

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



https://www.researchgate.net/profile/Huseyin_Ozan_Tekin



<https://scholar.google.com.tr/citations?user=IygRDNQAAAAAJ&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 / IAU- aydin.edu.tr) - **Turkey**
- 5.2. Assist. Prof. Dr. : 05/01/2015 - 13 / 06 / 2018 (Uskudar University- uskudar.edu.tr) - **Turkey**
- 5.3. Assoc. Prof. Dr. : 13 /06/2018 - 19 / 01 / 2020 (Uskudar University- uskudar.edu.tr) - **Turkey**
- 5.4. Assoc. Prof. Dr. : 19 /01/2020 - **Present** (University of Sharjah-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 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. 36th 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 9th 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.

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 Researches 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
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

Membership of Institutions

1. Turkish Linux Users Association (LKD) www.lkd.org.tr
2. Turkish Medical Radiotechnology Association (TMRT-DER) Member of Scientific Advisory Committee (2016-Present) www.tmrtder.org.tr
3. International Society of Radiographers and Radiological Technologists.
Associated Member (2016-Present) 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/)(*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/)(*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) (*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_3 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 $80TeO_2-5TiO_2-(15-x)WO_3-xAnOm$ 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*. Available Online: 19July 2017. <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 WO₃ 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>
- A.21.** **H.O. Tekin**, Mesut Karahan, Turker Tekin Erguzel, Tugba Manici, Muhsin Konuk. Radiation Shielding Parameters of Some Antioxidants using Monte Carlo Simulation. *Journal of Biological Physics*, 44(4), 579-590. <https://doi.org/10.1007/s10867-018-9507-6>

A.22. Shams A.M., Yasser B. Saddeek, **H.O. Tekin**, M.I.Sayyed, Khamies Saber Shaaban. Investigations of radiation shielding and elastic properties of PbO-SiO₂-B₂O₃- Na₂O glasses using Monte Carlo method. *Current Applied Physics* 18 (6) 717-727. <https://doi.org/10.1016/j.cap.2018.02.018>

A.23. **H.O. Tekin**, T.T. Erguzel, M.I. Sayyed, V.P. Singh, T. Manici, E.E. Altunsoy. An Investigation on Shielding Properties of Different Granite Samples using MCNPX code. *Digest Journal of nanomaterials and Biostructures*. Volume 13. Number-2. April-June 2018.

A.24. **H.O. Tekin**, Vishwanath P. Singh, Elif Ebru Altunsoy, Mesut Karahan, M.I. Sayyed. Gamma Shielding Properties Of Erbium Zinc Tellurite Glass System Using Monte Carlo Method. *Journal of Testing and Evaluation*. 48 (2), 2018. <https://doi.org/10.1520/JTE20180123>

A.25. M.I. Sayyed, M.G. Dong, **H.O. Tekin**, G. Lakshminarayana, M.A. Mahdi. Comparative investigations of gamma and neutron radiation shielding parameters for different borate and tellurite glass systems using WinXCom program and MCNPX code. *Materials Chemistry and Physics*. 215 (2018) 183-202. <https://doi.org/10.1016/j.matchemphys.2018.04.106>

A.26. **H.O. Tekin**, M.I. Sayyed, Shams A.M. Issa. Gamma radiation shielding properties of the hematite-serpentine concrete blended with WO₃ and Bi₂O₃ micro and nano particles using MCNPX code. *Radiation Physics and Chemistry* 150 (2018) 95–100. doi: <https://doi.org/10.1016/j.radphyschem.2018.05.002>

A.27. M.I. Sayyed, F. Akman, I.H. Gecibesler, **H.O. Tekin**. Measurement of mass attenuation coefficients, effective atomic numbers and electron densities for different parts of some medicinal aromatic plants in the low energy region. *Nuclear Science and Techniques*. 29(10):144. doi: [10.1007/s41365-018-0475-0](https://doi.org/10.1007/s41365-018-0475-0)

A.28. M.I. Sayyed, B.O. Elbashir, **H.O. Tekin**, E.E. Altunsoy, D.K. Gaikwad. Radiation shielding properties of pentateryary borate glasses using MCNPX code. *Journal of Physics and Chemistry of Solids* 121 (2018) 17–21. <https://doi.org/10.1016/j.jpics.2018.05.009>

A.29. V.P. Singh, Shams A. M. Issa, A.M.A. Mostafa, Mengge Dong, **H.O. Tekin**. Determining the gamma-ray parameters for BaO–ZnO–B₂O₃ glasses using MCNP5 code: A comparison study. *Radiation Effects and Defects in Solids*.(2018). doi:[10.1080/10420150.2018.1484743](https://doi.org/10.1080/10420150.2018.1484743).

A.30. H.O. Tekin, M.I. Sayyed, T.T. Erguzel, M. Karahan, O. Kilicoglu, A. Mesbahi, U. Kara. Investigation of Water Equivalence and Shielding Properties of Different Solid Phantoms using MCNPX Code. *Digest Journal of Nanomaterials and Biostructures*. Vol. 13, No. 2, April-June 2018, p.551-562.

A.31. M.I. Sayyed, Shams A. M. Issa, **H.O. Tekin**, Yasser B. Saddeek. Comparative study of gamma-ray shielding and elastic properties of BaO–Bi₂O₃–B₂O₃ and ZnO–Bi₂O₃–B₂O₃ glass systems. *Materials Chemistry and Physics*. Available Online: 19 June 2018. <https://doi.org/10.1016/j.matchemphys.2018.06.034>

A.32. M.I. Sayyed, **H.O. Tekin**, E.E. Altunsoy, Shamsan S. Obaid, M. Almatari. Radiation shielding study of tellurite tungsten glasses with different antimony oxide as transparent shielding materials using MCNPX code. *Journal of Non-Crystalline Solids* 498 (2018) 167–172. <https://doi.org/10.1016/j.jnoncrysol.2018.06.022>

A.33. Y. Elmahroug, M. Almatari, M.I. Sayyed, M.G. Dong, **H. O. Tekin**. Investigation of radiation shielding properties for Bi₂O₃ - V₂O₅ - TeO₂ glass system using MCNP5 code. *Journal of Non-Crystalline Solids* 499 (2018) 32–40. <https://doi.org/10.1016/j.jnoncrysol.2018.07.008>

A.34. Shamsan S. Obaid, M. I. Sayyed, D. K. Gaikwad, **H. O. Tekin**, Y. Elmahroug, P. P. Pawar. Photon attenuation coefficients of different rock samples using MCNPX, Geant4 simulation codes and experimental results: A comparison study. *Radiation Effects and Defects in Solids*. 173 (2018) 11-12. <https://doi.org/10.1080/10420150.2018.1505890>

A.35. A. Kumar, S.P. Singh, Y. Elmahroug, U. Kara, **H. O. Tekin** and M.I. Sayyed. Gamma ray shielding studies on 26.66 B₂O₃ – 16GeO₂ – 4Bi₂O₃ – (53.33 – x) PbO – xPbF₂ glass system using MCNPX, Geant4 and XCOM. *Materials Research Express*. 5 (2018) 095203. <https://doi.org/10.1088/2053-1591/aad821>

A.36. A. Kumar, R. Kaur, M.G. Dong. M. I. Sayyed, **H.O. Tekin**. Radiation interaction parameters of dosimetric importance for some commonly used compensators in IMRT using Monte Carlo Simulation Code. *Journal of Radiological Protection*, (2018). Accepted Manuscript online 16 August 2018. <https://doi.org/10.1088/1361-6498/aadac6>

A.37. M.I. Sayyed, **H.O. Tekin**, O. Kilicoglu, O. Agar, M. H. M. Zaid. Shielding features of concrete types containing sepiolite mineral: Comprehensive study on experimental, XCOM and MCNPX results. *Results in Physics*, 11 (2018) 40-45. <https://doi.org/10.1016/j.rinp.2018.08.029>

- A.38.** M.I. Sayyed, Y. S. Rammah, A. S. Abouhaswa, **H.O. Tekin**, B. O. Elbashir. ZnO-B₂O₃-PbO glasses: Synthesis and radiation shielding characterization. *Physica B: Physics of Condensed Matter*. Volume 548 (2018) 20-26. <https://doi.org/10.1016/j.physb.2018.08.024>
- A.39.** Y.S. Rammah, M.I. Sayyed, A.S. Abohaswa, **H.O. Tekin**. FTIR, electronic polarizability and shielding parameters of B₂O₃ glasses doped with SnO₂. *Applied Physics A* (2018) 124:650. <https://doi.org/10.1007/s00339-018-2069-4>
- A.40.** F. Akman, M.I. Sayyed, M.R. Kacal, **H.O. Tekin**. Investigation of photon shielding performances of some selected alloys by experimental data, theoretical and MCNPX code in the energy range of 81 keV-1333 keV. *Journal of Alloys and Compounds*. Volume 772, 25 January 2019, Pages 516-524. <https://doi.org/10.1016/j.jallcom.2018.09.177>
- A.41.** Shams A.M.Issa, **H.O. Tekin**, Reda Elsaman, Ozge Kilicoglu, Yasser B. Saddeek, M.I. Sayyed. Radiation shielding and mechanical properties of Al₂O₃-Na₂O-B₂O₃-Bi₂O₃ glasses using MCNPX Monte Carlo code. *Materials Chemistry and Physics* 223 (2019) 209-219. <https://doi.org/10.1016/j.matchemphys.2018.10.064>
- A.42.** H. M. Gomaa, M.I. Sayyed, **H.O. Tekin**, G. Lakshminarayana, A.H. EL-Dosokey. Correlate the structural changes to gamma radiation shielding performance evaluation for some calcium bismuth-borate glasses containing Nb₂O₅. *Physica B: Condensed Matter* 567 (2019) 109-112. <https://doi.org/10.1016/j.physb.2018.11.011>
- A.43.** Rammah, Y.S., Sayyed, M.I., Ali, A.A, **H.O. Tekin**, R. El-Mallawany. Optical properties and gamma-shielding features of bismuth borate glasses. *Applied Physics A* (2018) 124: 832. <https://doi.org/10.1007/s00339-018-2252-7>.
- A.44.** O. Agar, Z.Y. Khattari, M.I. Sayyed, **H.O. Tekin**, S.Al-Omari, M.Maghrabi, M.H.M. Zaid, I.V. Kityk. Evaluation of the shielding parameters of alkaline earth based phosphate glasses using MCNPX code. *Results in Physics* 12 (2019) 101-106 <https://doi.org/10.1016/j.rinp.2018.11.054>
- A.45.** Osman Agar, **H. O. Tekin**, M.I. Sayyed, Mehmet E. Korkmaz, Ozgur Culfa, Can Ertugay. Experimental investigation of photon attenuation behaviors for concretes including natural perlite mineral. *Results in Physics* 12 (2019) 237-243. <https://doi.org/10.1016/j.rinp.2018.11.053>

- A.46.** W. Marlitan, P. Venkateswara Rao, R.Klement, D.Galusek, M.I. Sayyed, **H.O. Tekin**, P. SyamPrasad, N.Veeraiah. Spectroscopic and thermal analysis of lead-free multipurpose radiation shielding glasses. *Ceramics International*. Available Online 1 December 2018. <https://doi.org/10.1016/j.ceramint.2018.11.231>
- A.47.** O. Agar, M.I. Sayyed, **H.O. Tekin**, Kawa M. Kaky, S. O. Baki, I. Kityk. An Investigation on Shielding Properties of BaO, MoO₃ and P₂O₅ based glasses using MCNPX code. *Results in Physics*. Available Online 4 December 2018. <https://doi.org/10.10/j.rinp.2018.12.003>
- A.48.** Shams A.M.Issa Yasser B.Saddeek M.I. Sayyed, **H.O. Tekin**, Ozge Kilicoglu. Radiation shielding features using MCNPX code and mechanical properties of the PbO-Na₂O-B₂O₃-CaO-Al₂O₃-SiO₂ glass systems. *Composites Part B: Engineering* 167 (2019) 231-240. <https://doi.org/10.1016/j.compositesb.2018.12.029>
- A.49.** Kawa M. Kaky, M. I. Sayyed, Farah Laariedh, Alyaa H. Abdalsalam, **H.O. Tekin**, S. O. Baki. Structural, optical and radiation shielding properties of zinc boro-tellurite alumina glasses. *Applied Physics A*. (2019) 125:32. <https://doi.org/10.1007/s00339-018-2329-3>
- A.50.** O. Agar, M.I. Sayyed, F. Akman, **H.O. Tekin**, M.R. Kacal. An extensive investigation on gamma ray shielding features of Pd/Ag-based alloys. *Nuclear Engineering and Technology*. Available Online 21 December 2018. <https://doi.org/10.1016/j.net.2018.12.014>
- A.51.** W. Marlitan, P. Venkateswara Rao, **H.O. Tekin**, M.I. Sayyed, R. Klement, D. Galusek, G. Lakshminarayana, P. Syam Prasad, N.Veeraiah. Analysis of Red mud doped Bi₂O₃-B₂O₃-BaO glasses for application as glass solder in radiation shield repair using MCNPX simulation. *Ceramics International*. Available Online 9 January 2019. <https://doi.org/10.1016/j.ceramint.2019.01.058>
- A.52.** **H.O. Tekin**, E.E. Altunsoy, E. Kavaz, M.I. Sayyed, O. Agar, M. Kamislioglu. Photon and neutron shielding performance of boron phosphate glasses for diagnostic radiology facilities. *Results in Physics*. 12 (2019) 1457-1464. <https://doi.org/10.1016/j.rinp.2019.01.060>
- A.53.** M. Almater, O. Agar, E.E. Altunsoy, O. Kilicoglu, M.I. Sayyed, **H.O. Tekin**. Photon and neutron shielding characteristics of samarium doped lead alumino borate glasses containing barium, lithium and zinc oxides determined at medical diagnostic energies. *Results in Physics*. 12 (2019) 2123-2128. <https://doi.org/10.1016/j.rinp.2019.01.094>

- A.54. H.O. Tekin**, E. Kavaz, E.E. Altunsoy, O. Kilicoglu, O. Agar, T.T. Erguzel, M.I. Sayyed. An extensive investigation on gamma-ray and neutron attenuation parameters of cobalt oxide and nickel oxide substituted bioactive glasses. *Ceramics International* 45 (2019) 9934-9949 <https://doi.org/10.1016/j.ceramint.2019.02.036>
- A.55. H.O. Tekin**, O. Kilicoglu, E. Kavaz, E.E. Altunsoy, M. Almatari, O. Agar, M.I. Sayyed. The investigation of gamma-ray and neutron shielding parameters of Na₂O-CaO-P₂O₅-SiO₂ bioactive glasses using MCNPX code. *Results in Physics* 12 (2019) 1797-1804. <https://doi.org/10.1016/j.rinp.2019.02.017>
- A.56.** M.G. Dong, O. Agar, **H.O. Tekin**, O.Kilicoglu, Kawa M. Kaky, M.I. Sayyed. A Comparative study on gamma photon shielding features of various germanate glass systems. *Composites Part B: Engineering* 165 (2019) 636-647. <https://doi.org/10.1016/j.compositesb.2019.02.022>
- A.57.** Y. S. Rammah, A. S. Abouhaswa, M. I. Sayyed, **H.O. Tekin**, R. El-Mallawany. Structural, UV and shielding properties of ZBPC glasses. *Journal of Non-Crystalline Solids*. Available Online: 21 February 2019. <https://doi.org/10.1016/j.jnoncrysol.2018.12.013>
- A.58.** Shams A.M. Issa, **H.O. Tekin**, Yasser B. Saddeek, M.I. Sayyed, Mahmoud Ahmad. Effect of Bi₂O₃ content on mechanical and nuclear radiation shielding properties of Bi₂O₃-MoO₃-B₂O₃-SiO₂-Na₂O-Fe₂O₃ glass system. *Results in Physics*. 13 (2019) 102165. <https://doi.org/10.1016/j.rinp.2019.102165>
- A.59.** Amandeep Sharma, M.I. Sayyed, O. Agar, **H.O. Tekin**. Simulation of shielding parameters for TeO₂-WO₃-GeO₂ glasses using FLUKA code. *Results in Physics*. Available Online 15 March 2019. <https://doi.org/10.1016/j.rinp.2019.102199>
- A.60.** E. Kavaz, N. Ekinici, **H.O. Tekin**, M.I. Sayyed, B. Aygun, U. Perisanoglu. Estimation of gamma radiation shielding qualification of newly developed glasses by using WinXCOM and MCNPX code. *Progress in Nuclear Energy*, 115 (2019) 12-20. <https://doi.org/10.1016/j.pnucene.2019.03.029>
- A.61.** Farah Laariedh, M.I. Sayyed, Ashok Kumar, **H.O. Tekin**, Ramandeep Kaur, T-B Badeche. Studies on the structural, optical and radiation shielding properties of (50-x) PbO-10WO₃-10 Na₂O - 10 MgO-(20+x)B₂O₃ glasses. *Journal of Non-Crystalline Solids*. Volume 513, 1 June 2019, Pages 159-166. <https://doi.org/10.1016/j.jnoncrysol.2019.03.007>

- A.62.** B. Guclu, E.E. Altunsoy, T. Manici and **H.O. Tekin**. Effect of Humeral Locking Plate System on Absorbed Energy in Breast Tissue with Different Radiological Energies Using MCNPX code. *Journal of Testing and Evaluation*. <https://doi.org/10.1520/JTE20180389>
- A.63.** O. Agar, E. Kavaz, E.E. Altunsoy, O. Kilicoglu, **H.O. Tekin**, M.I. Sayyed, T.T. Erguzel, Nevzat Tarhan. Er₂O₃ effects on photon and neutron shielding properties of TeO₂-Li₂O-ZnO-Nb₂O₅ glass system. *Results in Physics*. 13 (2019) 102277. <https://doi.org/10.1016/j.rinp.2019.102277>.
- A.64.** I.S. Mahmoud, Shams A.M. Issa, Yasser B. Saddek, **H.O. Tekin**, Ozge Kilicoglu, T. Alharbi, M.I. Sayyed, T.T. Erguzel, Reda Elsaman. Gamma, neutron shielding and mechanical parameters for vanadium lead vanadate glasses. *Ceramics International*. 45 (2019) 14058-14072. <https://doi.org/10.1016/j.ceramint.2019.04.105>
- A.65.** S.F. Olokotun, Kulwinder Singh Mann, S.T. Gbenu, F.I. Ibitoye, O.F. Oladejo, Amit Joshi, **H.O. Tekin**, M.I. Sayyed, M.K. Fasasi, F.A. Balogun, T. Korkut. Neutron-shielding behaviour investigations of some clay-materials. *Nuclear Engineering and Technology* 51 (2019) 1444-1450. <https://doi.org/10.1016/j.net.2019.03.019>
- A.66.** R. Divina, K. Marimuthu, M.I. Sayyed, **H.O. Tekin**, O. Agar. Physical, structural, and radiation shielding properties of B₂O₃-MgO-K₂O-Sm₂O₃ glass network modified with TeO₂. *Radiation Physics and Chemistry* 160 (2019) 75-82. <https://doi.org/10.1016/j.radphyschem.2019.03.029>
- A.67.** Ashok Kumar, D.K. Gaikwad, Shamsan S. Obaid, **H.O. Tekin**, O. Agar, M.I. Sayyed. Experimental studies and Monte Carlo simulations on gamma ray shielding competence of (30+x)PbOe10WO₃e 10Na₂O-10MgO - (40-x)B₂O₃ glasses. *Progress in Nuclear Energy*. Available online 2 May 2019. <https://doi.org/10.1016/j.pnucene.2019.103047>
- A.68.** E. Kavaz, **H.O. Tekin**, O. Agar, E.E. Altunsoy, O. Kilicoglu, M. Kamislioglu, M.M. Abuzaid, M.I. Sayyed. The Mass stopping power / projected range and nuclear shielding behaviors of barium bismuth borate glasses and influence of cerium oxide. *Ceramics International*. 45 (2019) 15348-15357. <https://doi.org/10.1016/j.ceramint.2019.05.028>
- A.69.** A.S. Abouhaswa, Y.S. Rammah, M.I. Sayyed, **H.O. Tekin**. Synthesis, structure, optical and gamma radiation shielding properties of B₂O₃-PbO₂-Bi₂O₃ glasses. *Composites Part B* 172 (2019) 218-225. <https://doi.org/10.1016/j.compositesb.2019.05.040>

A.70. M.I. Sayyed, **H.O. Tekin**, O. Agar. Gamma photon and neutron attenuation properties of MgO–BaO–B₂O₃–TeO₂–Cr₂O₃ glasses: The role of TeO₂. *Radiation Physics and Chemistry*. 163 (2019) pp. 58-66. <https://doi.org/10.1016/j.radphyschem.2019.05.012>

A.71. E. Kavaz, **H.O. Tekin**, N. Yildiz Yorgun, O. F. Ozdemir, M.I. Sayyed. Structural and nuclear radiation shielding properties of bauxite ore doped lithium borate glasses: Experimental and Monte Carlo study. *Radiation Physics and Chemistry* 162 (2019) 187–193. <https://doi.org/10.1016/j.radphyschem.2019.05.019>

A.72. **H.O. Tekin**, E. Kavaz, E.E. Altunsoy, M. Kamislioglu, O. Kilicoglu, O. Agar, M.I. Sayyed, Nevzat Tarhan. Characterization of a broad range gamma-ray and neutron shielding properties of MgO–Al₂O₃–SiO₂–B₂O₃ and Na₂O–Al₂O₃–SiO₂ glass systems. *Journal of Non-Crystalline Solids* 518 (2019) 92-102. <https://doi.org/10.1016/j.jnoncrysol.2019.05.012>

A.73. A. Aydogmuş Erik, E.Kavaz, Serkan Ilkbahar, U.Kara, C. E.Erik, **H.O. Tekin**. Structural and photon attenuation properties of different types of fiber post materials for dental radiology applications. *Results in Physics* 13 (2019) 102354. <https://doi.org/10.1016/j.rinp.2019.102354>

A.74. M.I. Sayyed, A.A. Ali, **H.O. Tekin**, Y.S. Rammah. Investigation of gamma-ray shielding properties of bismuth borotellurite glasses using MCNPX code and XCOM program. *Applied Physics A* (2019) 125: 445. <https://doi.org/10.1007/s00339-019-2739-x>

A.75. O. Kilicoglu, E.E. Altunsoy, O. Agar, M. Kamislioglu, M.I. Sayyed, **H.O. Tekin**, Nevzat Tarhan. Synergistic effect of La₂O₃ on mass stopping power (MSP)/projected range (PR) and nuclear radiation shielding abilities of silicate glasses. *Results in Physics* 14 (2019) 102424. <https://doi.org/10.1016/j.rinp.2019.102424>

A.76. Cebecioglu R., Yildirim M., Akagunduz D., Korkmaz I., **H.O. Tekin**, Atasever-Arslan B., Catal T. Synergistic effects of quercetin and selenium on oxidative stress in endometrial adenocarcinoma cells. *Bratisl Med J* 2019; 120 (6) 449 – 455. [doi:10.4149/BLL_2019_72](https://doi.org/10.4149/BLL_2019_72)

A.77. **H.O. Tekin**, E. Kavaz, Athanasia Papachristodoulou, M.Kamislioglu, O.Agar, E.E.Altunsoy Guclu, O.Kilicoglu, M.I. Sayyed. Characterization of SiO₂–PbO–CdO–Ga₂O₃ glasses for comprehensive nuclear shielding performance: Alpha, proton, gamma, neutron Radiation. *Ceramics International* 45 (2019) 19206 - 19222. <https://doi.org/10.1016/j.ceramint.2019.06.168>

A.78. M.I. Sayyed, Ashok Kumar, **H.O. Tekin**, Ramandeep Kaur, Mandeep Singh, O. Agar, Mayeen Uddin Khandaker. Evaluation of gamma-ray and neutron shielding features of heavy metals doped Bi₂O₃-BaO-Na₂O-MgO-B₂O₃ glass systems. *Progress in Nuclear Energy* 118 (2020) 103118. <https://doi.org/10.1016/j.pnucene.2019.103118>

A.79. Shams A.M. Issa, **H.O. Tekin**. The multiple characterization of gamma, neutron and proton shielding performances of xPbO-(99-x)B₂O₃-Sm₂O₃ glass system. *Ceramics International*. 45 (2019) 23561-23571. <https://doi.org/10.1016/j.ceramint.2019.08.065>

A.80. Shams A. M. Issa, **H.O. Tekin**, T.T. Erguzel, G. Susoy. The effective contribution of PbO on nuclear shielding properties of xPbO-(100-x)P₂O₅ glass system: a broad range investigation. *Applied Physics A* (2019) 125:640. <https://doi.org/10.1007/s00339-019-2941-x>

A.81. **H.O. Tekin**, L.R.P. Kassab, Shams A.M. Issa, C.D.S. Bordon, E.E. Altunsoy Guclu, G.R. da Silva Mattos, Ozge Kilicoglu. Synthesis and nuclear radiation shielding characterization of newly developed germanium oxide and bismuth oxide glasses. *Ceramics International*. 45 (2019) 24664–24674. <https://doi.org/10.1016/j.ceramint.2019.08.204>

A.82. Ozge Kilicoglu, **H.O. Tekin**. Bioactive glasses and direct effect of increased K₂O additive for nuclear shielding performance: A comparative investigation. *Ceramics International*. 46 (2020) 1323-1333. <https://doi.org/10.1016/j.ceramint.2019.09.095>

A.83. M.S. Al-Buriahi, A.S. Abouhaswa, **H.O. Tekin**, C. Sriwunkum, F.I. El-Agawany, T. Nutaro, Esra Kavaz, Y.S. Rammah. Structure, optical, gamma-ray and neutron shielding properties of NiO doped B₂O₃-BaCO₃-Li₂O₃ glass systems. *Ceramics International*. 46 (2020) 1711-1721. <https://doi.org/10.1016/j.ceramint.2019.09.144>

A.84. Yasser B. Saddeek, Shams A. M. Issa, T. Alharbi, K. Aly, Mahmoud. Ahmad, **H.O. Tekin**. Mechanical and nuclear shielding properties of sodium cadmium borate glasses: Impact of cadmium oxide additive. *Ceramics International*. 46 (2020) 2661-2669. <https://doi.org/10.1016/j.ceramint.2019.09.254>

A.85. H.O. Tekin, O. Kilicoglu. The influence of gallium (Ga) additive on nuclear radiation shielding effectiveness of Pd/Mn binary alloys. *Journal of Alloys and Compounds*. 815 (2020) 152484. <https://doi.org/10.1016/j.jallcom.2019.152484>

A.86. M.I. Sayyed, **H.O. Tekin**, Malaa M. Taki, M.H.A. Mhareb, O. Agar, E. Sakar, Kawa M. Kaky. Bi₂O₃-B₂O₃-ZnO-BaO-Li₂O glass system for gamma ray shielding applications. *Optik*. 201 (2020) 163525. <https://doi.org/10.1016/j.ijleo.2019.163525>

A.87. Ayshah Alatawi, Abdulrhman M. Alsharari, Shams A.M. Issa, M. Rashad, A.A.A. Darwish, Yasser B. Saddeek, **H.O. Tekin**. Improvement of mechanical properties and radiation shielding performance of Al-Bi-BO₃ glasses using yttria: An experimental investigation. *Ceramics International*. Available Online 9 October 2019. <https://doi.org/10.1016/j.ceramint.2019.10.069>

A.88. H.O. Tekin, Shams A.M. Issa, E. Kavaz, E.E. Altunsoy Guclu. The direct effect of Er₂O₃ on bismuth barium telluro borate glasses for nuclear security applications. *Materials Research Express*. 6 (2019) 115212. <https://doi.org/10.1088/2053-1591/ab4cb5>

A.89. M.I. Sayyed, O. Agar, Ashok Kumar, **H.O. Tekin**, D.K. Gaikwad, Shamsan S. Obaid. Shielding behaviour of (20 + x) Bi₂O₃ – 20BaO–10Na₂O–10MgO–(40-x) B₂O₃: An experimental and Monte Carlo study. *Chemical Physics*. 529 (2020) 110571. <https://doi.org/10.1016/j.chemphys.2019.110571>

A.90. H. O. Tekin, E.E. Altunsoy, V.P. Singh, I. Akkurt. A comparative study on shielding properties of some composite materials by MCNPX code. *Indian Journal of Chemical Technology (IJCT)*. Vol. 26, July 2019, pp. 347-350.

A.91. Nergiz Yildiz, Esra Kavaz, **H.O. Tekin**, M.I. Sayyed, O.F. Ozdemir. Borax effect on gamma and neutron shielding features of lithium borate glasses: An experimental and Monte Carlo studies. *Materials Research Express*. Accepted Manuscript online 21 October 2019. <https://doi.org/10.1088/2053-1591/ab4fcc>

A.92. H.O. Tekin, L. R. P. Kassab, Ozge Kilicoglu, Evelyn Santos Magalhães, Shams A.M. Issa, Guilherme Rodrigues da Silva Mattos. Newly developed tellurium oxide glasses for nuclear shielding applications: An extended investigation. *Journal of Non-Crystalline Solids*. 528 (2020) 119763.

<https://doi.org/10.1016/j.jnoncrysol.2019.119763>

A.93. Yasser B. Saddeek, Shams A.M. Issa, Thamer Shalih Al-Harbi, **H.O. Tekin**, O. Kilicoglu, T.T. Erguzel, Kamal A. Aly, Mahmoud Ahmad. Improvement of radiation shielding properties of some tellurovanadate based glasses. *Physica Scripta*. Accepted Manuscript Online: 4 November 2019.

<https://doi.org/10.1088/1402-4896/ab541d>

A.94. Shams A.M.Issa, Atif Mossad Ali, **H.O.Tekin**, Y.B.Saddeek, Ali Al-Hajry, Hamed Algarni, G.Susoy. Enhancement of nuclear radiation shielding and mechanical properties of YBiBO₃ glasses using La₂O₃. *Nuclear Engineering and Technology* 52 (2020) 6 pp.1297-1301

<https://doi.org/10.1016/j.net.2019.11.017>

A.95. G. Susoy, E.E. Altunsoy Guclu, Ozge Kilicoglu, M. Kamislioglu, M.S. Al-Buriahi, M.M. Abuzaid, **H.O. Tekin**. The impact of Cr₂O₃ additive on nuclear radiation shielding properties of LiF-SrO-B₂O₃ glass system. *Materials Chemistry and Physics*. 242 (2020) 122481.

<https://doi.org/10.1016/j.matchemphys.2019.122481>

A.96. M.S. Al-Buriahi, **H.O. Tekin**, Esra Kavaz, Baris T. Tonguc, Y.S. Rammah. New transparent rare earth glasses for radiation protection applications. *Applied Physics A*. (2019) 125:866.

<https://doi.org/10.1007/s00339-019-3077-8>

A.97. Shams A.M. Issa, G. Susoy, Atif Mossad Ali, **H.O. Tekin**, Y.B. Saddeek, Ali Al-Hajry, Hamed Algarni, P.S. Anjana, O. Agar. The effective role of La₂O₃ contribution on zinc borate glasses: radiation shielding and mechanical properties. *Applied Physics A*. (2019) 125:867.

<https://doi.org/10.1007/s00339-019-3169-5>

A.98. Zafer Atbasi, Yusuf Erdem, Ozkan Kose, Bahtiyar Demiralp, Serkan Ilkbahar, **H.O. Tekin**. Relationship Between Hallux Valgus and Pes Planus: Real or Fiction?. *The Journal of Foot & Ankle Surgery* (2019) 1-5. Published by Elsevier Inc. On behalf of American College of Foot and Ankle Surgeons.

<https://doi.org/10.1053/j.jfas.2019.09.037>

A.99. M. A. M. Uosif, A.M.A. Mostafa, Shams A.M. Issa, **H.O. Tekin**, Z.A. Alrowaili, O. Kilicoglu. Structural, mechanical and radiation shielding properties of newly developed tungstenlithium borate glasses: An experimental study. *Journal of Non-Crystalline Solids*. 532 (2020) 119882. <https://doi.org/10.1016/j.jnoncrysol.2019.119882>

A.100. Ozge Kilicoglu, **H.O. Tekin**. Bioactive glasses with TiO₂ additive: Behavior characterization against nuclearradiation and determination of buildup factors. *Ceramics International*. Volume 46, Issue 8, Part A, 1 June 2020, Pages 10779-10787. <https://doi.org/10.1016/j.ceramint.2020.01.088>

A.101. M. Kamislioglu, E.E. Altunsoy Guclu, **H.O. Tekin**. Comparative evaluation of nuclear radiation shielding properties of xTeO₂ + (100-x)Li₂O glass system. *Applied Physics A* (2020) 126: 95. <https://doi.org/10.1007/s00339-020-3284-3>

A.102. **H.O. Tekin**, L. R. P. Kassab, Shams A.M. Issa, M.M. Martins, L. Bontempo, Guilherme Rodrigues da Silva Mattos. Newly developed BGO glasses: Synthesis, optical and nuclear radiation shielding properties. *Ceramics International*. 46 (2020) 11861-11873. <https://doi.org/10.1016/j.ceramint.2020.01.221>

A103. M.R. Kacal, H. Polat, M. Oltulu, F. Akman, O. Agar & **H.O. Tekin**. Gamma shielding and compressive strength analyses of polyester composites reinforced with zinc: an experiment, theoretical, and simulation based study. *Applied Physics A* 126, 205 (2020). <https://doi.org/10.1007/s00339-020-3382-2>

A.104. Umit Kara, Shams A.M. Issa, G. Susoy, M. Rashad, E. Kavaz, N. Yildiz Yorgun, **H.O. Tekin**. Synergistic effect of serpentine mineral on Li₂B₄O₇ glasses: optical, structural and nuclear radiation shielding properties. *Applied Physics A* 126, 208 (2020). <https://doi.org/10.1007/s00339-020-3397-8>

A.105. M. Rashad, **H.O. Tekin**, Hesham M.H. Zakaly, Mariia Pyshkina, Shams A.M. Issa, G. Susoy. Physical and nuclear shielding properties of newly synthesized magnesium oxide and zinc oxide nanoparticles. *Nuclear Engineering and Technology* 52 (2020) 2078-2084. <https://doi.org/10.1016/j.net.2020.02.013>

A.106. M.S. Al-Buriah, Halil Arslan, **H.O. Tekin**, V.P. Singh, Baris Tonguc. MoO₃-TeO₂ glass system for gamma ray shielding applications. *Mater. Res. Express* 7 (2020) 025202. <https://doi.org/10.1088/2053-1591/ab6db4>

A.107. E. Kavaz, F.I. El-Agawany, **H.O. Tekin**, U. Perisanoglu, Y.S. Rammah. Nuclear radiation shielding using barium borosilicate glass ceramics. *Journal of Physics and Chemistry of Solids*. 142 (2020) 109437. <https://doi.org/10.1016/j.jpccs.2020.109437>

A.108. Mohamed M. Abuzaid, G. Susoy, Shams A.M. Issa, W. Elshami, O. Kilicoglu, **H.O. Tekin**. Relationship between melting-conditions and gamma shielding performance of fluoro-sulfo-phosphate (FPS) glass systems: A comparative investigation. *Ceramics International*. 46 (2020) 15255-15269. <https://doi.org/10.1016/j.ceramint.2020.03.065>

A.109. Umit Kara, E. Kavaz, Shams A.M. Issa, M. Rashad, G. Susoy, A.M.A. Mostafa, N. Yildiz Yorgun, **H.O. Tekin**. Optical, structural and nuclear radiation shielding properties of Li₂B₄O₇ glasses: effect of boron mineral additive. *Applied Physics A*. **126**, 261 (2020). <https://doi.org/10.1007/s00339-020-3446-3>

A.110. Yasser B. Saddeek, Shams A.M. Issa, E.E. Altunsoy Guclu, O.Kilicoglu, G.Susoy, **H.O. Tekin**. Alkaline phosphate glasses and synergistic impact of germanium oxide (GeO₂) additive: Mechanical and nuclear radiation shielding behaviors. *Ceramics International* 46 (2020) 16781-16797. <https://doi.org/10.1016/j.ceramint.2020.03.254>

A.111. Umit Kara, Shams A.M. Issa, N. Yildiz Yorgun, O. Kilicoglu, M. Rashad, Mohamed M. Abuzaid, E. Kavaz, **H.O. Tekin**. Optical, structural and gamma ray shielding properties of dolomite doped lithiumborate glasses for radiation shielding applications. *Journal of Non-Crystalline Solids*. 539 (2020) 120049 <https://doi.org/10.1016/j.jnoncrysol.2020.120049>

A.112. Shams A.M. Issa, Atif Mossad Ali, G. Susoy, **H.O. Tekin**, Yasser B. Saddeek, Reda Elsaman, H.H. Somaily, H. Algarni. Mechanical, physical and gamma ray shielding properties of xPbO- (50-x) MoO₃-50V₂O₅ (25 ≤ x ≤ 45 mol %) glass system. *Ceramics International*. 46 (2020) 20251-20263. <https://doi.org/10.1016/j.ceramint.2020.05.107>

A.113. E.E. Altunsoy, **H.O. Tekin**, A. Mesbahi, I. Akkurt. MCNPX Simulation for Radiation Dose Absorption of Anatomical Regions and Some Organs. *Acta Physica Polonica A* 137 (2020) 4. doi: [10.12693/APhysPolA.137.561](https://doi.org/10.12693/APhysPolA.137.561)

A.114. E. Kavaz, **H.O. Tekin**, G. Kilic, G. Susoy. Newly developed Zinc-Tellurite glass system: An experimental investigation on impact of Ta₂O₅ on nuclear radiation shielding ability. *Journal of Non-Crystalline Solids* 544 (2020) 120169. <https://doi.org/10.1016/j.jnoncrysol.2020.120169>

A.115. U. Perişanoğlu, E. Kavaz, **H.O. Tekin**, S.R. Armoosh, N. Ekinici, M. Oltulu. Comparison of gamma and neutron shielding competences of Fe–Cu- and brass-added Portland cement pastes: an experimental and Monte Carlo study. *Applied Physics A*. 126, 470 (2020). <https://doi.org/10.1007/s00339-020-03648-6>

A.116. U. Kara, E. Kavaz, Shams A.M. Issa, M. Rashad, M.M. Abuzaid, R. Uslu Erdemir, **H.O. Tekin**. FTIR, structural and radiation attenuation properties of amalgam dental composites for medical applications. *Materials Chemistry and Physics* 253 (2020) 123261. <https://doi.org/10.1016/j.matchemphys.2020.123261>

A.117. **H.O. Tekin**, F. Akman, Shams A.M. Issa, M.R. Kacal, O. Kilicoglu, H. Polat. Two-step investigation on fabrication and characterization of iron-reinforced novel composite materials for nuclear-radiation shielding applications. *Journal of Physics and Chemistry of Solids* 146 (2020) 109604. <https://doi.org/10.1016/j.jpics.2020.109604>

A.118. Reda Elsaman, Shams A. M. Issa, **H. O. Tekin**, G. Susoy, A. A. Showahy, M. M. Elokr, T. T. Erguzel & Yasser B. Saddeek. (59.5–x) P₂O₅–30Na₂O–10Al₂O₃–0.5CoO–xNd₂O₃ glassy system: an experimental investigation on structural and gamma-ray shielding properties. *Applied Physics A* 126, 502 (2020). <https://doi.org/10.1007/s00339-020-03697-x>

A.119. U. Kara, G. Susoy, Shams A. M. Issa, Wiam Elshami, N. Yildiz Yorgun, M. M. Abuzaid, E. Kavaz, **H.O. Tekin**. Scanning electron microscopy (SEM), energy-dispersive X-ray (EDX) spectroscopy and nuclear radiation shielding properties of [α-Fe³⁺O(OH)]-doped lithium borate glasses. *Applied Physics A* 126, 506 (2020). <https://doi.org/10.1007/s00339-020-03683-3>

A.120. Mahmoud Gaballah, Shams A M Issa, Yasser B Saddeek, Reda Elsaman, Gulfem Susoy, Türker Tekin Ergüzel, Thamer Shalih Al-Harbi and **H.O. Tekin**. Mechanical and nuclear radiation shielding properties of different boro-tellurite glasses: A comprehensive investigation on large Bi₂O₃ concentration. *Physica Scripta* 95 (2020) 085701. <https://doi.org/10.1088/1402-4896/ab9bde>

A.121. Wiam Elshami, Mohamed M. Abuzaid, **H.O. Tekin**. Effectiveness of Breast and Eye Shielding During Cervical Spine Radiography: An Experimental Study. *Risk Management and Healthcare Policy* 13 (2020) 697-704. <http://doi.org/10.2147/RMHP.S257185>

A.122. U. Kara, G. Susoy, Shams A.M. Issa, Wiam Elshami, N. Yildiz Yorgun, M.M. Abuzaid, E. Kavaz, **H.O. Tekin**. Iron (III) oxide doped lithium borate glasses: structural and charged particles/photon shielding properties. *Journal of Non-Crystalline Solids* 546 (2020) 120281. <https://doi.org/10.1016/j.jnoncrysol.2020.120281>

A.123. Y.S. Rammah, E. Kavaz, U. Perisanoglu, Gokhan Kilic, F.I. El-Agawany, **H.O. Tekin**. Charged particles and gamma-ray shielding features of oxyfluoride semiconducting glasses: TeO₂-Ta₂O₅-ZnO/ZnF₂. *Ceramics International* Available Online 7 June 2020. <https://doi.org/10.1016/j.ceramint.2020.06.289>

A.124. Y.S. Rammah, **H.O. Tekin**, C. Sriwunkum, I. Olarinoye, Amani Alalawi, M.S. Al-Buriahi, T. Nutaro, Baris T. Tonguc. Investigations on borate glasses within SBC-Bx system for gamma-ray shielding applications. *Nuclear Engineering and Technology* Available online 18 July 2020. <https://doi.org/10.1016/j.net.2020.06.034>

A.125. Mohamed M. Abuzaid, Wiam Elshami, A. El Serafi, T. Hussien, J.R. McConnell and **H.O. Tekin**. Toward National CT Diagnostic Reference Levels in the United Arab Emirates: A Multicenter Review of CT Dose Index and Dose Area Product. *Radiation Protection Dosimetry* (2020), pp. 1–7. <https://doi.org/10.1093/rpd/ncaa100>

A.126. A.S. Abouhaswa, U. Perişanoğlu, **H.O. Tekin**, E. Kavaz, A.M.A. Henaish. Nuclear shielding properties of B₂O₃-Pb₃O₄-ZnO glasses: Multiple impacts of Er₂O₃ additive. *Ceramics International* Available 1 August 2020. <https://doi.org/10.1016/j.ceramint.2020.07.283>

A.127. Mohamed M. Abuzaid, Wiam Elshami, **H.O. Tekin**, Hatem Ghonim, Mona Shawki and Dina H. Salama. Computed tomography radiation doses for common computed tomography examinations: a nationwide dose survey in United Arab Emirates. *Insights into Imaging* (2020) 11:88 <https://doi.org/10.1186/s13244-020-00891-6>

A.128. Mohamed M. Abuzaid, Wijdan Hamad, Wiam Elshami, **H.O. Tekin**, Wadah Ali, Simaa Khayal. Radiography Advanced Practice in the United Arab Emirates: The Perceptions and Readiness of Mammographers. *Journal of Multidisciplinary Healthcare* 13 (2020) 753–758. <http://doi.org/10.2147/JMDH.S262579>

A.129. Katia Katsari, Chryssa Paraskevopoulou, Milan Barati, Eleni Kostopoulou, Romualdas Griskevicius, Nuria Blazquez, **H. O. Tekin**, Rowland O. Illing. Lead exposure in clinical imaging – the elephant in the room. *European Journal of Radiology* 131 (2020) 109210. <https://doi.org/10.1016/j.ejrad.2020.109210>

A.130. K.A. Nasser, K.Marimuthu, M.S. Al-Buriah, Amani Alalawi, **H.O. Tekin**. Influence of Bi₂O₃ concentration on barium-telluro-borate glasses: Physical, structural and radiation-shielding properties. *Ceramics International* Available Online 17 August 2020. <https://doi.org/10.1016/j.ceramint.2020.08.138>

A.131. A.I. Elazaka, Hesham M. H. Zakaly, Shams A. M. Issa, M. Rashad, **H.O. Tekin**, H.A.Saudi, V.H. Gillette, T.T.Erguzel, A.G.Mostafa. New approach to removal of hazardous Bypass Cement Dust (BCD) from the environment: 20Na₂O-20BaCl₂-(60-x)B₂O₃-(x)BCD glass system and Optical, mechanical, structural and nuclear radiation shielding competences. *Journal of Hazardous Materials* 403 (2021) 123738. <https://doi.org/10.1016/j.jhazmat.2020.123738>

A.132. A.S. Abouhaswa, Hesham M.H. Zakaly, Shams A.M. Issa, M. Rashad, Maria Pyshkina, **H.O. Tekin**, R.El-Mallawany, Mostafa Y.A. Mostafa. Synthesis, physical, optical, mechanical, and radiation attenuation properties of TiO₂-Na₂O-Bi₂O₃-B₂O₃ glasses. *Ceramics International* Available online 20 August 2020 <https://doi.org/10.1016/j.ceramint.2020.08.122>

A.133. H.O. Tekin, M.R. Kacal, Shams A.M. Issa, H. Polat, G. Susoy, F. Akman, O. Kilicoglu, V.H. Gillette. Sodium dodecatungstophosphate hydrate-filled polymer composites for nuclear radiation shielding. *Materials Chemistry and Physics* 256 (2020) 123667 <https://doi.org/10.1016/j.matchemphys.2020.123667>

A.134. Yasser B. Saddeek, **H.O. Tekin**, Shams A.M. Issa, O. Kilicoglu, Wiam Elshami, Thamer Shalih Al-Harbi. An in-depth investigation from mechanical durability to structural and nuclear radiation attenuation properties: B₂O₃-Na₂O-Bi₂O₃-Nb₂O₅ glasses experience. *Physica Scripta* Accepted Manuscript online 25 August 2020. <https://doi.org/10.1088/1402-4896/abb256>

A.135. Y.S. Rammah, Ashok Kumar, K. A. Mahmoud, R. El-Mallawany, F. I El-Agawany, G. Susoy, **H.O. Tekin**. SnO Reinforced Silicate Glasses and Utilization in Gamma Radiation Shielding Applications. *Emerging Materials Research* 9 (3) <https://doi.org/10.1680/jemmr.20.00150>

A.136. Shams A. M. Issa, L. R. P. Kassab, G. Susoy, M. V. M. Nishimura, G. R. da Silva Mattos, C. D. S. Bordon, **H. O. Tekin**. Fabrication, optical characteristic, and nuclear radiation shielding properties of newly synthesised PbO–GeO₂ glasses. *Applied Physics A* 126 (2020) 748 [doi:10.1007/s00339-020-03928-1](https://doi.org/10.1007/s00339-020-03928-1)

A.137. Iskender Akkurt, **H.O. Tekin**. Radiological Parameters for Bismuth Oxide Glasses Using Phy-X/PSD Software. *Emerging Materials Research* 9 (3) <https://doi.org/10.1680/jemmr.20.00209>

A.138. A. Abdel-Latif M., M.I. Sayyed, **H.O. Tekin**, M.M. Kassab. Optimizing the shielding properties of strength-enhanced concretecontaining marble. *Papers in Physics* 12 (2020) 120005. <https://doi.org/10.4279/PIP.120005>

A.139. Gokhan Kilic, Shams A.M. Issa, Erkan Ilik, O. Kilicoglu, **H.O. Tekin**. A journey for exploration of Eu₂O₃ reinforcement effect on zinc-borate glasses: Synthesis, optical, physical and nuclear radiation shielding properties. *Ceramics International* Available online 14 September 2020. <https://doi.org/10.1016/j.ceramint.2020.09.103>

A.140. A.M.A. Mostafa, Hesham M.H. Zakaly, Mariia Pyshkina, Shams A.M. Issa, **H.O. Tekin**, H.A.A. Sidek, K.A. Matori, M.H.M. Zaid. Multi-objective optimization strategies for radiation shielding performance of BZBB glasses using Bi₂O₃: A FLUKA Monte Carlo code calculations, *Journal of Materials Research and Technology* 9 (2020) 6. <https://doi.org/10.1016/j.jmrt.2020.08.077>.

A.141. Wiam Elshami, Theophilus N. Akudjeu, Mohamed Abuzaid, Leena R. David, **H.O. Tekin**, B. Cavli, Bashar Issa. The radiology workforce's response to the COVID-19 pandemic in the Middle East, North Africa and India. *Radiography* Available online 23 September 2020. <https://doi.org/10.1016/j.radi.2020.09.016>

A.142. **H.O. Tekin**, Shams A.M. Issa, K.A. Mahmoud, F.I. El-Agawany, Y.S. Rammah, G. Susoy, M.S. Al-Buriahi, Mohamed M. Abuzaid, I. Akkurt. Nuclear Radiation Shielding Competences of Barium (Ba) Reinforced Borosilicate Glasses. *Emerging Materials Research* 9 (2020) 4 pp. 1-12. <https://doi.org/10.1680/jemmr.20.00185>

A.143. Atif Mossad Ali, Shams A.M. Issa, M. Rashad, Y.B. Saddeek, M.H.M. Zaid, M.A. Sayed, H.H. Somaily, **H.O. Tekin**, H.A.A. Sidek, K.A. Matori, Hesham M.H. Zakaly. Promising applicable heterometallic Al₂O₃/PbO₂ nanoparticles in shielding properties. *Journal of Materials Research and Technology*. Available online 8 October 2020. <https://doi.org/10.1016/j.jmrt.2020.09.125>

A.144. **H.O. Tekin**, Aly Samy Abouhaswa, O. Kilicoglu, Shams A.M. Issa, I. Akkurt, Y. Rammah. Fabrication, physical characteristic, and gamma-photon attenuation parameters of newly developed molybdenum reinforced bismuth borate glasses. *Physica Scripta* Accepted Manuscript online 8 October 2020. <https://doi.org/10.1088/1402-4896/abfb6e>

A.145. F. Akman, I. Ozkan, M.R. Kacal, H. Polat, Shams A.M. Issa, **H.O. Tekin**, O. Agar. Shielding features, to non-ionizing and ionizing photons, of FeCr-based composites. *Applied Radiation and Isotopes* 167 (2021) 109470. <https://doi.org/10.1016/j.apradiso.2020.109470>

A.146. H.O. Tekin, L.R. P. Kassab, Shams A.M. Issa, Camila Dias da Silva Bordon, M.S. Al-Buriahi, Filipe de Oliveira Pereira Delboni, Gokhan Kilic, Evelyln Santos Magalhaes. Structural and physical characterization study on synthesized tellurite (TeO₂) and germanate (GeO₂) glass shields using XRD, Raman spectroscopy, FLUKA and PHITS. *Optical Materials* 110 (2020) 110533. <https://doi.org/10.1016/j.optmat.2020.110533>

A.147. A.M.A. Mostafa, Shams A.M. Issa, Hesham M.H. Zekaly, M.H. M Zaid, **H.O. Tekin**, K.A. Matori, H.A.A. Sidek, Reda Elsaman. The influence of heavy elements on the ionizing radiation shielding efficiency and elastic properties of some tellurite glasses: theoretical investigation. *Results in Physics* Available online 15 October 2020 <https://doi.org/10.1016/j.rinp.2020.103496>

A.148. Salavadi Stalin, D.K. Gaikwad, M.S. Al-Buriahi, Ch Srinivasu, Shaik Amer Ahmmad, **H.O. Tekin**, Syed Rahman. Influence of Bi₂O₃/WO₃ substitution on the optical, mechanical, chemical durability and gamma ray shielding properties of lithium-borate glasses. *Ceramics International* Available online 16 October 2020. <https://doi.org/10.1016/j.ceramint.2020.10.109>

A.149. Hesham M.H. Zakaly, H.A. Saudi, Shams A.M. Issa, M. Rashad, A.I. Elazaka, H.O. Tekin, Y.B. Saddeek. Alteration of optical, structural, mechanical durability and nuclear radiation attenuation properties of barium borosilicate glasses through BaO reinforcement: Experimental and numerical analyses. *Ceramics International* Available online 21 October 2020 <https://doi.org/10.1016/j.ceramint.2020.10.143>

A.150. G. Lakshminarayana, Ashok Kumar, **H.O. Tekin**, Shams A.M. Issa, M.S. Al-Buriahi, Dong-Eun Lee, Jonghun Yoon, Taejoon Park. Binary B₂O₃-Bi₂O₃ glasses: Scrutinization of directly and indirectly ionizing radiations shielding abilities. *Journal of Materials Research and Technology* Available Online 22 October 2020 <https://doi.org/10.1016/j.jmrt.2020.10.019>

A.151. M.S. Al-Buriahi, H.H. Hegazy, Faisal Alrashedi, I.O. Olarinoye, H. Algarni, **H.O. Tekin**, H.A. Saudi. Effect of CdO addition on photon, electron, and neutron attenuation properties of borotellurite glasses. *Ceramics International*. Available Online 27 October 2020 <https://doi.org/10.1016/j.ceramint.2020.10.168>

A.152. Gokhan Kilic, Shams A.M. Issa, Erkan Ilik, O. Kilicoglu, U. Gokhan Issever, R. El-Mallawany, Bashar Issa, **H.O. Tekin**. Physical, thermal, optical, structural and nuclear radiation shielding properties of Sm₂O₃ reinforced borotellurite glasses. *Ceramics International*. Available Online 29 October 2020. <https://doi.org/10.1016/j.ceramint.2020.10.194>

A.153. Mohamed M. Abuzaid, Wiam Elshami, **H.O. Tekin**, Bashar Issa. Assessment of the Willingness of Radiologists and Radiographers to Accept the Integration of Artificial Intelligence Into Radiology Practice. *Academic Radiology* Available Online 29 October 2020. <https://doi.org/10.1016/j.acra.2020.09.014>

A.154. Shams A.M. Issa, Rashad, M., H.M.H. Zakaly, **H.O. Tekin**, A. Abouhaswa. Nb₂O₅-Li₂O-Bi₂O₃-B₂O₃ novel glassy system: evaluation of optical, mechanical, and gamma shielding parameters. *J Mater Sci: Mater Electron* (2020). <https://doi.org/10.1007/s10854-020-04707-7>

A.155. U. Perisanoglu, **H.O. Tekin**, A.S. Abouhaswa, E. Kavaz. Structural and nuclear shielding qualities of B₂O₃-PbO-Li₂O glass system with different Ag₂O substitution ratios. *Radiation Physics and Chemistry* 179 (2020) 109262. <https://doi.org/10.1016/j.radphyschem.2020.109262>

A.156. **H.O. Tekin**, E. Kavaz, M.I. Sayyed, O. Agar, M. Kamislioglu, E.E. Altunsoy Guclu, C. Eke. An extensive study on nuclear shielding performance and mass stopping power (MSP)/projected ranges (PR) of some selected granite samples. *Radiation Effects & Defects in Solids*. Published online: 26 Nov 2020. <https://doi.org/10.1080/10420150.2020.1849209>

A.157. Hesham M.H. Zakaly, Mostafa Y.A. Mostafa, Sergey Dzholumbetov, Shams A.M. Issa, **H.O. Tekin**, Rabie Uslu Erdemir, Michael Zhukovsky. Comparative study on application of ¹⁷⁷Lu-labeled rituximab, tetulomab, cetuximab and huA33 monoclonal antibodies to targeted radionuclide therapy. *Biomedical Physics & Engineering Express* Accepted Manuscript Online 11 December 2020. <https://doi.org/10.1088/2057-1976/abd307>

A.158. Baris Cavli, Ceren Ozturk, H.E. Senel, R.B. Pekar, Wiam Elshami, **H.O. Tekin**. Coronavirus disease 2019 strategies, examination details and safety procedures for diagnostic radiology facilities: An extensive multi-centre experience in Istanbul, Turkey. *Journal of Radiology Nursing* Available Online 30 December 2020. <https://doi.org/10.1016/j.jradnu.2020.12.013>

A.159. A. El-Denglawey, Hesham M.H. Zakaly, K. Alshammari, Shams A.M.Issa, **H.O. Tekin**, Yasser B.Saddeek. Prediction of mechanical and radiation parameters of glasses with high Bi₂O₃ concentration. *Results in Physics* 21 (2021) 103839. <https://doi.org/10.1016/j.rinp.2021.103839>

A.160. A. El-Denglawey, Shams A.M. Issa, Yasser B Saddeek, Wiam Elshami, M. A. Sayed, Reda Elsaman, N. Tarhan, **H.O. Tekin**. Mechanical, structural and nuclear radiation shielding competencies of some tellurite glasses reinforced with molybdenum trioxide. *Physica Scripta* 96 (2021) 045702 <https://doi.org/10.1088/1402-4896/abe1f8>

A.161. B.Alshahrani, I.O. Olarinoye, C.Mutuwong, Chahkrit Sriwunkum, H.A. Yakout, **H.O. Tekin**, M.S.Al-Buriahi. Amorphous alloys with high Fe content for radiation shielding applications. *Radiation Physics and Chemistry* Available online 17 February 2021, 109386. <https://doi.org/10.1016/j.radphyschem.2021.109386>

A.162. A.M. Deliormanlı, M.S. Al-Buriahi, H.H. Somaily, **H.O. Tekin**. 13-93B3 Bioactive glasses containing Ce³⁺, Ga³⁺ and V⁵⁺: dose rate and gamma radiation characteristic for medical purposes. *Applied Physics A* 127, 210 (2021). <https://doi.org/10.1007/s00339-021-04376-1>

A.163. Hesham M.H. Zakaly, M.Rashad, **H.O. Tekin**, H.A.Saudi, Shams A.M. Issa, A.M.A. Henaish. Synthesis, optical, structural and physical properties of newly developed dolomite reinforced borate glasses for nuclear radiation shielding utilizations: An experimental and simulation study. *Optical Materials* 114 (2021) 110942. <https://doi.org/10.1016/j.optmat.2021.110942>

A.164. **H.O.Tekin**, S.A.M, Issa, G. Kilic, H.M.H. Zakaly, M.M. Abuzaid, N. Tarhan, K. Alshammari, H.A.A. Sidek, K.A. Matori, M.H.M. Zaid. In-Silico Monte Carlo Simulation Trials for Investigation of V₂O₅ Reinforcement Effect on Ternary Zinc Borate Glasses: Nuclear Radiation Shielding Dynamics. *Materials* 2021, 14, 1158. <https://doi.org/10.3390/ma14051158>

A.165. U. Perişanoğlu, Fouad Ismail Elagwany, **H.O. Tekin**, Esra Kavaz, Hesham MH Zakaly, Shams A M Issa, Mohd Hafiz Mohd Zaid, H.A.A. Sidek, Khamirul Amin Matori and Yasser Rammah. Multiple characterization of some glassy-alloys as photon and neutron shields: In-silico Monte Carlo investigation. *Materials Research Express* Accepted Manuscript online 2 March 2021 <https://doi.org/10.1088/2053-1591/abeb4e>

A.166. H.A. Saudi, **H.O. Tekin**, Hesham M.H. Zakaly, Shams A.M. Issa, G. Susoy, M. Zhukovsky. The impact of samarium (III) oxide on structural, optical and radiation shielding properties of thallium-borate glasses: Experimental and numerical investigation. *Optical Materials* 110948. <https://doi.org/10.1016/j.optmat.2021.110948>

A.167. A.S. Abouhaswa, **H.O. Tekin**, E. Kavaz, U. Perisanoglu. Optical and nuclear radiation protection characteristics of lithium Bismo-borate glasses: Role of ZrO₂ substitution. *Radiation Physics and Chemistry* Available online 5 March 2021, 109428. <https://doi.org/10.1016/j.radphyschem.2021.109428>

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>

B.6. H.O. Tekin, Tugba Manici, Viswanath P. Singh. An Investigation on Shielding Effect of Bismuth on Lung CT Scan using Monte Carlo Simulation. *Journal of Polytechnic*, 2016; 19 (4) : 617-620. doi: [10.2339/2016.19.4.617-622](https://doi.org/10.2339/2016.19.4.617-622)

B.7. Umit Kara, **H.O. Tekin**, Mehmet Nuri Kivrak, Gokberk Yagci. MIT: A Program to Simulate X-ray Images of the Body by Considering kVp, mAs and FFM Values. *Iranian Journal of Medical Physics*. 2017 (14) 60-65. doi:[10.22038/ijmp.2017.20127.1191](https://doi.org/10.22038/ijmp.2017.20127.1191)

B.8. V.P. Singh, N.M. Badiger, M.E. Medhat, **H.O. Tekin**. Novel High Strength Economical Shielding Materials. *Sinop Uni J Nar Sci*, 2 (1): 1-12 (2017).

B.9. H.O. Tekin, A. Mesbahi, V.P. Singh, U. Kara, T. Manici, E.E. Altunsoy. Assessment of MCNPX Monte Carlo Code for Absorbed Dose Calculations in Mammography Examination. *AKU J. Sci. Eng* (2017). doi: [10.5578/fmbd.53950](https://doi.org/10.5578/fmbd.53950)

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>

B.14 H. O. Tekin, Turker Tekin Erguzel, Mesut Karahan, Muhsin Konuk, Nevzat Tarhan. Radiation Attenuation Properties of Human Brain Regions According to Elemental Composition in Radiological Energy Range: A Monte Carlo Simulation. *The Journal of Neurobehavioral Sciences (JNBS)*. Vol.5 (1), 2018. [doi:10.5455/JNBS.1521311225](https://doi.org/10.5455/JNBS.1521311225)

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>

B.17. H.O. Tekin, E. E. Altunsoy, F. C. Ozturk, O. Kilicoglu, and M. I. Sayyed. Gamma-ray attenuation properties of boron carbide in radiological energy range using MCNPX code. *AIP Conference Proceedings* 2042, 020059 (2018). [doi: 10.1063/1.5078931](https://doi.org/10.1063/1.5078931)

B.18. Ozge Kilicoglu, **H.O. Tekin**, V.P. Singh. Determination of Mass Attenuation Coefficients of different types of concretes using Monte Carlo method. *European Journal of Science and Technology*, (2019) 591-598, [doi:10.31590/ejosat.535203](https://doi.org/10.31590/ejosat.535203)

B.19. Altunsoy EE, **Tekin HO**. Monte Carlo Simulations and its Applications on Pharmacological Materials: An Overview Study. Akkan AG, Editor. İlaç Araştırmalarında Matematiksel Modeller.1. Baskı. Ankara: *Türkiye Klinikleri*; 2019.p.13-7.

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**. Bremsstrahlung Test Area @ TARLA. ADIM Physics Days 2010 Afyonkarahisar/ TURKEY.

C6. Iskender Akkurt, Betül Mavi, Kadir Günoğlu, **H. O. TEKIN**. Surface Radiation Measurement on Thermals in Afyon. ADIM Physcs Days-I 2010 Afyonkarahisar/ TURKEY.

C7. Pinar BAŞ, I.Akkurt, B.Mavi, K.Gunoglu, **H.O. Tekin**. Examinations of Radiation Absorption Properties of Some Wood Materials. Turkish Physical Association Congress August-20101 Istanbul-TURKEY.

C8. N. Demir, I. Akkurt, M. Dogru, G. Yegin, **H.O. Tekin**, Z.N. Demirci. Simulations of Bremsstrahlung Photon Yields Generated in Thin Radiator. 2nd Internationalconference on Nuclear and Renewable energy Resources (NURER). 4-7 July 2010 Gazi University-Ankara / TURKEY.

C9. Iskender Akkurt, **H.O. Tekin** et al. Radiation shielding of the bremsstrahlung photon facility at TARLA. X. Radiation Physics and Protection conference 26-30 November 2010 Cario – EGYPT.

C10. K.Günoğlu, I.Akkurt, G.Yeğin, **H.O. Tekin**. Prediction of Bremsstrahlung PhotonFlux by Using Artificial Neural Networks. Turkish Physical Association Congress 6-9 September-2011 Bodrum-TURKEY.

C11. I. Akkurt, **H.O. Tekin**. Tarla Bremsstrahlung Deney Tesisi Foton Gömüsü Parametreleri. Turkish Physical Association Congress 6-9 September-2011 Bodrum- TURKEY.

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.

C14. **H.O.Tekin**, I.Akkurt, Ü.Kara. Some Geant Simulation Studies for HPGe Dedector. 7. International Luminescence Dosimetry Congress.10-12 September 2013 Isparta, Turkey.

C16. **H. O. Tekin**, Iskender Akkurt. Optimization of the gamma detectors for NRF experiments at TARLA. International Conference on Computational and Experimental Science and Engineering.(ICCESEN2014) 25-29 October 2014. Kemer-Antalya TURKEY.

C17. **H.O. Tekin**, Iskender AKKURT and Asghar MESBAHI. Calculation of Detection Efficiency for the gamma detectors using MCNPX. InternationalConference on Computational and Experimental Science and Engineering. (ICCESEN2014) 25-29 October 2014. Kemer-Antalya TURKEY.

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.

C19. Umit KARA, **H.O.Tekin** and Iskender AKKURT. Radiation Protection in PET Room. InternationalConference on Computational and Experimental Science and Engineering. (ICCESEN2014) 25-29 October 2014. Kemer-Antalya TURKEY.

C20. U. Kara, **H.O.Tekin**, I. Akkurt. Computer Tomography Routine Examinations and The Relation Risk of Cancer. InternationalConference on Computational and Experimental Science and Engineering. (ICCESEN2015) 14-19 October 2015. Kemer-Antalya TURKEY.

C21. K. Yilancioglu, **H.O.Tekin**. Nitrogen source, an important determinant of fatty acid accumulation and profile in *Scenedesmus obliquus*. International Conference on Computational and Experimental Science and Engineering. (ICCESEN2015) 14-19 October 2015. Kemer-Antalya TURKEY.

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.

C23. **H.O.Tekin**, K. Yilancioglu, Ü. Kara, , I. Akkurt. Estimation of Nuclear Resonance Fluorescence (NRF) Excitations Photopeaks and Energy Levels in 63-1874 keV Energy Range by Using Artificial Neural Networks (ANN). International Conference on Computational and Experimental Science and Engineering. (ICCESEN2015) 14-19 October 2015. Kemer-Antalya TURKEY.

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.

C28. Umit Kara, **H.O. Tekin**, Mustafa Yildiz. Clinical Experiences with TC-99M renal scintigraphy. Fourth International Conference on Radiation and Applications in Various Fields of Research May 23-27, 2016. Faculty of Electronic Engineering, Nis-SERBIA.

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.

C30. M. Findikli, R.Keskin, **H.O.Tekin**, U.Kara. A Reseach Study On Effects of Free Radicals in Biological Systems. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY.

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 İnvestigation 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

C35. F.Duzyol, N.Yeyin, M.Demir, **H.O. Tekin**. Technical Overview To Pet-Ct And Recent Status in Turkey. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum –TURKEY

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 İmaging Applications. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY

C38. H.O. Tekin, H.Şahin, R.Keskin. An İnterigation On Anode Heel Effect And Total X-Ray Spectrum in Mammography Tubes By Using MCNP-X Code. Turkish Physical Society 32nd İnternationalphysics Congress. 6-9 September 2016. Bodrum – TURKEY

C39. E.E. Altunsoy, T.Manici, H.O.Tekin. A Comparison Study On Spectral Photon Flux Density Change By Target Thickness of Molybdenum (Mo) As A Mammographic Anode Material BY Using MCNP-X CODE. Turkish Physical Society 32nd İnternationalphysics Congress. 6-9 September 2016. Bodrum – TURKEY

C40. E.E. Altunsoy, T.Manici, H.O. Tekin. Effect of The Electron Beam Energy on Spectral Photon Flux of Mammographic Anode Material Molybdenum (Mo) A Monte Carlo Study By Using MCNP-X Code. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY.

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

C43. B. Demirkan, M. Yildiz, H.O. Tekin. Statistical Research On Relationship Between İonizing Radiation And Different Kinds of Carcinoma from the Biological Perspective. Turkish Physical Society 32nd International Physics Congress. 6-9 September 2016. Bodrum – TURKEY

C44. M. Yildiz, B. Demirkan, H.O. Tekin. An Investigation Study On Biological Effects Of Ionizing Radiation On Fetus. Turkish Physical Society 32nd İnternational Physics Congress. 6-9 September 2016. Bodrum – TURKEY

C45. H.O. Tekin, T. Manici, K.Yilancioglu. An Estimation With Artificial Neural Network (Ann) Modeling On Variation Of Bremsstrahlung Photon Flux By Considering Different Target Thicknesses By Using MCNP-X Code. International Conference On Computational And Experimental Science And Engineering. (İccesen2016) 19-24 October 2016. Kemer- Antalya TURKEY

C46. H.O. Tekin. Comparison Of Backscattered Dose Measurements In 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 In 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

C52. A. Zavagar, E.Mavili, B. Cavli, **H.O. Tekin**. Peripheral Angiography by Using Low Dose and Low Contrast. 19 th International Society of Radiographers and Radiological Technologists (ISRRT) World Congress. 20-22 October, 2016 SEOUL / S.KOREA

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, I. 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 B₂O₃ 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 (B₂O₃), 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 B₂O₃ 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 Bremsstrahlung 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 Bremsstrahlung 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 Bremsstrahlung 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, Hüseyin Ozan Tekin, Z.N. Demirci. Simulation studies on Bremsstrahlung 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, Hüseyin Ozan Tekin. Z.N. Demirci. Bremsstrahlung 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, Hüseyin Ozan 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. Hüseyin Ozan TEKİN, 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 MgB₂ 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) Targetfor Different Thicknesses. 4 rd InternationalConferance 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 atTARLA.4 rd İnternationalConferance Radiation interaction with Material and its Use inTechnologies, 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, İ. 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. Ü. 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)

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

G4. Assist. Prof. Dr. – UskudarUniversity (January-2015- June 2018) (TOTAL:3.5 YEARS)

Given Lectures: Medical Imaging Methods, Medical Imaging Physics, Radiation Protection, Radiobiology, Nuclear Medicin, Introduction to Radiotherapy

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

Given Lectures: Medical Imaging Methods, Medical Imaging Physics, Radiation Protection, Radiobiology, Nuclear Medicin, Introduction 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 / Present (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.

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- Nb₂O₅...”

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 (Eu³⁺, Sm³⁺, Nd³⁺) 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. "Sm₂O₃ effects on mass stopping power/projected range..."

Applied Physics A - Springer

- 51.** “Bioactive glasses and the impact of Si₃N₄...”
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 Gd₂O₃ 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. “Nd³⁺ ions doped TeO₂-V₂O₅...”

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 BiBr₃ and PbSO₄...”

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 Sb₂O₃ 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}Cf ...”
Radiation Physics and Chemistry – Elsevier
- 95.** “Ceramic Tiles Doped with Lead...”
Radiation Physics and Chemistry – Elsevier
- 96.** “Role of Ga_2O_3 addition on the radiation...”
Journal of Physics and Chemistry of Solids – Elsevier
- 97.** “UV-visible, EPR spectra, and gamma transmission studies on CaF_2 ...”
Optical Materials - Elsevier
- 98.** “Mixed alkaline earth of sodium borosilicate glasses: Preparation,...”
Optical Materials - Elsevier

99. “Production of micro-structured BaZrO₃...”

Journal of Physics and Chemistry of Solids – Elsevier

100. “Effect of Ag₂O/V₂O₅ substitution on the radiation shielding ability...”

Physica Scripta – IOP Science

101. “Optical, mechanical properties of TeO₂-CdO-PbO-B₂O₃ glass systems ...”

European Physical Journal Plus - Elsevier

Given Courses in last 10 years

Lecture Name	Department	University
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>