tekin**, V.P. Singh. Determination of Gamma-Ray Shielding Parameters for Concretes and Dosimeters Using MCNPX. *J. Nucl. Phys. Mat. Sci. Rad. A*. Vol. 8, No. 1 (2020), pp.73–79. [10.15415/jnp.2020.81009](https://doi.org/10.15415/jnp.2020.81009)

### **C- Abstracts / Papers Published in International Congresses and Symposiums**

**C1.** **H.O. Tekin**, I. Akkurt et al. Variation of Radiation Level in a Houses in Isparta. Turkish Physical Association Congress (TFD26) 24-27 September 2009 Bodrum/TURKEY

**C2.** Iskender Akkurt and **H.O. Tekin** et al. Calculation Of Bremsstrahlung Yield for thin target. Turkish Physical Association Congress (TFD26) 24-27 September 2009 Bodrum/TURKEY

**C3.** Iskender Akkurt, **H.O. Tekin** et al. Production of High Energy Photon Beam at TAC. Turkish Physical Association Congress (TFD26)24-27 September 2009 Bodrum/TURKEY

**C4.** Mavi B., Akkurt I., Akyıldırım H., Günoğlu, K., **Tekin H.O.** Determination of Natural Radioactivity in Some Samples on the Eğirdir Seaside. IX. National Ecology and Environment Congress, 2009 Nevşehir University /TURKEY.

**C5.** Iskender AKKURT, **H. O. Tekin**. Bremsstahlung Test Area @ TARLA. ADIM Physics Days 2010 Afyonkarahisar/ TURKEY.

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**C12.** **H.O. Tekin**, I.Akkurt, R.Massarczyk. GEANT4: Simulation Code Used for Particle Accelerator. Turkish Physical Association Congress 6-9 September-2011 Bodrum- TURKEY.

**C13.** B.Mavi, K.Günoğlu, **H.O. Tekin**, I.AKKURT. Senirkent Üzümünde 40K Tayini. X.National Ecology and Environmental Congress.4-7 October 2011 Çanakkale/TURKEY.

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**C18.** Umit KARA, **H.O. TEKIN**, Adnan Calik and Iskender Akkurt. Performance of Boron-Carbide On Radiation Shielding. InternationalConference on Computational and Experimental Science and Engineering.(ICCESEN2014) 25-29 October 2014. Kemer-Antalya TURKEY.

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**C22.** **H.O. Tekin**, K. Yilancioglu, I. Akkurt. Estimation of Energy Spectrum from Co-60 and Cs-137 by using Artificial Neural Networks (ANN). International Conference on Computational and Experimental Science and Engineering. (ICCESEN2015) 14-19 October 2015. Kemer-Antalya TURKEY.

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**C24.** **H.O. Tekin**, Umit Kara, Ozlem Ozturk, Tugba Manici, Elif Ebru Altunsoy, Baris Cavli. Comparison Study of Clinical Measurements and Monte Carlo Method on Radiation Dose Rate Changes By Distance in Computerized Tomography (CT) Facility” Fourth International Conference on Radiation and Applications in Various Fields of Research May 23-27, 2016. Faculty of Electronic Engineering, Nis-SERBIA.

**C25.** **H. O. Tekin**, Umit Kara. Analyse of Filtering Material and Effect on X-Ray Features by Using Monte Carlo Method For Medical Imaging Applications. Fourth International Conference on Radiation and Applications in Various Fields of Research May 23-27, 2016. Faculty of Electronic Engineering, Nis-SERBIA.

**C26.** **H.O. Tekin**, Umit Kara, Tugba Manici, Ozlem Ozturk, Elif Ebru Altunsoy. An Investigation on Photon Beam Spectra by Considering Angular Variations and Depth Dose Characteristic for Mammography by Using MCNPX. Fourth International Conference on Radiation and Applications in Various Fields of Research May 23-27, 2016. Faculty of Electronic Engineering, Nis-SERBIA.

**C27.** Umit Kara, **H.O. Tekin**. Estimated Radiation Risks, Clinical Factors and Patient Dose in Mammography. Fourth International Conference on Radiation and Applications in Various Fields of Research May 23-27, 2016. Faculty of Electronic Engineering, Nis-SERBIA.

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**C29.** Umit Kara, **H.O. Tekin**, Mustafa Yildiz. Cardiac Nuclear Medicine Procedures and Radiation Effects. Fourth International Conference on Radiation and Applications in Various Fields of Research May 23-27, 2016. Faculty of Electronic Engineering, Nis-SERBIA.

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**C31.** A.Ozdemir, M.Findikli, R.Keskin, U.Kara, **H.O.Tekin**. A Study On General Effects Of Electromagnetic Fields Biologically. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY

**C32.** M. Findikli, R.Keskin, **H.O.Tekin**, U.Kara. An Acute Radiation Syndrome: (NVS) Neurovascular Syndrome. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY

**C33.** E.A.Kacar, A. Ozdemir, M. Findikli, S. Doner, **H.O. Tekin**, U.Kara. An İntigation On Basic Body Scans and Scan Parameters by Using Computerized Tomography (CT). Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY

**C34.** A. Özdemir, E.A.Kaçar, M.Findikli, S.Döner, **H.O. Tekin**. General Principles Of Pediatric Computerized Tomography (CT) Process And Imaging Protocols. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY

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**C36.** F.Düzyol, N.Yeyin, M.Demir, **H.O. Tekin**. The General Approach To Radiopharmaceuticals: Using in PET-CT And Scintigraphy. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY

**C37.** **H.O. Tekin**, Ö.Öztürk, E.E. Altunsoy, T. Manici, H.Sahin. A Monte Carlo Approach For Simulation Of Produced X-Ray Spectra By Electron Beam By Using Mcnp-X Code For Medical İmaginig Applications. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY

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**C41.** T. Manici, E.E. Altunsoy, **H.O. Tekin**. A Study on Absolute Efficiency Of 3x3 Inch NaI (Tl) Detectors: Monte Carlo Simulation by Using MCNP Code. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY

**C42.** T. Manici, E.E. Altunsoy, **H.O. Tekin**. An Introduction to Monte Carlo Modeling Techniques of 3x3 inch NaI (Tl) Detectors By Using MCNP-X Code. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY

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**C46.** **H.O. Tekin**. Comparison Of Backscattered Dose Measurements İn Computerized Tomography (CT) During Abdominal and Head Scan. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY

**C47.** **H.O. Tekin**, U. Kara, T. Manici, B. Cavli, C. Ekmekci, E.E. Altunsoy. Quantitative Change İn Computerized Tomography (CT) Facility Between The Patient Absorbed Dose And Backscattered Dose By Considering PNS And Phantom Scan. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2016) 19-24 October 2016. Kemer- Antalya TURKEY

**C48.** **H.O. Tekin**, U. Kara, T. Manici, K.Yilancioglu. A Prediction Study On Bremsstrahlung Photon Flux Of Tungsten (W) As A Radiological Anode Material By Using MCNP-X And Artificial Neural Network (ANN) Modeling. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2016) 19-24 October 2016. Kemer- Antalya TURKEY

**C49.** **H.O. Tekin**, E.E. Altunsoy. Quantitative Characteristic X-Ray Analysis for Different Brass Samples By Using Monte Carlo (MC) Method. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2016) 19-24 October 2016. Kemer- Antalya TURKEY

**C50.** U. Kara, **H.O. Tekin**, M.Yildiz, I. Akkurt. Clinical Nuclear Medicine Experiences With Tc 99m DMSA. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2016) 19-24 October 2016. Kemer- Antalya TURKEY

**C51.** U. Kara, **H.O. Tekin**, M.Yildiz, I. Akkurt. Nuclear Medicine Procedures And Radiation Effects in Tc99m Mag 3. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2016) 19-24 October 2016. Kemer- Antalya TURKEY

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**C53.** B. Cavli, **H.O. Tekin**, U.Kara. An Overview of Radiological Educational Activities in Turkey and Contributions of Turkish Society of Medical Radiotechnology. 19 th International Society of Radiographers and Radiological Technologists (ISRRT) World Congress. 20-22 October, 2016 SEOUL / S.KOREA

**C54.** **H.O. Tekin**, U. Kara, B. Cavli. Application of Monte Carlo Method for Radiological Studies and Basic Principles. 19 th International Society of Radiographers and Radiological Technologists (ISRRT) World Congress. 20-22 October, 2016 SEOUL / S.KOREA

**C55.** U. Kara, A. Kaya, **H.O. Tekin**. Adult Patient Radiation Doses with Multislice Computed Tomography Exam: MSCT Standard Protocols. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2016) 19-24 October 2016. Kemer- Antalya Turkey

**C56.** A.Kaya, U. Kara, M.Yildiz, **H.O. Tekin**. Adult Patient Radiation Doses With PET/CT Exam. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2016) 19-24 October 2016. Kemer- Antalya TURKEY

**C57.** U. Kara, G. Gocmen, **H.O. Tekin**. Pediatric Radiation Doses With Multislice Computed Tomography Exam: Monte Carlo Simulation. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2016) 19-24 October 2016. Kemer- Antalya TURKEY

**C58.** V.P. Singh, .M. Badiger, **H.O. Tekin**, U. Kara, H.R. Vega-Carrillo & M.A. Fernández Zenobio. Photon Absorption Of Calcium Phosphate Based Teeth Biomaterials In Diagnostic Radiology. XVII. International Symposium On Solid State Dosimetry. Santo Domingo, Dominican Republic. September 26th To 30th, 2017.

**C59.** **H.O. Tekin**, T.Manici, E.E. Altunsoy, T.T. Erguzel, B. Yilmaz, B.Cavli. Shielding Properties of Boron Carbide in Radiological Energy Range by Using Monte Carlo Method. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2017) 4-8 October 2017. Antalya TURKEY

**C60.** H.O. Tekin, V.P. Singh, İ. Akkurt. A Comparative Study On Shielding Properties Of Some Composite Materials By Mcnpx Code. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2017) 4-8 October 2017. Antalya TURKEY

**C61.** Erguzel T.T., H.O. Tekin. Principle Component Analysis For Dimensionality Reduction of Large Mass Spectrometry Imaging Data Sets. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2017) 4-8 October 2017. Antalya TURKEY

**C62.** B. Guclu, E.E. Altunsoy, T. Manici, H.O. Tekin. Investigation of humeral locking plate system effect on absorbed dose in breast tissue with different radiological energies by using MCNPX. CARS 2018 Computer Assisted Radiology and Surgery. Berlin, Germany, June 20 - 23, 2018

**C63.** T. Manici, H.O. Tekin, İ. Akkurt, K. Gunoglu. Investigation of influencing factors on absorbed dose in the breast using MCNPX Monte Carlo Code. 13th Radiotechnology Congress and Training Seminars with International Participation of TMRT-Der (Turkish Association of Medical Radiotechnology). 23-26 April 2018. Kaya Artemis Hotel – CYPRUS.

**C64.** E.E. Altunsoy, H.O. Tekin, K. Gunoglu, İ. Akkurt. Mass Attenuation Coefficients of Some Human Organs in Radiological Energy Ranges using MCNPX Monte Carlo Code. 13th Radiotechnology Congress and Training Seminars with International Participation of TMRT-Der (Turkish Association of Medical Radiotechnology). 23-26 April 2018. Kaya Artemis Hotel – CYPRUS.

**C65.** H.O. Tekin, E.E. Altunsoy, F.C. Ozturk, M.I. Sayyed. A Comparative Study on Attenuation Properties of Some Composite Shielding Materials using MCNPX Code. Turkish Physical Society 34th International Physics Congress. September 05 – 09, 2018. Bodrum, Mugla – TURKEY.

**C66.** H.O. Tekin, E.E. Altunsoy, F.C. Ozturk, M.I. Sayyed. Gamma-Ray Attenuation Properties of Boron Carbide in Radiological Energy Range using MCNPX Code. Turkish Physical Society 34th International Physics Congress. September 05 – 09, 2018. Bodrum, Mugla – TURKEY.

**C67.** B. Cavli, H.O. Tekin, R.B. Pekar, S. Simsek, K. Katsari, A. Papachristodoulou, C. Parakevopoulou. Continuous education on radiation protection in PET/CT departments could lead to reduction of personnel radiation exposure. European Society of Radiology - European Congress of Radiology ESR2019, February 27 - March 3, 2019. Vienna, AUSTRIA.

**C68.** H.M. Karakas, B. Cavli, **H.O. Tekin**, R.B. Pekar, C. Ozturk, L. Demirci, Y. Bukte, K. Katsari. Computed tomography dose reference levels (DRLs) at various levels of hospitals in Istanbul: Secondary public, tertiary public, pediatric tertiary public, and university hospitals' experiences. European Society of Radiology - European Congress of Radiology ESR2019, February 27 - March 3, 2019. Vienna, AUSTRIA.

**C69.** H.M. Karakas, K. Katsari, R.B. Pekar, L. Demirci, C. Ozturk, F.E. Bahadir Ulger, A.N. Kahraman, **H.O. Tekin**, B. Cavli. How to become a high-performance dose excellence center: Current concepts and applications of modern dose management system in SBU Fatih Sultan Mehmet Training and Research Hospital. European Society of Radiology - European Congress of Radiology ESR2019, February 27 - March 3, 2019. Vienna, AUSTRIA.

**C70.** H.M. Karakas, B. Cavli, **H.O. Tekin**, R.B. Pekar, C. Ozturk, L. Demirci, U. Ozdamarlar, K. Katsari. Implementation of dose management system and evaluation of initial dose reference levels (DRLs) in a newly established Hospital: SBU Sehit Prof. Dr. İlhanVarank Sancaktepe Training and Research Hospital. European Society of Radiology - European Congress of Radiology ESR2019, February 27 - March 3, 2019. Vienna, AUSTRIA.

**C70.** Yusuf Cenk İltuş, Lidya Amon Susam, **H.O. Tekin**, Baki Akkuş, Gülfem Susoy Doğan, Fatma Çağla Öztürk. The Effect of MgO Change with ZnO on Photon Transmission Factor Using MCNP4C in B<sub>2</sub>O<sub>3</sub> Glass-Ceramic Systems. Turkish Physical Society 35th International Physics Congress, September 4-8 2019, Bodrum- **TURKEY**

**C71.** Hasipcan Aydın, Gülfem Süsoy Doğan, **H.O. Tekin**, Examination of Effective Atomic Number Change in S53P4 Bioactive Glass Systems Doped With Boron Oxide (B<sub>2</sub>O<sub>3</sub>), Turkish Physical Society 35th International Physics Congress, September 4-8 2019, Bodrum- **TURKEY**

**C72.** Yusuf Cenk İltuş, Lidya Amon Susam, **H.O. Tekin**, Baki Akkuş, Gülfem Susoy Doğan, Fatma Çağla Öztürk, Investigation of The Effect of Changing MgO-ZnO ratio In B<sub>2</sub>O<sub>3</sub> Glass-Ceramic Systems On Zeff Value, Turkish Physical Society 35th International Physics Congress, September 4-8 2019, Bodrum- **TURKEY**



**C73.** Hasipcan Aydın, Gülfem Süsoy Doğan, **H.O. Tekin**, The Calculation of the transmission Factor the S53P4 Bioactive Glass Systems, with the addition of Boron Oxide (B2O3) by using the MCNP-4C Code, Turkish Physical Society 35th International Physics Congress, September 4-8 2019, Bodrum- **TURKEY**

**C74.** A. Erol, G. S. Dogan, **H.O. Tekin**. Monte Carlo Prediction in Nuclear Physics, Turkish Physical Society 35th International Physics Congress, September 4-8 2019, Bodrum- **TURKEY**

**C75.** **H.O. Tekin**, M.M. Abuzaid, W. Elshami, Bashar Issa. Glass materials and their utilization for radiation shielding applications. First Regional Virtual Symposium on Physics Advances 2020 – University of Bahrain. 28-29 June 2020, **BAHRAIN**.

#### **D - Summary Texts Papers Published in National Congresses and Symposiums**

**D1.** **Hüseyin Ozan TEKİN**, I.Akkurt, N.Demir. EGSnrc simulations for Bremsstahlung Photons. VIII. Workshop of Turkish Accelerator Center Project 7–8 December 2009, Gazi University-ANKARA

**D2.** N. Demir, I. Akkurt **Hüseyin Ozan TEKİN**. Radiator Design works for Bremsstahlung facility at TAC VIII. Workshop of Turkish Accelerator Center Project 7–8 December 2009, Gazi University-ANKARA

**D3.** I.Akkurt, N.Demir, **Hüseyin Ozan TEKİN**. Main equipments and the overall assessment of Bremsstahlung Facility. VIII. Workshop of Turkish Accelerator Center Project 7–8 December 2009, Gazi University-ANKARA

**D4.** G. Yegin, I. Akkurt, M. Doğru, N. Demir, S. Şahin, **H.O. Tekin**, Z.N. Demirci. Simulation studies on Bremsstahlung Photon Beam. IX. Workshop of Turkish Accelerator Center Project 3-5 December 2010, ANKARA University, ANKARA

**D5.** I. Akkurt, G. Yegin, M. Doğru, N. Demir, S. Şahin, **H.O. Tekin**, Z.N. Demirci. Bremsstahlung facility at TAC: Main equipments. IX. Workshop of Turkish Accelerator Center Project 3-5 December 2010, ANKARA University, ANKARA

**D6.** N.Demir, I. Akkurt, G.Yegin, ,M. Dogru, S. Sahin, **H.O. Tekin**, Z.N. Demirci. Design studies of Collimator for TARLA Bremsstrahlung facility. IX. Workshop of Turkish Accelerator Center Project 3-5 December 2010, ANKARA University ANKARA

**D7.** **H.O. Tekin**, I. Akkurt, G.Yegin, M. Dogru, N.Demir S. Şahin, Z.N. Demirci. Photon Beam Dump design studies for Bremsstrahlung Facility at TARLA. IX. Workshop of Turkish Accelerator Center Project 3-5 December 2010, ANKARA University, ANKARA

**D8.** S. Şahin I. Akkurt, G.Yegin, ,M.Dogru, N.Demir, **H.O. Tekin**, Z.N. Demirci. Photon Beam Dump design studies for Bremsstrahlung Facility at TARLA. IX. Workshop of Turkish Accelerator Center Project 3-5 December 2010, ANKARA University, ANKARA

**D9.** **H. O. Tekin**. Final Design of Bremsstrahlung Photon Beam Dump. X.Workshop of Turkish Accelerator Center Project 9-11 December 2011, ANKARA University, ANKARA

**D10.** **H. O. Tekin**. TARLA Determination of Detector Parameters for Bremsstrahlung Test Area. XI. Workshop of Turkish Accelerator Center Project 30 November-2 December 2012, Ankara University, ANKARA

#### **E-Full Text Papers Published in National Congresses and Symposiums**

**E1.** H. Durmuş, **H.O. Tekin**, U. Kara. An Overview Of MgB<sub>2</sub> Superconductors For MRI Applications” 8th National Radiology Technicians Congress ve MR Physics Course, Bildiriler Kitabı. 15-18 May2014, Kemer-Antalya, TURKEY

**E2.** **H.O. Tekin**, U. Kara, H. Durmuş, I. Akkurt. Monte Carlo Simulation and Application Areas for Detector Design in Medical imaging area. 8th National Radiology Technicians Congress ve MR Physics Course, Bildiriler Kitabı. 15-18 May 2014, Kemer-Antalya, TURKEY

**E3.** U. Kara, **H.O. Tekin**, H. Durmuş, I.Akkurt. Current Problems of Medical Imaging Program and Solution Proposals. 8th National Radiology Technicians Congress ve MR Physics Course, Bildiriler Kitabı. 15-18 May 2014, Kemer-Antalya, TURKEY

**E4.** **Hüseyin Ozan Tekin** et.,al. Prediction of Photon Flux By using Artificial Neural Networks (Artificial Neural Networks). May-2011 IATS’2011 Elazig/Turkey

**E5. Hüseyin Ozan Tekin** et al., Bremsstrahlung Photon Production with Tantalum (Ta) Target for Different Thicknesses. 4 rd International Conference Radiation interaction with Material and its use in Technologies, 2012, May 14-17, Kaunas-LITHUANIA

**E6. Hüseyin Ozan Tekin** et al., A Photon Beam Dump Design for Turkish Accelerator Center Project Brems. Facility at TARLA. 4 rd International Conference Radiation interaction with Material and its Use in Technologies, 2012, May 14-17, Kaunas-LITHUANIA

**E7. Huseyin Ozan Tekin** et al., A Study on Radiation in Operating Room in Süleyman Demirel University. 4 rd International Conference Radiation interaction with Material and its Use in Technologies, 2012, May 14-17, Kaunas-LITHUANIA

**E8. H.O. Tekin**, Ü.Kara, A.Mesbahi. An Overview of Monte Carlo (MC) Simulation Method and Basic Principles in Medical Radiation and Radiation detectors. International Science and Technology Conference (ISTEC2015). September 2-4, 2015 St. Petersburg /RUSSIA

**E9. H.O. Tekin**, I. Akkurt. Position Optimisation of Ge Detectors in Nuclear Resonance Fluorescence (NRF) Experiment by Using Monte Carlo Method. International Science and Technology Conference (ISTEC2015), September 2-4, 2015 St. Petersburg /RUSSIA

**E10.** U. Kara, **H.O. Tekin**, I. Akkurt, A. Tongal. Monte Carlo Simulation Methods in Medical Imaging. International Science and Technology Conference (ISTEC2015), September 2-4, 2015 St. Petersburg /RUSSIA

**E11.** U. Kara, **H.O. Tekin**, A. Tongal. Education in Medical Imaging Industry and Solution Proposals for Main Problems. International Science and Technology Conference (ISTEC2015), September 2-4, 2015, St. Petersburg /RUSSIA

**E12. Huseyin Ozan Tekin**, Umit Kara, Ozlem Ozturk, Tugba Manici, Elif Ebru Altunsoy, Baris Cavli: Comparison Study Of Clinical Measurements And Monte Carlo Method On Radiation Dose Rate Changes By Distance in Computerized Tomography (Ct) Facility. Fourth International Conference on Radiation and Applications in Various Fields of Research May 23-27, 2016. Faculty of Electronic Engineering. Nis-SERBIA. Conference Proceedings Book. Vol.1 (2016) doi: [10.21175/RadProc.2016.32](https://doi.org/10.21175/RadProc.2016.32) ISSN 2466-4626 (Online)

**E13. Huseyin Ozan Tekin**, Umit Kara. Analyse of Filtering Material and Effect on X-Ray Features by using Monte Carlo Method For Medical Imaging Applications. Fourth International Conference on Radiation and Applications in Various Fields of Research May 23-27, 2016. Faculty of Electronic Engineering, Nis-SERBIA. Conference Proceedings Book. Vol.1 (2016) DOI [10.21175/RadProc.2016.31](https://doi.org/10.21175/RadProc.2016.31) ISSN 2466-4626 (Online)

**E14.** Umit Kara, **Huseyin Ozan Tekin**. Estimated Radiation Risks, Clinical Factors And Patient Dose in Mammography. Fourth International Conference on Radiation and Applications in Various Fields of Research May 23-27, 2016. Faculty of Electronic Engineering, Nis-SERBIA. Conference Proceedings Book. Vol.1 (2016) doi: [10.21175/RadProc.2016.46](https://doi.org/10.21175/RadProc.2016.46) ISSN 2466-4626 (Online)

#### **F-International and National Media Attends (TV Programs)**

**F1.** ÜLKE TV -Hayat Tercihtir (23.06.2013) - Speaker: Assist. Prof. Dr. Hüseyin Ozan TEKİN ([https://www.youtube.com/watch?v=bs9b9\\_8qPtQ](https://www.youtube.com/watch?v=bs9b9_8qPtQ))

**F2.** ÜLKE TV -Hayat Tercihtir (11.07.2016)- Speaker: Assist. Prof. Dr. Hüseyin Ozan TEKİN

**F3.** Üsküdar TV – Uskudar’a Gelirken (12.07.2016)- Speaker: Assist. Prof. Dr. Hüseyin Ozan TEKİN <https://www.youtube.com/watch?v=Rk7CirJ8nHk&feature=youtu.be>

**F4.** ÜLKE TV -Hayat Tercihtir (05.08.2018) Speaker: Assoc. Prof. Dr. Huseyin Ozan TEKİN <https://www.youtube.com/watch?v=xs6EKTm8aXU>

**F5.** ULKE TV – Artificial Network and Simulation Applications in Health - Bilimden Sagliga (14.09.2019) Speaker **Assoc. Prof. Dr. Huseyin Ozan TEKİN** / Assoc. Prof. Dr. Turker Tekin Erguzel. <https://www.youtube.com/watch?v=ZUoM3QCt2Nc&t=379s>

#### **G-Academic Experience**

**G1.** Lecturer – Süleyman Demirel University (June 2009- January 2013) (TOTAL:4 YEARS)  
Lectures – Math, Physics-i, Geometric Optic and Optic, Basic Computer Programming, Material information

**G2.** Researcher – Helmholtz Zentrum Dresden Rossendorf (HZDR) Year:2009

Attended: Various Particle Accelerator Experiments and Monte Carlo Workshops on GEANT4 code.

**G3.** Lecturer – İAU Vocational School of Health Services (February 2013 – 2015)( TOTAL:2 YEARS) Given Lectures: Medical İmaging Methods, Medical İmaging Physics, Radiation Protection, Radiobiology, Nuclear Medicin, İntroduction to Radiotherapy

**G.** Assist. Prof. Dr. – UskudarUniversity (January-2015- June 2018) (TOTAL:3.5 YEARS)

Given Lectures: Medical İmaging Methods, Medical İmaging Physics, Radiation Protection, Radiobiology, Nuclear Medicin, İntroduction to Radiotherapy

**G4.** Assoc. Prof. Dr. – UskudarUniversity (June-2018- January-2020) (TOTAL:2 YEARS)

Given Lectures: Medical İmaging Methods, Medical İmaging Physics, Radiation Protection, Radiobiology, Nuclear Medicin, İntroduction to Radiotherapy

**G5.** Assoc. Prof. Dr. – University of Sharjah, United Arab Emirates (UAE) (January-2020- Present)

### **Research Activities**

**1.** Uskudar University Medical Radiation Research and Application Center (ÜSMERA), Monte Carlo Simulation Techniques in Medical and Nuclear Applications (MENUS-MC), Establisher and Educator. UskudarUniversity (2015-present)

\*Level-1 (Beginning)

\*Level-2 (Intermediate)

\*Level-3 (Advanced)

\*Level-4 (ProUser)

\*Advanced applications and current approaches to diagnostic radiology Radiation Protection and Quality Assurance in Education TARAD 2015 (19- 20 December 2015)

\*Basic Radiotherapy and Radiotherapy Physics Education Workshop (TRRF2016). 23-24 April 2016. UskudarUniversity, CarsiCampus.

**2.** Scientific Advisor of Virtual Medical Coaching

<http://www.virtualmedicalcoaching.com/tr/contact-us/>

<http://www.virtualmedicalcoaching.com/>

(2016 – Present)

## **Master and Ph.D. Supervisions**

1. Elif Ebru Altinsoy – 2015 / 2017 (Second Supervisor)

Main Field: Radiological Protection, Radiation Protection, Medical Physics

**MSc.**

2. Tugba Manici – 2015 / 2017

Main Field: Radiological Protection, Radiation Protection, Medical Physics

**MSc.**

3. Diler Ozyurt – 2015 / 2017

Main Field: Investigation of psychological conditions of Radiology Technicians

**MSc.**

4. Sema Aritürk – 2015 / 2017

Main Field: Investigation of psychological conditions of Raditherapy Technicians

**MSc.**

5. Fatih Emre TUTARLI – 2017 / 2018

Main Field: Investigation of psychological conditions of Nuclear Medicine Technicians

**MSc.**

6. Yusuf Cenk Iltus – 2018 / Present

Main Field: Glasses and Radiation shielding properties

**MSc.**

7. Hasip Can Aydin - 2018 / Present

Main Field: Glasses and Radiation shielding properties

**MSc.**

8. Duygu Sen – 2018 / Present

Main Field: Monte Carlo applications on Medical Diagnostic

**Ph.D.**

## **Research projects under supervisory - BSc Level**

1) The Radiation Risk Assessment of Patients from most frequent Diagnostic Nuclear Medicine examinations: A Monte Carlo simulation study.

- Ashalul Hussein Mohamud
- Fatima Amin Younis A. B. Aloghani
- Waad Tageldin Abdalla Alhussein

University of Sharjah, College of Health Sciences, MDI Department.

BSc. Research Project.

Academic Year: 2019-2020

2) An Investigation on performance of Novel Shielding Materials against Ionizing Radiation in Nuclear Medicine Energy Range

- Dalal Mahmood Hasan Abdulla
- Zuhail Hashim Alziber Sideig
- Elaf Ali S Rabaa Albandari Ali M. Almatar

University of Sharjah, College of Health Sciences, MDI Department.

BSc. Research Project.

Academic Year: 2019-2020

3) Nuclear Radiation Shielding properties of Er<sup>+3</sup> and Sm<sup>+3</sup> Doped Zinc Borate Glasses: A focusing research on suitability for diagnostic radiology facilities

- Abdallah Jawdat Ata Zamil
- Dalia Mohammad Khoucheich
- Ghaida Bilal Lubna Al-Sammarraie

University of Sharjah, College of Health Sciences, MDI Department.

BSc. Research Project.

Academic Year: 2020-2021

#### 4) The use of Artificial Intelligence (AI) for radiation risk assessment in Abdominal CT scan

- Aya Sami Alhabashi
- Rumaisa Fareed Siddiqi
- Zahra Abbas Sumar

University of Sharjah, College of Health Sciences, MDI Department.

BSc. Research Project.

Academic Year: 2020-2021

#### 5) Artificial Intelligence (AI) techniques applied to dose reduction chest CT scan

- Maryam Ameer Eid
- Hamda Mubarak Al-Dukhan
- Fatemah Taleb Ali
- Nahid Mohammad

University of Sharjah, College of Health Sciences, MDI Department.

BSc. Research Project.

Academic Year: 2020-2021

#### **Some Selected Reviews in SCOPUS, SCI & SCI-exp and other indexed Journals**

1. “Dependence of the Depth-Dose Distributions and Ranges...”

Bosnian Journal of Basic Medical Sciences (BJBMS)

2. “FPGA implementation of Digital PLL-based Frequency...”

Journal of Communication and Computer (JCC)

3. “Transient Heat Analysis in a ....”

Journal of Communication and Computer (JCC)

4. “A study on the impact of residual setup errors on normal organs doses...”

Iranian Journal of Medical Physics (IJMP)



5. “Biological effects of background radiation...”  
Journal of Applied Physical Science International
6. “Semi-empirical determination of gamma-ray...”  
Progress in Nuclear Energy - Elsevier
7. “A novel neutron shielding composite...”  
Progress in Nuclear Energy – Elsevier
8. “Investigation of the Shielding Capability of Concrete Matrixed”  
Journal of Modern Physics
- 9.” Assessment of Occupational Exposure from External Radiation...”  
Iranian Journal of Medical Physics (IJMP)
10. “Local diagnostic reference levels for some common diagnostic X-ray....”  
Iranian Journal of Medical Physics (IJMP)
11. “Shielding properties of the ordinary concrete loaded with micro- and nanoparticles...”  
Applied Radiation and Isotopes – Elsevier
12. “Correlation Between Radon Concentrations and Distance From Fault Line And Meteorological Parameters”  
Arabian Journal of Geosciences – Springer
13. “Photon parameters for gamma-rays sensing properties of some oxide of lanthanides”  
Results in Physics – Elsevier
14. “Monte Carlo method for Gamma spectrometry based on GEANT4 toolkit: efficiency calibration of BE6530 detector”  
Journal of Environmental Radioactivity– Elsevier
15. “Preparation and characterization of iron ore imbedded silicone rubber materials for radiation protection”  
Nuclear Science and Techniques – Springer

**16.** “Determination of mass attenuation coefficient and mass energy absorption coefficient for some vitamins...”

Journal of Testing and Evaluation – ASTM International

**17.** “Introducing a Novel Coefficient on Mixed-nanoparticles...”

Journal of Physics and Chemistry of Solids - Elsevier

**18.** “Determination of Some Useful Radiation Interaction...”

Nuclear Engineering and Technology (NET) Journal – Elsevier

**19.** “Study on gamma ray shielding performance of concretes doped...”

Radiochemica ACTA – De Gruyter

**20.** “Investigation of radiation shielding...”

Radiochemica ACTA – De Gruyter

**21.** “Evaluation of Scale Thickness in .”

Applied Radiation and Isotopes – Elsevier

**22.** “Effects of collimator on imaging performance of Yttrium-90 Bremsstrahlung...”

Nuclear Engineering and Technology (NET) Journal – Elsevier

**23.** “ Radiation Shielding Parameters of BaO- Nb<sub>2</sub>O<sub>5</sub>...”

Materials Research Express – IOP Science

**24.** “Gamma radiation shielding properties of glasses...”

Radiochemica ACTA – De Gruyter

**25.** “Radiation protective characteristics of some selected...”

Radiochemica ACTA – De Gruyter

**26.** “Mass Attenuation Coefficient of Olive ...”

Nuclear Science and Techniques - Springer

**27.** “Radiation protective characteristics of some...”

Radiochemica ACTA – De Gruyter

- 28.** “Gamma radiation shielding properties of glasses”  
Radiochemica ACTA – De Gruyter
- 29.** “Evaluation of radioprotection properties of some selected...”  
Results in Physics – Elsevier
- 30.** “Evaluation of radiation absorption characteristics...”  
Results in Physics – Elsevier
- 31.** “The use of Isophthalic-Bismuth Polymer Composites as Radiation...”  
Materials Research Express – IOP Science
- 32.** “GEANT4 simulation of exit energy...”  
Radiation Physics and Chemistry – Elsevier
- 33.** “X-ray attenuation and mechanical properties of ....”  
Materials Research Express-IOP Science
- 34.** “Fabrication and characterization of Phosphotungstic Acid...”  
Journal of Alloys and Compounds – Elsevier
- 35.** “Investigating the Use of Glass of Cathode Ray...”  
Radiation Physics and Chemistry – Elsevier
- 36.** “Design and development of a web-based application for structural shielding...”  
Applied Computing and Informatics– Elsevier
- 37.** “Nuclear radiation shielding and mechanical properties of...”  
Radiation Effects and Defects in Solids- Taylor & Francis
- 38.** “Influence of Energy Transfer in the Adsorbed State...”  
Radiation Effects and Defects in Solids- Taylor & Francis
- 39.** “Effect of gamma irradiation on some spectroscopic properties...”  
Journal of Non-Crystalline Solids – Elsevier

- 40.** “Investigation on the nuclear...”  
Radiation Physics and Chemistry – Elsevier
- 41.** “Structural, physical, and radiation attenuation properties of boro-zinc...”  
Nuclear Engineering and Technology (NET) Journal – Elsevier
- 42.** “Influence of RE oxides (Eu<sup>3+</sup>, Sm<sup>3+</sup>, Nd<sup>3+</sup>) on...”  
Solid State Sciences – Elsevier
- 43.** “Preparation and Characterization of zinc, lanthanum..”  
Radiation Physics and Chemistry – Elsevier
- 44.** “Feasibility of Bi- Sn...”  
Radiation Physics and Chemistry – Elsevier
- 45.** “Radiation shielding properties using GEANT4...”  
Composites Part B: Engineering – Elsevier
- 46.** “Synthesis and gamma shielding properties of new...”  
Mater. Res. Express – IOP Science
- 47.** “Investigation of absorbed dose for heart, lungs...”  
Radiation Physics and Chemistry – Elsevier
- 48.** “A detailed procedure to calculate the gamma-ray...”  
Nuclear Science and Techniques – Springer
- 49.** “Assessment of nuclear shielding and alpha/proton mass...”  
Applied Physics A - Springer
- 50.** “Sm<sub>2</sub>O<sub>3</sub> effects on mass stopping power/projected range...”  
Applied Physics A - Springer
- 51.** “Bioactive glasses and the impact of Si<sub>3</sub>N<sub>4</sub>...”  
Ceramics International – Elsevier

- 52.** “Shielding Efficiency of Novel Tungsten...”  
Radiation Physics and Chemistry – Elsevier
- 53.** “Morphological and optical properties of thin film...”  
Optical Materials – Elsevier
- 54.** “Transmission and buildup factors of ...”  
Radiation Physics and Chemistry – Elsevier
- 55.** “Mechanical and radiation shielding properties of...”  
Radiation Physics and Chemistry – Elsevier
- 56.** “Fabrication, physical, optical characteristics and gamma-rays...”  
Physica B: Condensed Matter – Elsevier
- 57.** “Highly dense bismuth telluroborate glasses for...”  
Applied Physics A - Springer
- 58.** “Lead (II) Chloride effects on...”  
Journal of Physics and Chemistry of Solids - Elsevier
- 59.** “Impact of Lead (II) Iodide on Radiation Shielding Properties...”  
Applied Physics A - Springer
- 60.** “The impact of Gd<sub>2</sub>O<sub>3</sub> on nuclear safety...”  
Ceramics International - Elsevier
- 61.** “Mechanical features and radiation shielding properties...”  
Ceramics International - Elsevier
- 62.** “Synthesis of nano PbZrx...”  
Journal of Physics and Chemistry of Solids – Elsevier
- 63.** “Improvement of radiation shielding performance of...”  
Applied Physics A - Springer

- 64.** “Gamma ray shielding capacity and build up factors of CdO...”  
Journal of Non-Srystalline Solids-Elsevier
- 65.** “Reckoning of nuclear radiation attenuation capabilities...”  
Ceramics International-Elsevier
- 66.** “An Experimental Work on Radiation Protection Features...”  
Radiation Physics and Chemistry – Elsevier
- 67.** “Photon and electron attenuation parameters of phosphate...”  
Ceramics International-Elsevier
- 68.** “Experimental investigations on elastic and radiation shielding parameters..”  
Journal of Non-Srystalline Solids-Elsevier
- 69.** “Ionizing radiation attenuation competences of gallium germanate-tellurite glasses utilizing MCNP5...”  
Ceramics International-Elsevier
- 70.** “Nd<sup>3+</sup> ions doped TeO<sub>2</sub>-V<sub>2</sub>O<sub>5</sub>...”  
Journal of Materials Science: Materials in Electronics-Springer
- 71.** “Effect of Gamma-ray and Melt Flow Index of Polypropylene..”  
Radiation Physics and Chemistry – Elsevier
- 72.** “Gamma-rays shielding with ...”  
Radiation Physics and Chemistry – Elsevier
- 73.** “Barium-borotellurite...”  
Materials Chemistry and Physics – Elsevier
- 74.** “An Experimental Study on radiation ...”  
Journal of Physics and Chemistry of Solids-Elsevier
- 75.** “Structural, optical and nuclear radiation shielding properties of strontium...”  
Optical Materials - Elsevier

**76.** “Comparative study on nuclear shielding characteristics of BiBr<sub>3</sub> and PbSO<sub>4</sub>...”

Journal of Physics and Chemistry of Solids – Elsevier

**77.** “Optical features and nuclear radiation shielding efficiency of ZnO...”

Physica Scripta – IOP Science

**78.** “Analysis of Radiation Attenuation Properties for...”

Radiation Physics and Chemistry - Elsevier

**79.** “The impact of polymer additive for...”

Materials Chemistry and Physics – Elsevier

**80.** “Comparative study on nuclear shielding characteristics...”

Journal of Physics and Chemistry of Solids – Elsevier

**81.** “Impact of ytterbium/erbium co-doping in bismuth borophosphate glasses...”

VACUUM – Elsevier

**82.** “Gamma Radiation Shielding Characteristics of Various Spinel...”

Journal of Alloys and Compounds – Elsevier

**83.** “Nonlinear optical, optical...”

Optical Materials - Elsevier

**84.** “X-ray Shielding Parameters of Lanthanum...”

X-ray Spectrometry - Wiley

**85.** “Effect of Sb<sub>2</sub>O<sub>3</sub> addition on radiation attenuation...”

Journal of Inorganic and Organometallic Polymers and Materials - Springer

**86.** “Synthesis and Evaluation of Radiation Absorption...”

Applied Physics A - Springer

**87.** “Effects of BaO on crystallization, structure...”

Journal of Materials Science: Materials in Electronics - Springer

**88.** “The glass stability, optical properties and ligand...”

Optical Materials - Elsevier

**89.** “Neutron and photon shielding competences of aluminum...”

Radiation Physics and Chemistry – Elsevier

**90.** “Determination of Si(Li) detector efficiency...”

Physica Scripta – IOP Science

**91.** “Study of physical, optical properties and gamma radiation...”

Optical Materials - Elsevier

**92.** “SrO effect on photon/particle radiation protection...”

Journal of Physics and Chemistry of Solids – Elsevier

**93.** “Investigation of medieval archaeological ceramics using...”

Emerging Materials Research – ICE Virtual Library

**94.** “Monte Carlo simulation on shielding properties of neutron-gamma from  $^{252}\text{Cf}$ ...”

Radiation Physics and Chemistry – Elsevier

**95.** “Ceramic Tiles Doped with Lead...”

Radiation Physics and Chemistry – Elsevier

**96.** “Role of  $\text{Ga}_2\text{O}_3$  addition on the radiation...”

Journal of Physics and Chemistry of Solids – Elsevier

**97.** “UV-visible, EPR spectra, and gamma transmission studies on  $\text{CaF}_2$ ...”

Optical Materials - Elsevier

**98.** “Mixed alkaline earth of sodium borosilicate glasses: Preparation,...”

Optical Materials - Elsevier

**99.** “Production of micro-structured  $\text{BaZrO}_3$ ...”

Journal of Physics and Chemistry of Solids – Elsevier



100. “Effect of Ag<sub>2</sub>O/V<sub>2</sub>O<sub>5</sub> substitution on the radiation shielding ability...”

Physica Scripta – IOP Science

101. “Optical, mechanical properties of TeO<sub>2</sub>-CdO-PbO-B<sub>2</sub>O<sub>3</sub> glass systems ...”

European Physical Journal Plus – Elsevier

102. “On Y<sub>2</sub>O<sub>3</sub> · Li<sub>2</sub>O · Al<sub>2</sub>O<sub>3</sub> · B<sub>2</sub>O<sub>3</sub> glasses: Synthesis, ...”

Journal of Materials Science: Materials in Electronics – Springer

103. “Mechanical properties, linear optical, and shielding ability...”

Journal of Physics and Chemistry of Solids-Elsevier

104. “An experimental and theoretical validation of the physical, structural...”

Journal of Materials Science: Materials in Electronics - Springer

105. “Impact of TiO<sub>2</sub> on...”

Journal of Alloys and Compounds-Elsevier

### ***Given Courses in last 10 years***

<b>Lecture Name</b>	<b>Department</b>	<b>University</b>
Nuclear Medicine	Medical Imaging Department	<i>University of Sharjah, UAE</i>
Introduction to Radiology	Medical Imaging Department	<i>University of Sharjah, UAE</i>
Research Project	Medical Imaging Department	<i>University of Sharjah, UAE</i>
Digital Imaging	Medical Imaging Department	<i>University of Sharjah, UAE</i>
Introduction to Research	Medical Imaging Department	<i>University of Sharjah, UAE</i>
Medical Imaging Physics	Medical Imaging Department	<i>Uskudar University, TR</i>
Medical Imaging Methods-I	Medical Imaging Department	<i>Uskudar University, TR</i>
Medical Imaging Methods-II	Medical Imaging Department	<i>Uskudar University, TR</i>
Nuclear Medicine	Medical Imaging Department	<i>Uskudar University, TR</i>
Basics of Radiotherapy	Radiotherapy Department	<i>Uskudar University, TR</i>
Radiobiology	Radiotherapy Department	<i>Uskudar University, TR</i>

Nuclear Physics	Engineering and Natural Sciences	<i>Uskudar University, TR</i>
Basics of Radiology	Odiology Department	<i>Uskudar University, TR</i>
Radiation Safety and Protection	Medical imaging Department	<i>Uskudar University, TR</i>
Radiation Protection	Medical imaging Department	<i>Istanbul Aydin University, TR</i>
Physics I – II	ComputerEngineering Department.	<i>Suleyman Demirel University, TR</i>
Math I – II	Computer Engineering Department	<i>Suleyman Demirel University, TR</i>