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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. **Thermoluminescence characteristics of Bi₁₂SiO₂₀ single crystals**
Sarigül N.
JOURNAL OF LUMINESCENCE, vol.224, pp.117280-117285, 2020 (Journal Indexed in SCI Expanded)
- II. **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, 2020 (Journal Indexed in SCI)
- III. **ENERGY RESPONSE FACTOR of BeO DOSEMETER CHIPS: A MONTE CARLO SIMULATION AND GENERAL CAVITY THEORY STUDY.**
Sarigül N., Surucu M., Aydogan B.
Radiation protection dosimetry, vol.185, pp.303-309, 2019 (Journal Indexed in SCI)
- IV. **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)

V. **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)

VI. **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, 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**

Ispir 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

Citations

Total Citations (WOS):4

h-index (WOS):1