

CURRICULUM VITAE (CV)

Name : Prof. Dr. Niyazi MERİÇ
Date of Birth: 05.04.1961
Position: In 20 August 2021, retired on his own accord from his position as the Director of the Institute of Nuclear Sciences at Ankara University.
Nationality: Turkish
Web Pages: <https://niyazimeric.com>

Niyazi Meriç was born in Niksar/Tokat on April 3, 1961. After completing his primary and secondary education in Niksar he attended and graduated from Istanbul Kabatas High School in 1979 and later on graduated from Department of Physics at the Faculty of Science in Ankara University in 1985. After joining the army to perform the military service in Ankara Etimesgut Armor Unit School and Training Division Command Post he then finished his post graduate education in 1990 and obtain his Phd in 1995 in the Department of Physics at Ankara University Graduate School of Natural and Applied Sciences.

In Department of Physics at Ankara University, he became a research assistant in 1986 and then teaching assistant in 1995. In 2000, he became assistant professor in the Department of Physics Engineering at the Faculty of Engineering. in 2011, he became associate professor and in the same year, he went to Jiao Tong University in Shanghai as visiting fellow. In 2016, he became Professor.

Having huge number of studies both in national and international level Niyazi Meriç also educated lots of graduate and PhD students. In 2000 he constituted Dating Research Laboratory. During the years of 2001-2004 he became a member of board at Faculty of Engineering and 2001-2002 he became the president of the Commission of Computer at Department of Physics. In 2002-2005, he became the vice president at Ankara University Continuing Education Center; in 2001-2005, he became the member of board at Engineering Faculty; In 2021-2021 years University senate members. During 2012-2019, he was a member of board at Earth sciences Research and Application Center, and during 2013-2021, he was a member of supreme boards at Ankara University Radiation Safety and the president of the Committee of Facilities. In **20 August 2021**, he decided to retire on his own accord from his position as the Director of the Institute of Nuclear Sciences at Ankara University.

Education:

- Ankara University, Faculty of Science, Department of Physics, Bachelor Degree, 1985
- Ankara University, Ankara University, Graduate School of National and Applied Sciences, Master Degree, 1990
 - MSc. Thesis: Determination of Amount of Elements by Neutron Activation Analysis.
- Ankara University, Ankara University, Graduate School of National and Applied Sciences, Ph.D. Degree, 1996

- *Ph.D. Thesis:* Application of Monte Carlo Calculations to Scatter Fraction & Dose Measurement.

Research Areas:

- **Dating:** Luminescence dating of archeological and geological samples methods.
- **Retrospective Dosimetry:** Using luminescence techniques to determine the dose of radiation after the nuclear accident.
- **Dosimetry:** Patient and the environment to determine the radiation dose.
- **Monte Carlo Simulation Technique:** Mathematical phantom and patient doses calculated using the Monte Carlo method.

Publications (Total 60):

- Sümeyra Can, Eren Sahiner, Didem Karaçetin, **Niyazi Meriç**, “Developing a new Monte Carlo algorithm as an alternative tool to simulate virtual source model on an Elekta Versa HD Linac”, Volume 15, Issue 3, September (2022), Pages 299-308, Journal of Radiation Research and Applied Sciences.

<https://doi.org/10.1016/j.jrras.2022.07.009>

- Sümeyra Can, Didem Karaçetin, **Niyazi Meriç**, “Beam modeling and commissioning for Monte Carlo photon beam on an Elekta Versa HD LINAC”, Volume 180, February (2022), 110054, Applied Radiation and Isotopes

<https://doi.org/10.1016/j.apradiso.2021.110054>

- J.M. Kalita a, , Ş. Kaya Keles, G.O. Çakal , **N. Meriç** , G.S. Polymeris, “Thermoluminescence and optically stimulated luminescence of colemanite-rich borate mineral”, (2022), Journal of Luminescence, Volumu 242, 118580.

<https://doi.org/10.1016/j.jlumin.2021.118580>

- Aydin Ghalehasadi, Saleh Ashrafi, Davood Alizadeh, **Niyazi Meriç**, “Gamma ray interactions based optimization algorithm: Application in radioisotope identification”, Nuclear Engineering and Technology (2021), Volume 53, Issue 11, Pages 3772-3783.

<https://doi.org/10.1016/j.net.2021.05.018>

- Aydin Ghalehasadi, Eren Şahiner, Saleh Ashrafi, Sasan Geranmayeh, Hadi kasani & **Niyazi Meriç**, “Photoneutron dose and flux determination of a typical LINAC by MCNP simulation” (2021) Volume 5, issue 4, Radiation Detection Technology and Methods, pages 627 – 632.

<https://doi.org/10.1007/s41605-021-00294-1>

- Geranmayeh, S., Şahiner, E., Aşlar, E., Polymeris, G.S., & **Meriç, N.** “Comparison of stimulated luminescence properties of various porcelain-based items from Turkey towards prevalent features for retrospective dosimetry.” (2021), Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms. Volume 499, 15 July 2021, Pages 89-99

- <https://doi.org/10.1016/j.nimb.2021.05.007>

- **Meriç,N.,Şahiner,E.,Kitis,G. & Polymeris,G.** “Component-resolved analysis towards correlation between thermoluminescence and optically stimulated luminescence in commercial magnesium oxide.” (2021), Geochronometria, (*Conference Proceedings of the 5th Asia Pacific Luminescence and Electron Spin Resonance Dating Conference October 15th-17th, 2018, Beijing, China*)

- <https://doi.org/10.2478/geochr-2020-0011>

- Aşlar, E., Şahiner, E., Polymeris, G.S., & Meriç, N. “Thermally and optically stimulated luminescence properties of BeO dosimeter with double TL peak in the main dosimetric region.” (2021), Applied radiation and isotopes : including data, instrumentation and methods for use in agriculture, industry and medicine, 170, 109635 .

- <https://doi.org/10.1016/j.apradiso.2021.109635>

-G.S. Polymeris, S. Çoskun, E. Tsoutsoumanos, P. Konstantinidis, E. Aşlar, E. Şahiner, **N. Meriç**, G. Kitis. “Dose response features of quenched and reconstructed, TL and deconvolved OSL signals in BeO” , **(2021)**, Results in Physics 25, 104222.

○ <https://doi.org/10.1016/j.rinp.2021.104222>

-J.M. Kalita, Ş.Kaya-Keleş, G.Ö. Çakal, **N. Meriç**, G.S. Polymeris, “Thermoluminescence and optically stimulated luminescence properties of ulexite mineral” , **(2021)**, Journal of Luminescence 117759.

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- Engin Aşlar, Eren Şahiner, George S. Polymeris, **Niyazi Meric**, “Feasibility of determining Entrance Surface Dose (ESD) and mean glandular dose (MGD) using OSL signal from BeO dosimeters in mammography”, **(2020)**, Radiation Physics and Chemistry 177,pp:1-5

○ <https://doi.org/10.1016/j.radphyschem.2020.109151>

- Eren Şahiner, Georgios S. Polymeris, M. Altay Atlıhan, Selçuk Aktürk, **Niyazi Meriç**, “Indirect dating of an olive tree planting event using luminescence of the sediments lying beneath the roots of the tree: a pilot study in the southwestern part of Anatolia, Turkey” , **(2020)**, Journal of Quaternary Science, pp: 1-10.

○ <https://doi.org/10.1002/jqs.3212>

- George S.Polymeris, Miray Başdoğan, Gaye Ö.Çakal, Engin Aşlar, **Niyazi Meriç**, “Gamma dose rate effects in luminescence signals of various artificial, well established dosimetric phosphors” **(2020)**, Radiation Measurements; Volume 133; 106282.

○ <https://doi.org/10.1016/j.radmeas.2020.106282>

- Şule Kaya Keleş, George S.Polymeris, Burak Perçinler, **Niyazi Meriç**. “Dealing with non-conventional LM-OSL curve shapes in quartz following bleaching; a deconvolution approach” **(2020)**. Journal of Luminescence, Volume 220, 117026.

○ <https://doi.org/10.1016/j.jlumin.2020.117026>

- Ozdemir, A., Polymeris, G. S., Şahiner, E., Aşlar, E., Guckan, V., Altunal, V., **Meriç, N.** & Yegingil, Z. “Evaluation of thermoluminescence trapping parameters in Li₂B₄O₇ co-doped with Ag⁺ and Gd³⁺ using

various experimental techniques.” (2019), Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 461, 70-76.

- <https://doi.org/10.1016/j.nimb.2019.09.021>

- Erturaç, M. K., Şahiner, E., Zabcı, C., Okur, H., Polymeris, G. S., **Meriç, N.**, & İkiel, C. “Fluvial response to rising levels of the Black Sea and to climate changes during the Holocene: Luminescence geochronology of the Sakarya terraces.” (2019), The Holocene, 29(6), 941-952.

- <https://doi.org/10.1177/0959683619831428>

- Şahin, S., Şahiner, E., Göksel, F., & **Meriç, N.** . “Comprehensive evaluation of electron radiation dose using beryllium oxide dosimeters at breast radiotherapy.” (2019), Journal of Radiotherapy in Practice, 1-7.

- <https://doi.org/10.1017/S1460396919000190>

- Kaya-Keleş, Ş., Polymeris, G. S., & **Meriç, N.** . “A component resolved study on the stable signal of Merck α -quartz: Tentative correlation among TL peaks, OSL components and EPR signals.” (2019), Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 458, 44-56.

- <https://doi.org/10.1016/j.nimb.2019.07.029>

- Erginal, A. E., Polymeris, G. S., Karataş, A., Giannoulatou, V., Şahiner, E., **Meriç, N.**, Erenoğlu, O., Selim, H.H. & Karabıyıkoglu, M. “Raised braided stream gravels on Mount Keldağ, Hatay (Eastern Mediterranean coast, Turkey): implications of transformation to beachrock and ensuing tectonic uplift.” (2019), Mediterranean Geoscience Reviews, 1(1), 45-53.

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- Engin Aşlar, **Niyazi Meriç**, Eren Şahiner, Onur Erdem, George Kitis, George S. Polymeris. “A correlation study on the TL, OSL and ESR signals in commercial BeO dosimeters yielding intense transfer effects”, (2019), Journal of Luminescence, Volume 214, 116533.

- <https://doi.org/10.1016/j.jlumin.2019.116533>

- Angeli, V., Kitis, G., Polymeris, G., Şahiner, E., & **Meriç, N.** Component-resolved bleaching correlation between OSL and IRSL signals in various geological materials. **(2019)**; *Applied Radiation and Isotopes*, 143, 156-162.
 - <https://doi.org/10.1016/j.apradiso.2018.10.018>
- Polymeris, G. S., Şahiner, E., Aşlar, E., Kitis, G., & **Meriç, N.** Deconvolution of isothermal TA – OSL decay curves from sedimentary quartz using combinations of various contemporary models. **(2018)**, *Radiation Measurements*, 119, 93-101.
 - <https://doi.org/10.1016/j.radmeas.2018.09.009>
- **Meriç, N.**, Aşlar, E., Şahiner, E., Kadioğlu, Y. K., Polymeris, G. S., Step annealing and fading studies on EPR signals of Durango apatite for various grain size fractions at the edge of the nano-scale; comparison with the corresponding luminescence results. **(2018)**, *Radiation Measurements*. 120, 241-246.
 - <https://doi.org/10.1016/j.radmeas.2018.05.001>
- Şahiner, E., Erturaç, M. K., Polymeris, G. S., **Meriç, N.** Methodological studies on integration time interval's selection for the luminescence ages using quartz and feldspar minerals; sediments collected from Sakarya, Turkey. **(2018)**, *Radiation Measurements*. 120, 163-169.
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- Polymeris, G. S., Şahiner, E., Kadioğlu, Y. K., **Meriç, N.** Properties of quartz TA–OSL signal with a peculiar decay shape for SAR TA–OSL applications. **(2018)**, *Radiation Measurements*, 120, 176-180.
 - <https://doi.org/10.1016/j.radmeas.2018.04.002>
- Engin Aşlar, Eren Şahiner, George S. Polymeris, **Niyazi Meriç**, “Determination of trapping parameters in BeO ceramics in both quenched as well as reconstructed thermoluminescence glow curves using various analysis methods”, *Applied Radiation and Isotopes*, November (2017). Volume 129, pages 142-151.
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- Engin Aşlar , **Niyazi Meriç**, Eren Sahiner, George Kitis, George S. Polymeris, “Calculation of thermal quenching parameters in BeO ceramics using solely TL measurements” *Radiation Measurements*, August (2017), Volume 103, Pages 13-25.
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- Eren Şahiner , George Kitis, Vasilis Pagonis, **Niyazi Meriç**, George S. Polymeris, “Tunnelling recombination in conventional, post-infrared and post-infrared multi-elevated temperature IRSL signals in microcline K-feldspar” (**2017**), Journal of Luminescence, Volume 188, August 2017, Pages 13-25.
 - <https://doi.org/10.1016/j.jlumin.2017.05.010>
- Şahiner, E., **Meriç, N.**, Polymeris, G. S. . “Thermally assisted OSL application for equivalent dose estimation; comparison of multiple equivalent dose values as well as saturation levels determined by luminescence and ESR techniques for a sedimentary sample collected from a fault gouge”, (**2017**) Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 392,21-30.
 - <http://dx.doi.org/10.1016/j.nimb.2016.12.001>
- G.S. Polymeris, V. Giannoulatou, A. Kyriakidou, I.K. Sfampa, G. Theodorou, E. Şahiner, **N. Meric**, G. Kitis, K.M. Paraskevopoulos, “Bioactivity characterization of 45S5 bioglass using TL, OSL and EPR: Comparison with the case of 58S sol-gel bioactive glass”, **January (2017)** Materials Science & Engineering C, Volume 70 , Pages 673–680.
 - <http://dx.doi.org/10.1016/j.msec.2016.09.051>
- Tanır, G., Güleç, Ö., Şahiner, E., Bölükdemir, M. H., Koç, K., **Meriç, N.**, & Keleş, Ş. K. “Direct Determination of Radiation Dose in Human Blood.” (2016), NeuroQuantology, Volume: 14(1). Page 28-35.
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- Şule Kaya Keleş, **Niyazi Meriç**, George S. Polymeris, “Dose response on the 110 °C thermoluminescence peak of un-heated, synthetic Merck quartz”, July (2016), Physica B: Condensed Matter, Volume 493, Pages 17–24. WOS:000377025700005
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- G. Kitis, G.S. Polymeris, E. Sahiner, **N. Meric**, V. Pagonis, “Influence of the infrared stimulation on the optically stimulated luminescence in four K-feldspar samples”, Journal of Luminescence, August (2016), Volume 176, Pages 32–39.

- [doi:10.1016/j.jlumin.2016.02.023](https://doi.org/10.1016/j.jlumin.2016.02.023)
- **Niyazi Meriç**, **Eren Şahiner**, **Georgios S. Polymeris**, “Thermally assisted OSL (TA-OSL) reproducibility in Al₂O₃:C and its implication on the corresponding thermoluminescence (TL) reproducibility”, *Radiation Measurements* (2016), Volume 90, Pages 269 - 273.
 - [doi:10.1016/j.radmeas.2015.12.015](https://doi.org/10.1016/j.radmeas.2015.12.015)
- G. Kitis, G.S. Polymeris, M. Prokic, **N. Meric**, V. Pagonis, “Prompt isothermal decay of thermoluminescence in MgB₄O₇:Dy,Na and LiB₄O₇:Cu,In dosimeters” *Radiation Measurements*, January (2016), Volume 84, Pages 15-25.
 - [doi:10.1016/j.radmeas.2015.11.002](https://doi.org/10.1016/j.radmeas.2015.11.002)
- Eren Şahiner, **Niyazi Meriç** , George S. Polymeris, “Impact of different mechanical pre-treatment to the EPR signals of human fingernails towards studying dose response and fading subjected to UV exposure or beta irradiation” *Radiation Measurements*, November (2015), Volume 82, pages 40-46.
 - [doi:10.1016/j.radmeas.2015.08.005](https://doi.org/10.1016/j.radmeas.2015.08.005)
- Serdar ŞAHİN, A. Güneş TANIR, **Niyazi MERİÇ** , Ercan AYDINKARAHALİLOĞLU. “Measurement of radiation dose with BeO dosimeters using optically stimulated luminescence technique in radiotherapy applications”. *Applied Radiation and Isotopes*, September (2015). Volume 103, pages 31-36.
 - [doi:10.1016/j.apradiso.2015.05.013](https://doi.org/10.1016/j.apradiso.2015.05.013)
- Georgios S. Polymeris, Eren Şahiner, **Niyazi Meriç**, George Kitis. “Thermal assistance in TA - OSL signals of feldspar and polymineral samples; comparison with the case of pure quartz”. *Radiation Measurements*, October (2015) Volume 81, Pages 270-274.
 - [doi:10.1016/j.radmeas.2014.12.013](https://doi.org/10.1016/j.radmeas.2014.12.013)
- **Niyazi Meriç**, Eren Şahiner, Aytaç Baris, George S. Polymeris “Thermoluminescence Properties of Irradiated Commercial Color Pencils for Accidental Retrospective Dosimetry” *Applied Radiation and Isotopes*, May (2015), Volume 99, pages 97-104.

- [doi:10.1016/j.apradiso.2015.02.022](https://doi.org/10.1016/j.apradiso.2015.02.022)
- **Niyazi Meriç**, Ülkü Rabia Yüce, Eren Şahiner, Aristis Damianidis, George S. Polymeris “Dose response and fading studies on de-proteinated tooth enamel after de-convolution using the sum of general order kinetics and a component for tunnelling recombination” Radiation Measurements, October (2015) Volume 81, Pages 257-261.
 - [doi:10.1016/j.radmeas.2014.12.003](https://doi.org/10.1016/j.radmeas.2014.12.003)
- Georgios S. Polymeris, Eren Şahiner, **Niyazi Meriç**, George Kitis “Experimental features of natural thermally assisted OSL (NTA-OSL) signal in various quartz samples; preliminary results “ Nuclear Inst. and Methods in Physics Research, B April (2015), Volume 349, Pages 24-30.
 - [doi:10.1016/j.nimb.2015.01.079](https://doi.org/10.1016/j.nimb.2015.01.079)
- E. Şahiner, **N. Meriç**, G. S. Polymeris, “Assessing the impact of increasing temperature IR stimulation to the OSL signal of quartz”, Radiation Measurements, September (2014), Volume 68, Pages 14-22.
 - [doi:10.1016/j.radmeas.2014.06.006](https://doi.org/10.1016/j.radmeas.2014.06.006)
- E. Şahiner, **N. Meriç** , “A trapezoid approach for the experimental total-to-peak efficiency curve used in the determination of true coincidence summing correction factors in a HPGe detector”, Radiation Physics and Chemistry March (2014), Volume 96, Pages 50–55.
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- M. Doğan, **N. Meriç** , “650 nm laser stimulated dating from SIDE Antique Theatre, TURKEY”, Radiation Physics and Chemistry March (2014), Volume 96, Pages 60–68.
 - [doi:http://dx.doi.org/10.1016/j.radphyschem.2013.08.011](http://dx.doi.org/10.1016/j.radphyschem.2013.08.011)
- E. Şahiner, **N. Meriç** and S. Uygun, "Luminescence (IRSL) dating of Yeni Rabat Church in Artvin, Turkey", Radiation Physics and Chemistry May (2013), Volume 86, PP 68–73.
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- E. Şahiner and **N. Meriç**, "Infrared Stimulated Luminescence (IRSL) properties of natural aluminum corrosion", Geochronometria September (2012), Volume 39, Number 3, 227-232.
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- Ç. Güneş, **N. Meriç**, "Comparison of Sample Preparation Techniques Used in Luminescence Dating Methods", Çankaya University Journal of Science and Engineering (2011), Volume 8, No. 1, PP. 15-25.
- M. Doğan, **N. Meriç**, Yusuf Kagan Kadioğlu, Refik Samet , "Gis Approach to Radioactive Contamination Around Seyitömer Thermic Powerhouse", Journal of Science (2010), 21(2); pp 33-36.
- U. R. Yuce , **N. Meriç**, O. Atakol, F. Yaşar. "dose response of hydrazine- deproteinated tooth enamel under blue light stimulation", Radiation Measurements (2010), 45(7); pp 797–800. [Tübitak Project -T-BAG
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- **N. Meriç**, M. A. Atlıhan, M. Koşal, U. R. Yüce , A. Çınaroğlu. "Infrared Stimulated Luminescence and Thermoluminescence Dating of Archaeological Samples from Turkey", Geochronometria (2009), 34 , pp 25-31. [Tübitak_Project-T-BAG-108T042].
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- **N. Meriç**, M. Koşal, M. A. Atlıhan, U. R. Yuce. "OSL properties of anthropological bone and tooth", Radiation Physics and Chemistry (2008), Vol. 77 No: 6, pp. 685-689.
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- **N. Meriç**, U. R. Yuçe, E. T. Ilgit. “Radiation dose in balloon dacryocystoplasty: a study using rando phantoms and thermoluminescent dosimetry”, Diagnostic and Interventional Radiology (2005), Vol.11, pp.166 – 169.
- G. Tanır, **N. Meriç**, H. Aytekin, Ş. Okuducu. "A fitting procedure for palaeodose from old sandstone using IRSL", Czechoslovak Journal of Physics (2004), Vol. 54 No:9, pp. 941–946.
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- E.T. Ilgit, **N. Meric**, D. Bor, I. Öznur, Ö.Konus, S.İşık. “Lens of the Eye: Radiation Dose in Balloon Dacryocystoplasty”, Radiology (2000), Vol. 217 No: 1, pp. 54–57.
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- **N. Meriç**, D. Bor, N.Buget. "Determination of scatter fractions of some materials by experimental studies and Monte Carlo calculations", Applied Radiation and Isotopes (1999), Vol. 52 No:2, pp. 161-167.
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- H.Aktaş, N.Büget, A.K.Çifçi, **N. Meriç**, S. Sultansoy, Ö. Yavaş. "New Tool "Old" Nuclear Physics: FEL g-Nucleus Colliders", Nuclear Instruments and methods in physics research section A. (1999), Vol.428 No:2–3, 271–275.
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- **N. Meriç**, D. Bor, E.T. Ilgit, İ.İ. Öznur, N. Büget. "Comparison of eye lens dose measurement techniques in imaging and interventions of the lacrimal drainage system", Physica Medica (1998), Vol.14 No: 3 pp. 95–100.
- **N. Meriç**, D. Bor, N. Buget, M. Özkırlı. "The use of Monte Carlo technique for the determination of tissue-air ratios in diagnostic energy range", Physica Medica (1998), Vol.14 No:1,pp.3–8.

Other Publications (Total 11):

- Eren Şahiner, Mehmet Korhan Erturaç, **Niyazi Meriç** , “Termal-Asistan Optik Uyarmalı Lüminesans (TA-OSL) Tekniğiyle Milyon Yıl Mertebesindeki Jeolojik Örneklerin Tarihlendirilmesi: Gediz Taraçaları, Kula/Manisa” Türkiye Jeoloji Bülteni, 60 (2017) 489-506.
doi:10.25288/tjb.360609
<http://dergipark.gov.tr/tjb/issue/32291>
- Mustafa Doğan, Eren Şahiner, **Niyazi Meriç**, “An Experimental Study Related to Dose Scattering on the Routinely Used Minerals with Comparison of Grain Sizes and Disks Materials”, Çankaya University Journal of Science and Engineering, Volume 13, No. 2 (2016) pp: 054-063
- M. Doğan, **N. Meriç**. "Adli Tıp Amaçlı Olarak Genç Toprak Örneklerinin Tarihlendirilmesinde Optik Uyarımlı Lüminesans Yönteminin Kullanılması", Adli Bilimler Dergisi (Turkish Journal of Forensic Sciences.) Volume 11, No: 4, pp: 19-23. 2012.
- Mustafa Doğan, **Niyazi Meriç**, “Usage of Optically Stimulated Luminescence in Dating in Inorganic Materials” Turkish Journal of Forensic Sciences, 2014
- M. Doğan, **N. Meriç**. "Adli Tıp Amaçlı Olarak Genç Toprak Örneklerinin Tarihlendirilmesinde Optik Uyarımlı Lüminesans Yönteminin Kullanılması", Adli Bilimler Dergisi (Turkish Journal of Forensic Sciences.) Volume 11, No: 4, pp: 19-23. 2012.

- Ç. Güneş, **N. Meriç**, "Comparison of Sample Preparation Techniques Used in Luminescence Dating Methods" Çankaya University Journal of Science and Engineering, 2011.
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- **N. Meriç**. "Arkeolojik Alanlarda Lüminesans Yöntemlerle Tarihlendirme". 6 Kasım 2009 Eskişehir, Anadolu Üniversitesi, Edebiyat Fakültesi. **Panalist ve Çağrılı Konuşmacı.**
- **N. Meriç**. "Bir maddeyi geçen radyasyonun şiddetindeki azalma" LUMIDOZ I Toplantısı, Ankara - ODTÜ Fizik Bölümü, 10-12 Eylül 2007, **Çağrılı konuşmacı.**
- **N. Meriç**. "OSL (Optik Uyarımlı Lüminesans) Yöntemi ile tarihlendirme" V. Anadolu Adli Bilimler Kongresi, SAMSUN, 08 - 10 Eylül 2006. **çağrılı konuşmacı ve panelist.**

- **N. Meriç.** “Topraktan Yapılmış Arkeolojik Buluntuların ve İskeletlerin OSL (Optik Uyarmalı Luminesans) Yöntemi İle Tarihlendirilmesi” III. Kapadokya Adli Bilimler Sempozyumu (Adli Antropoloji), 17-19 Kasım 2006, Avanos, **çağrılı konuşmacı.**
- **N. Meriç.** “Nükleer Silahlar ve Tehditin Değerlendirmesi” Nükleer, Biyolojik ve Kimyasal Silahlar (NBC) Sempozyumu, Çorlu, Mayıs, 2005. **çağrılı konuşmacı.**
- **N.Meriç,** “The Role of Computer-Based Educational Laboratories in Nuclear Engineering University Programmes”, National Research Nuclear University “MEPhI” , 17-19 March 2015 , Moscow. Russian Federation.
- **N. Meriç,** Ulusal ve Uluslararası Boyutları ile Doktora Eğitimi Çalıştayı, Davetli, 20-21 Mayıs 2014, İstanbul
- **N. Meriç,** “the 4th International Conference on Superconductivity and Magnetism” (ICSM2014), invited, April 27th, 2014 Antalya – Turkey.
- **N. Meriç.** “Nuclear Energy Development Summit 2013”, invited, Eastern Europe, Turkey and Middle East 21 – 22 November 2013, İstanbul – Turkey.
- **N. Meriç.** “7th Asian Conference on Applied Superconductivity and Cryogenics (ACASC2013)”, invited, 23 Ekim 2013, Nevşehir - Turkey, 2013.

International Activities:

- II. International Nuclear Summer school, (Kyiv/Chornobyl NPP/Rivne NPP) UKRAINE. **Coordinator and Chairman of the Organizing Committee**, 1-7 July 2019, Kiev, Ukraine.
[\(http://nukbilimler.ankara.edu.tr/events/ii-uluslararasi-nukleer-yaz-okulu/;](http://nukbilimler.ankara.edu.tr/events/ii-uluslararasi-nukleer-yaz-okulu/) [http://meetings-nbe.ankara.edu.tr\)](http://meetings-nbe.ankara.edu.tr)
- International Nuclear Summer school, **Coordinator and Chairman of the Organizing Committee**, 13-21 July 2018, Odessa and Zaporizhzhya, Ukraine.
[\(http://nukbilimler.ankara.edu.tr/2018-uluslararasi-nukleer-yaz-okulu/;](http://nukbilimler.ankara.edu.tr/2018-uluslararasi-nukleer-yaz-okulu/) [http://meetings-nbe.ankara.edu.tr\)](http://meetings-nbe.ankara.edu.tr)
- Turkey-Ukraine Nuclear Education Cooperation Workshop, **Coordinator and Chairman of the Organizing Committee**, 20-21 February 2017, Ankara University Tandogan Campus, [http://meetings-nbe.ankara.edu.tr\)](http://meetings-nbe.ankara.edu.tr)
- International Conference on Luminescence and ESR Dosimetry (LumiDoz 8), Ankara University, 27 – 29 August 2014, **Chairman of the Organizing Committee.**
- The Abdus Salam International Centre for Theoretical Physics (2008) Workshop on Nuclear Reaction Data for Advanced Reactor Technologies.

- The Abdus Salam International Centre for Theoretical Physics (2006) Nuclear Structure and Decay Data: Theory and Evaluation.
- The Abdus Salam International Centre for Theoretical Physics (2003); College on Medical Physics.

Fellowships:

- (2011) Post-Doctoral Research Abroad Fellowship (12 months) / TUBITAK.

Concluded Project:

- Investigation of dose limits of beryllium oxide (BeO) luminescence dosimeters and usage in mammography systems, Ankara University Scientific Research (BAP) Projects, Project Code:18B020400, Coordinator: **Prof. Dr. Niyazi Meriç**, Researchers: Engin Aşlar, Dr. Georgios Polymeris, Dr. Eren Şahiner, 2018-2019.
- Age limit extension and simplification of sample preparation on luminescence dating applications using thermally assisted optically stimulated luminescence (TA-OSL) signals from Very Deep Traps (VDT) of natural minerals. The Scientific and Technological Research Council of Turkey 1002 Project, Project code: 117Y208. Coordinator: Dr. Eren Şahiner, Researchers: **Prof. Dr. Niyazi Meriç**, Dr. Georgios. S. Polymeris.
- Assessment of radiation dose out-of-field at additional treatment of breast cancer with high energy electrons used in radiotherapy applications using luminescence techniques , Ankara University Scientific Research Projects, Project code: 17B0204001 Duration: 03.07.2017, – , Coordinator: Dr. Eren Şahiner, Researchers: **Prof. Dr. Niyazi Meriç**, Specialist Dr. Fatih Göksel, Serdar Şahin
- Evaluating the dose distribution differences other than the treatment volume in patients receiving radiotherapy according to the treatment devices and techniques by in vivo dose measurements, The Scientific and Technological Research Council of Turkey, Project code: 213S029, Coordinator: Prof. Dr. Ayşe Hiçsönmez, Researchers: Prof. Dr. Yıldız Güney, **Prof. Dr. Niyazi Meriç**, Specialist Dr. Ayşen Dizman, 2014-2016
- Development of Luminescence (TL/OSL) dating: Applications to quaternary sediments and ceramics, TUBITAK-214M014, Morocco Project, **Director**, 2015-2016.
- Development of Using as retrospective dosimeter and dating of human teeth with Optically Stimulated Luminescence (OSL) and Thermoluminescence (TL) Techniques TUBITAK [TBAG - 108T042], **Director**, 2008 - 2010.
- The Dating of Some Archaeologic Traces in Anatolia by Luminescence Method A.Ü. Graduate School of Natural and Applied Sciences. **Director**, (2008) 2005K120140-BİYEP.
- Optically Stimulated Luminescence and Thermoluminescence Dating of Necropol from Turkey, **Director**, (2007) [TURKISH HISTORICAL SOCIETY].

- The Dating of Different Earthquake Traces in Kocadere Trench at Fault of Pamukkale Through Optically Stimulated Luminescence (OSL), **Director**, (2005-2006). TUBITAK [ÇAYDAG -105Y006].
- Dating the Different Earthquake Traces in the Kocedere Trench of Pamukkale Fault by Optically Stimulated Luminescence (OSL) Method, **Director**, 2006, Ankara Üniversitesi (BAP- 2006074501)
- An Approach for obtaining the transmitted radiation intensity through a scatterer, **Director**, (2001-2003) TUBITAK- [TBAG-2032 (101T053)].

Ph.D. Thesis: (2 students continue)

- **Sümevra Can**; (Thesis Stage); "Development of Monte Carlo dose calculation algorithm in radiotherapy"; **Co-Advisor**: Doç. Dr. Didem Karaçetin; Ankara University, Institute of Nuclear Sciences.
- **Şule Kaya Keleş**; (2020) " Investigation of radiation induced defects of natural quartz: A combined TL, OSL AND EPR study", **Co-Advisor**: George S. Polymeris; Ankara University, Institute of Nuclear Sciences.
- **Engin Aşlar**; (2020); " Correlation of BeO Dosimeters Between TL, OSL and ESR Techniques and Investigation of Usage In Mammography Systems", **Co-Advisor**: George S. Polymeris; Ankara University, Institute of Nuclear Sciences.
- **Eren Şahiner (2015)** (TL/OSL and ESR methods used in paleoseismology studies: Kütahya-Simav and North Anatolian Fault Zone), Ankara University, Graduate School of National and Applied Sciences.
- **Mustafa Doğan (2014)** (Determination of equivalent doses in quartz, feldspar minerals with pulsed laser stimulation and pulsed led stimulation) , Ankara University, Graduate School of National and Applied Sciences.
- **Ülkü Rabia YÜCE (2010)** (Development of Using Tooth and Bone Samples as Retrospective Dosimeter in Luminescence Techniques) , Ankara University, Graduate School of National and Applied Sciences.
- **Mehmet KOŞAL (2009)** (The Dating of Some Archaeologic Traces in Anatolia by Luminescence Method), Ankara University, Graduate School of National and Applied Sciences.
- **M. Altay Atlıhan (2008)** (The Examination of Some Fault Lines at The Aegean Graben System With Luminescence Method), Ankara University, Graduate School of National and Applied Sciences.

MSc. Thesis:

- **Duygu Yavuz (2020)**, "Investigation of different tube voltage effect on effective dose and image quality for chest radiography with a digital radiography system", Ankara University, Institute of Nuclear Sciences.
- **Fatma Çağlıdabakgil (2019)**; "Comparison of IAEA Protocols TRS 277 and TRS 398 and Determination of Dose Correction Coefficient Between Water Phantom and Solid Phantom Used in Radiotherapy Dose Calculations for Therapy Level Dosimetry Systems"; **Co-Advisor**: Dr. Çiğdem YILDIZ; Ankara University, Institute of Nuclear Sciences.

- **Selime oşkun** (2019); " Optimization of osl measurements parameters in beryllium oxide (BeO) dosimeters based on dose response characteristics", Ankara University, Institute of Nuclear Sciences.
- **Hümevra Gür** (2019); " Retrospective dosimetry study of thermally assisted optically stimulated luminescence (Ta-Osl) signals from natural and artificial luminescence materials: Possible applications on dating and health physics"; Ankara University, Institute of Nuclear Sciences.
- **Erdi Günay** (2018); "The Dosimetric Comparison of Simultaneous İntegrated Boost and Sequential Boost Radiotherapy Using IMRT and VMAT Techniques in Patients With Glioblastoma", **Co-Advisor:** Doç. Dr. Ö. Petek ERPOLAT; Ankara University, Institute of Nuclear Sciences.
- **Seval Cibiceli** (2018); "The Effects of Temporary Tissue Expander and Breast İmplant on Dose Distribution on Patients Receiving Post-Mastectomy Radiotherapy", **Co-Advisor:** Doç. Dr. Ö. Petek ERPOLAT; Ankara University, Institute of Nuclear Sciences.
- **Sasan Geranmayeh** (2018); "Investigating Dozimetry Properties of Various Daily Materials Using With Luminescence Techniques on Retrospective Dosimetry Research Fields as Well as Estimation of Effective Organ Doses in Case of an Artificial Radiation Accident Scenario", Ankara University, Institute of Nuclear Sciences.
- **Fuat Server Sakuçođlu** (2016); "Comparative Luminescence Study of Various Commercial Glass Samples for Dosimetry", Ankara University, Institute of Nuclear Sciences.
- **Merve Gündođmuş** (2015); "Investigation of Dosimetric Properties of Different Boron Compounds and Their Usability in Retrospective Dosimetry Field", Ankara University, Institute of Nuclear Sciences.
- **Olgu Güvenç** (2015); "Dosimetric Comparison of the Planning System of Conformal Radiotherapy, IMRT and Cyberknife Robotic Radiological Surgery in the post-Breast Conserving Surgery Boost Treatment", Danışman: Prof. Dr. Yıldız Yükselen GÜNEY, Co-Advisor Doç. Dr. Niyazi MERİÇ, Ankara University, Institute of Nuclear Sciences.
- **Sinem Karacabey** (2015); "Comparison of Dose Distributions in Treatment Planning System and in-vivo Dosimetry With 6 Mv and 18 Mv Photon Energies in Total Body Irradiation"; Danışman: Prof. Dr. Ayşe Hiçsönmez, Co-Advisor Doç. Dr. Niyazi Meriç Ankara University, Institute of Nuclear Sciences.
- **Sanaz Hendi** (2015); "Investigation of TLD-600(Lif-6:MG,TI) and TLD-700(Lif-7:MG,TI) Dosemetres Sensitivity TO Neutron Dose and Investigation of Usability of TLD-600 and TLD-700 For the Purpose of Dosimetry in Linear Accelerator Devices Used in Radiotherapy", Ankara University, Institute of Nuclear Sciences.
- **Aytaç Barış** (2014); "Investigation of Graphite Doped Pencils Usability as Retrospective Dosimeter", Ankara University, Institute of Nuclear Sciences.
- **Aylin Karagöz** (2011); (Investigation of Dosimetric Properties and Luminescence Sensitivity of Graphite Dopped Pencils) , Ankara University, Graduate School of National and Applied Sciences.
- **Gül Bayramiye Özpek** (2011); (Parameters Effecting Equivalent Dose in Luminescence Dating); Ankara University, Graduate School of National and Applied Sciences.
- **Eren Şahiner** (2010); (True Coincidence Effects in Natural Radioactive Isotopes); Ankara University, Graduate School of National and Applied Sciences.

- **Cağın Güneş (2009);** (Comparison of Sample Preparation Techniques which are used in Dating with Luminescence Methods), Ankara University, Graduate School of National and Applied Sciences.
- **Mustafa Doğan (2008);** (Multirate analyses and GIS application in the definition of Radiation and Heavy Metal Pollution in the vicinity of Thermic Powerhouse), Ankara University, Graduate School of National and Applied Sciences.
- **Songül BARLAZ (2005);** (dose distribution and dose volume histogram comparison of electron, photon and mixed electron-photon irradiation of internal mammary chain lymph nodes in breast cancer), Ankara University, Graduate School of National and Applied Sciences.
- **Levent Ateş (2005);** (Effect of different irradiation techniques on contralateral breast, lung and heart tissue dose in breast cancer radiotherapy), Ankara University, Graduate School of National and Applied Sciences.
- **Ülkü Rabia Yüce (2004);** (Application of Monte Carlo Calculations to the Dose Measurements in Diagnostic Radiology), Ankara University, Graduate School of National and Applied Sciences.

Courses by Prof. Niyazi MERİÇ:

Undergraduate Courses

- Nuclear Physics I -II
- Medical Physics
- Quantum
- Electrics
- Physics III
- Mechanics

Graduate Courses

- Numerical Techniques in Physics I(C Programming)
- Numerical Techniques in Physics II (Monte Carlo)
- Numerical Analysis Techniques and Applications

Training Courses

- Radiotherapy and Nuclear Medicine Physician Training of Employees, TAEA, 23 November to 20 December 1992, Ankara.
- Nuclear Measurement and Analysis Techniques, TAEA, 19-23 December 1994, Ankara.

12. Languages:

Language(s)	Speaking	Reading	Writing
Turkish	<i>Mother Tongue</i>		
English	<i>Good</i>	<i>Good</i>	<i>Good</i>

20 August 2021

I decided to retire on his own accord from his position as the Director of the Institute of Nuclear Sciences at Ankara University.

From: 2016 To: 2021

Employer: Ankara University, Engineering Faculty, Department of Engineering Physics

Positions held: *Prof. Dr., Dept. of Engineering Physics, Faculty of Engineering, Ankara University*

- *Ankara University, Director, Graduate School of Nuclear Sciences (2016– 2021)*
- *Ankara University, Senate Member (2016 – 2021)*
- *Member of the Executive Board of Geology Research & Application Center (2016 – 2021)*

From: 2011 To: 2016

Employer: Ankara University, Engineering Faculty, Department of Engineering Physics

Positions held: *Assoc. Prof. Dr., Dept. of Engineering Physics, Faculty of Engineering, Ankara University*

- *Ankara University, Director, Graduate School of Nuclear Sciences (2012– 2016)*
- *Ankara University, Senate Member (2012 – 2016)*
- *Member of the Executive Board of Geology Research & Application Center (2012 – 2016)*
- *Member of the Executive Board of Superconducting Technology Application and Research Center (2012 – 2016)*

From: 2000 To: 2011

Employer: Ankara University, Engineering Faculty, Department of Engineering Physics

Positions held: *Assist. Prof. Dr., Dept. of Engineering Physics, Faculty of Engineering, Ankara University*

- *Member of the Executive Board of Faculty of Engineering, Asst. Assoc. Representative. Ankara University (2001 – 2004)*
- *Ankara University, Faculty of Science, Department of Computer Commission (2001 – 2002)*
- *Internship Coordinator, Department of Engineering Physics (2001 – 2003)*
- *Coordinator of Faculty of Engineering and Computer works and Web pages (2001 – 2005)*
- *Board Member Faculty of Science and Engineering Businesses (2001 – 2005)*
- *Vice-Manager, Ankara University, Continuing Education Center (2002 – 2005)*
- *Supervisory Board Member of Faculty of Science and Engineering Businesses (2005 – 2006)*

From: 1996 **To: 2000**

Employer: Ankara University, Engineering Faculty, Department of Engineering Physics

Positions held: *Assist. Prof. Dr., Dept. of Physics, Faculty of Sciences, Ankara University*

From: 1986 **To: 1996**

Employer: Ankara University, Engineering Faculty, Department of Engineering Physics

Positions held: *Research Assist., Department of Physics, Faculty of Sciences, Ankara University*