

## **Dragana Krstić**

### **Full professor**

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#### EDUCATION

BC - Diploma in Physics: Faculty of Science, University of Kragujevac, Serbia (1979-1984)

Master thesis: Faculty of Science, University of Kragujevac, Serbia, June 2, 1995

PhD thesis: Faculty of Science, University of Kragujevac, Serbia, June 9, 2006

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#### EMPLOYMENT

b) Assistant from may 1989 to april 2007 at Physics Department, Faculty of Science, University of Kragujevac

c) Assistant professor 2007-2019

d) Associate professor 2019-2024

e) Full professor 2024 June-present

The subjects: Radiation Physics, Radioecology, Biophysics for students of biology and ecology and

Dosimetry and radiation protection

#### SCIENTIFIC CAREER (SHORT DESCRIPTION)

Main subject of research was dose assessments of radon and its progeny with emphasis on beta and gamma radiation. For dose determining particle by particle transport codes were involved, such as MCNP; owner of the license for the latest MCNP6.3 software; boron neutron capture therapy investigations. It is also an ongoing research in the field of nuclear medicine, such as the development of biokinetic models in DOTATOC therapy; recently there was emphasis to proton boron fusion therapy (PBFT) investigations; participation in the Voxel Phantom Intercomparison, organized by Eurados 2017.

Dragana Krstic has published about 100 papers in journals and the most of them were related to the calculation with MCNP. In cooperation with colleagues were developed input files for MCNP with ORNL and voxel model of standard man in standing position. ORNL phantoms are in MCNP Medical Physics Geometry Database (Goorley T. MCNP Medical Physics Database. X-3 MCC, Los Alamos National Laboratory. American Nuclear Society. Boston, MA, 2007).

Member of EURADOS, group WG12 from February 2015; she is also a participant in the international project PIANOFORTE2023.

Hirsch index is 14 (according to Scopus) with obtained about 800 citations (excluding self-citations).

Selected articles published in last 5 years:

1. Watabe, H., Yu, P.K.N., Tse, G., **Krstic, D.**, Nikezic, D., Rafiqul Islam, M., Wei, Z., Wei, Y., Shahmohammadi Beni, M. Monte Carlo modelling of cyclotron and radioisotope center (CYRIC) at Tohoku University: a radiation protection study. Journal Radiology Protection 44(2), 2024, 021521. <https://doi.org/10.1088/1361-6498/ad5450>

2. Ferrari P, Venturi G, Campani L, Mariotti F, Becker F, Jansen J, Jovanović Z, **Krstić D**, Teles P. Medical staff monitoring in interventional cardiology: over apron dosimeter placement based on measurements and simulations. *Radiation Protection Dosimetry*, 200(8):802-807, 2024. <https://doi.org/10.1093/rpd/ncae125>
3. Jeremic, Z.M., Matovic, D.M., Mijatovic, R.N., Pantovic, B.S., **Krstic, Z.D.**, Miladinovic, B.T., Nikezic, R.D. Radioactivity of biological samples of patients treated with 90Y-DOTATOC, *Nuclear Engineering and Technology*, 55(10): 3815-3821, 2023. <https://doi.org/10.1016/j.net.2023.06.047>
4. **Krstic, D.**, Nikezic, D., Jeremic, M., Dolicanin, E., Miladinovic, T., Zivkovic, M. Comparison between MCNP and planning system in brachytherapy of cervical cancer. *Applied Radiation Isotopes*, 192, 2023, 110614. <https://doi.org/10.1016/j.apradiso.2022.110614>
5. Eakins, J., Huet, C., Brkić, H., Capello, K., Desorgher, L., Epstein, L., Hunt, J.G., Kim, H.S., **Krstic, D.**, Lee, Y.-K., Manohari, M., Nikezic, D., Shukrun, R.H., Souza-Santos, D., Tymińska, K. Monte Carlo calculation of organ and effective dose rates from ground contaminated by Am-241: Results of an international intercomparison exercise. *Radiation Measurements*, 148, 2021, 106649. <https://doi.org/10.1016/j.radmeas.2021.106649>