Marija Majer, Ph.D Senior Research Associate Radiation Chemistry and Dosimetry Laboratory (RCDL) Ruđer Bošković Institute (RBI) Bijenička cesta 54 10 000 Zagreb Croatia email: <u>mmajer@irb.hr</u> phone: +385 1 4561051 mobile: +385 98 9059404

Curriculum vitae

Personal data

Name and surname: Marija Majer Date and place of birth: 22nd April 1972, Dubrovnik, Croatia Nationality: Croatian Personal website: <u>https://www.irb.hr/eng/About-RBI/People/Marija-Majer</u> Female, married, two children

Education

2008	PhD in physics Faculty of Science, University of Zagreb, Croatia
2000	MSc in physics Faculty of Science, University of Zagreb, Croatia
1996	BSc in Physics Faculty of Science, University of Zagreb, Croatia

Employment

2018 - present	Senior Ressearch Associate Radiation Chemistry and Dosimetry Laboratory, Ruđer Bošković Institute, Zagreb, Croatia
2011 - 2018	Ressearch Associate Radiation Chemistry and Dosimetry Laboratory, Ruđer Bošković Institute, Zagreb, Croatia
2008 - 2011	Research/teaching senior assistant Faculty of Science, University of Zagreb, Croatia
2000 - 2008	Research/teaching assistant Faculty of Science, University of Zagreb, Croatia

1997 - 2000	Research/teaching young assistant
	Faculty of Science, University of Zagreb, Croatia

Scientific work

2011 – present	Research in the field of radiation dosimetry and medical physics with the emphasis on the use of thermoluminescent and radiophotoluminescent dosimetry in medical applications and radiation protection.
	Member of research teams in several national and international projects. Within European Radiation Dosimetry Group (EURADOS) participating in the work of the Working Group 9 (Radiation dosimetry in radiotherapy) and Working Group 12 (Dosimetry in medical imaging).
2005 - 2011	Research in the field of experimental low-energy nuclear physics (studies of reactions and structure of light exotic nuclei)
1997 - 2005	Research concerning processes in atoms due to electromagnetic interaction with special emphasis on internal atomic shells (two photon decay, radiative electron capture, Compton profile)

Publications:

Author of 39 scientific papers in peer reviewed international journals and over 60 different proceedings papers and abstracts:

https://www.scopus.com/cto2/main.uri?ctoId=CTODS_1281225877&authors=572134555 30&authors=9436436000&origin=AuthorNamesList#citationOverviewTable

http://bib.irb.hr/lista-radova?autor=220105

Leading and participation in international projects:

- 2021 2025 IP-2020-02 5393 Characterisation of RadioPhotoLuminescent dosimeters for measurements in Heavy Charged Particle field (RPLforHCP), founded by the Croatian Scince foundation - principal investigator
- 2021 2022 IAEA TC project RER1021 Enhancing the use of Radiation Technologies in Industry and Environment, associate
- 2020 2023 EURopeAn MEDical application and Radiation prOteCtion Concept: strategic research agenda aNd ROadmap interLinking to heaLth and digitisation aspects (EURAMED rocc-n-roll), H2020, associate
- 2017 2021 Metrology for mobile detection of ionising radiation following a nuclear or radiological incident (PREPAREDNESS) founded by The European Metrology Programme for Innovation and Research(EMPIR) under The

European Assoc. of National Metrology Institutes (EURAMET), H2020, associate

- 2018–2020 Validation and Estimation of Radiation Skin Dose in Interventional Cardiology (VERIDIC) founded by the CONCERT - European Joint Programme for the Integration of Radiation Protection Research, H2020, associate
- 2015 2018 Work Package Early Neutron Source (WPENS) within EUROFusion, H2020
- 2016-2017 IAEA TC project RER/1/017 Using Advanced Radiat. Technol. for Materials Processing, associate
- 2014–2015 IAEA Technical cooperation (TC) project RER/1/014 Introducing and Harmonizing Standardized Quality Control Procedures for Radiation Technologies, associate
- 2014–2015 Croatian-China bilateral cooperation project, *Optimization of doses from* computed tomography for paediatric population, Scince foundation, associate
- 2014 2015 IAEA TC CRO/1/006 Upgrading of 60Co panoramic irradiation facility in *Croatia*, associate
- 2011–2015 Physico-chemical effects of ionising radiation in materials, Croatian Ministry of science (MZOS), 098-0982904-2954, associate
- 2007 2011 Istraživanja hadronskih sustava upotrebom relativističkih projektila, MZOS, 119- 0982887-1006, associate
- 2002 2006 Processes in inner atomic shells, MZOS, 0119264, associate
- 1996 2002 Spacial electromagnetic processes in atoms, MZOS, 119208, associate

Invited lectures:

2018	14 th International Workshops on Ionizing Radiation Monitoring, Oarai,
	Japan, Title: Dosimetry of stray radiation in photon radiotherapy and
	phantom studies
2017	13 th International Workshops on Ionizing Radiation Monitoring, Oarai,
	Japan, Title: Story about panoramic Co-60 gamma irradiation facility at the
	RBI
2016	12 th International Workshops on Ionizing Radiation Monitoring, Oarai,
	Japan, Title: Dosimetry studies in Ga,, a Knife radiosurgery – contribution of
	RBI and UHC collaboration

Teaching activities:

Faculty of Science, University of Zagreb, Croatia:

2019 - present Radiation protection in medicine (Doctoral study in physics, medical physics module)
2014 - 2020 Seminar in medical physics (Doctoral study in physics, medical physics module)
2016 - 2020 Medical Physics (graduate study)
2008 - 2011 Excercises for Fundamentals of Physics 1-4 (undergradudate study)

2000 - 2008	Excercises for Physics 1-2 (undergradudate study)
2000 - 2011	Physics Lab (undergradudate study)
1997 - 2000	Nuclear Physics Lab (gradudate study)

Supervision of graduate/doctoral students:

Faculty of Science, University of Zagreb, Croatia:

2021	Alen Polović, diploma thesis
2021	Ivan Veršić, diploma thesis
2021	Franka Mikolaj, diploma thesis
2020	Niko Jurlina, diploma thesis
2019	Amelia Vidov, diploma thesis
2016	Paula Tomić, diploma thesis
2015	Hrvoje Hršak, PhD thesis
2014	Atlantis Cobalt, diploma thesis

Organizational skills:

International congresses:

2015	EURADOS Annual Meeting 9-12.02.2015, Dubrovnik, Croatia – member of the organization committee
2016	7th Alpe-Adria Medical Physics Meeting, 19-21.05.2015, Zagreb, Croatia – member of the scientific committee
2018	IAEA Technical meeting, Zagreb, Croatia - member of the organization committee
National congressess:	
2019	12th Symposium of the Croatian Radiation Protection Association with international participation, 10-12.04.2019, Varaždin, Croatia – member of the scientific committee
2015	10th Symposium of the Croatian Radiation Protection Association with international participation, 15-17.04.2015, Šibenik, Croatia – member of the scientific committee
2013	9th Symposium of the Croatian Radiation Protection Association with international participation, 10-12.04.2013, Šibenik, Croatia – president of the organisation committee

Institutional responsibilities:

2019 - present	Member of the Council, Croatian Association of Medical Physics
2017 - present	Member of the Council, Croatian Radiation Protection Association
2014 - 2020	Member of the Council and Medical Physics module coordinator, Doctoral
	studies in physics provided by the Faculty of Science, University of Zagreb

2012 - present	Coordinator of the IAEA/WHO postal dose audit for radiotherapy centres in
	Croatia
2009 - 2017	Member of the National Comittee for Competition in Physics for primary
	and secondary school

Membership in professional associations / societies:

Croatian Physical Society (CPS), Croatian Radiation Protection Association (CRPA), European Radiation Dosimetry Group (EURADOS), Internetional Radiation Protection Association (IRPA), International Radiation Physics Sociaty (IRPS), Croatian Association of Medical Physics

Reviewer:

Radit. Phys. Chem., Radiat. Prot. Dosim., Radiat. Meas., Eur. Radiol., Radiat. Env. Biophys., Measurements.