

Lect. PhD NESLİHAN SARIGÜL

Personal Information

Office Phone: [+90 312 780 7214](tel:+903127807214)

Fax Phone: [+90 312 297 6880](tel:+903122976880)

Email: nsarigul@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/nsarigul>

Education Information

Doctorate, Çukurova Üniversitesi, Fen Edebiyat Fakültesi, Fizik, Turkey 2010 - 2014

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Examination of general cavity theory for magnesium and titanium doped lithium fluoride (TLD-100) in bone and lung heterogeneities, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 2014

Research Areas

Biophysics, Radiation Oncology, Physics, Nuclear physics

Academic Titles / Tasks

Lecturer PhD, Hacettepe University, Nükleer Bilimler Enstitüsü, 2011 - Continues

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

- I. **Defect characterization in Bi₁₂GeO₂₀ single crystals by thermoluminescence**
Delice S., Isik M., SARIGÜL N., HASANLI N.
JOURNAL OF LUMINESCENCE, vol.233, 2021 (Journal Indexed in SCI)
- II. **NanoDot™ OSLDs in verifying radiotherapy dose calculations in the presence of metal implants: A Monte Carlo assisted research**
İspir Aydınlioğlu E. B. , Sarigül N., Yeğingil Z.
Radiation Physics And Chemistry, vol.11, pp.111-115, 2021 (Journal Indexed in SCI Expanded)
- III. **Urine analysis using FTIR spectroscopy: A study on healthy adults and children**
SARIGÜL N., Kurultak İ., Uslu Gökceoğlu A., Korkmaz F.
Journal of Biophotonics, 2021 (Journal Indexed in SCI)
- IV. **Thermoluminescence characteristics of Bi₁₂SiO₂₀ single crystals**
Sarigül N.

JOURNAL OF LUMINESCENCE, vol.224, pp.117280-117285, 2020 (Journal Indexed in SCI Expanded)

- V. **A practical method for quantifying dose in bone and lung using TLDs when using 6 and 15 MV photon beams.**
Sarigül N., Surucu M., Reft C., Malin M., Yeğingil Z., Ayadogan B.
Physics in medicine and biology, vol.65, 2020 (Journal Indexed in SCI)
- VI. **ENERGY RESPONSE FACTOR of BeO DOSEMETER CHIPS: A MONTE CARLO SIMULATION AND GENERAL CAVITY THEORY STUDY.**
Sarigul N., Surucu M., Aydogan B.
Radiation protection dosimetry, vol.185, pp.303-309, 2019 (Journal Indexed in SCI)
- VII. **A New Artificial Urine Protocol to Better Imitate Human Urine**
SARIGÜL N., Korkmaz F., Kurultak I.
SCIENTIFIC REPORTS, vol.9, 2019 (Journal Indexed in SCI)
- VIII. **Examination of general cavity theory for magnesium and titanium doped lithium fluoride (TLD-100) of varying thicknesses in bone and lung**
SARIGÜL N., Surucu M., Reft C., YEĞİNGİL Z., Aydogan B.
Radiation Measurements, vol.94, pp.1-7, 2016 (Journal Indexed in SCI)
- IX. **Study of thermoluminescence response of purple to violet amethyst quartz from Balıkesir, Turkey**
Nur N., YEĞİNGİL Z., TOPAKSU M., Kurt K., DOĞAN T., SARIGÜL N., YÜKSEL M., ALTUNAL V., ÖZDEMİR A. C. , Guckan V., et al.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.358, pp.6-15, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Determination of inflection points of CyberKnife dose profiles within acceptability criteria of deviations in measurements**
SARIGÜL N., YEDEKÇİ F. Y. , YEĞİNER M., Akyol F., UTKU H.
Reports of Practical Oncology and Radiotherapy, vol.25, no.1, pp.6-12, 2020 (Refereed Journals of Other Institutions)
- II. **Evaluation of NanoDot Optically Stimulated Luminescence Dosimeter for Cone-shaped Small-field Dosimetry of Cyberknife Stereotactic Radiosurgery Unit: A Monte Carlo Simulation and Dosimetric Verification Study.**
AKYOL F. Y. , SARIGUL N., YEGINER M., Yedekci Y., UTKU H.
Journal of medical physics, vol.44, pp.27-34, 2019 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Küçük alanlarda implant malzemelerin doz dağılımı üzerine etkisinin Monte Carlo yöntemiyle karşılaştırılması**
İspir B., SARIGÜL N.
National radiation oncology congress (UROG), Turkey, 27 April - 01 May 2018
- II. **Design Simulation of a Low Radiation Dose Producing Device**
SARIGÜL N.
International Conference on Monte Carlo Techniques for Medical Applications (MCMA2017), 15 - 18 October 2017
- III. **A Monte Carlo Evaluation of Flattening-Filter-Free MV Photon Dose Distributions in the Presence of High-Z Metals**
İspir B., SARIGÜL N., Yenice K., Schlattl H., YEĞİNGİL Z.
59th Annual Meeting and Exhibition of the American-Association-of-Physicists-in-Medicine (AAPM), Colorado, United States Of America, 30 July - 03 August 2017, vol.44, pp.2910

- IV. **OSL DOZİMETRELERİN KÜÇÜK ALAN DOZİMETRESİ OLARAK KULLANIMININ TEST EDİLMESİ**
SARIGÜL N., YEDEKÇİ F. Y. , YEĞİNER M., AKYOL H. F. , UTKU H.
XI.Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, KUŞADASI, Turkey, 12 - 14 October 2016
- V. **ELECTRON SPECTRUM EFFECT ON LIF RESPONSE TO 6 MV PHOTON BEAM USING MONTE CARLO AND BURLIN CAVITY THEORY**
SARIGÜL N.
RAD 2015, 8 - 12 June 2015
- VI. **Prediction of the accuracy of Burlin Cavity Theory for LiF Mg Ti TLD 100 dosimeter in inhomogeneous medium**
SARIGÜL N.
International Conference On Luminescence And Esr Dosimetry, 27 - 29 August 2014
- VII. **Comparison of the energy response factor of LiF MgTi Al2O3 C and BeO detectors in kilovoltage and megavoltage photon beams using cavity theory**
SARIGÜL N., PORTAKAL Z. G.
International Conference On Luminescence And Esr Dosimetry, 27 - 29 August 2014
- VIII. **Examination of General Cavity Theory for Lithium Fluoride TLDs in Bone and Lung Heterogeneities**
Sarigul N., Surucu M., Reft C., Aydogan B.
54th Annual Meeting and Exhibition of the American-Association-of-Physicists-in-Medicine (AAPM), Charlottetown, Canada, 29 July - 02 August 2012, vol.39, pp.4011
- IX. **Initial Clinical experience with linac based intensity modulated total marrow irradiation IM TMI**
SARIGÜL N.
UIC College of Dentistry Clinic and Research Day, 8 - 09 March 2012

Supported Projects

SARIGÜL N., Project Supported by Higher Education Institutions, CBCT cihazının kalite güvencesi çalışmalarında uygulanacak düzeltme faktörlerinin MC ve BeO OSLd ile belirlenmesi, 2016 - 2018
SARIGÜL N., UTKU H., YEĞİNER M., TUBITAK Project, Cyberknife SRS SBRT Sisteminin OSL Tabanlı Küçük Alan Dozimetrisi, 2014 - 2016

Citations

Total Citations (WOS):7

h-index (WOS):2