

Curriculum Vitae



Personal information

Mariana Mirela Brașoveanu

Senior Scientist

mirela.brasoveanu@inflpr.ro ;

Name and address of employer

National Institute of Research-Development for Laser, Plasma and Radiation Physics Bucharest
Electron Accelerator Laboratory, 409 Atomistilor St, Bucharest-Magurele, Romania;

Dates

July 2004 to present

Occupation or position held

Senior Researcher (3rd degree)

Main activities and responsibilities

Electron beam interaction with matter; Electron beam dosimetry with cellulose triacetate film
Physicochemical analysis: electron spin resonance (ESR) spectroscopy, spectrophotometry and infrared spectroscopy, rheology and gel permeation chromatography (GPC)
Nonconventional methods of treatment and modification of biopolymers
Electron beam treatment of nutritional supplements for microbiological decontamination
Knowledge of specialised scientific tools (Origin, CaryWin, Breeze, Opus)

Dates

July 1996 – June 2004

Occupation or position held

Scientific Researcher

Main activities and responsibilities

Electron beam interaction with matter/Paramagnetic resonance investigations on nature and evolution in time of radio-induced radicals in organic materials /Identification methods of irradiated food/Use of electron beam to preserve foodstuff and medicinal plants
Project Manager, 2003, Project DELTA-B.EN.A in the environmental protection field: *Identification possibilities of irradiated coffee beans by rheological method and electron paramagnetic resonance*

Dates

October 1994 – June 1996

Occupation or position held

Research Assistant

Main activities and responsibilities

Electron beam interaction with matter/Characterization of radiation fields produced by sources with special characteristics (non-homogeneous, pulsating, with non-isotropic emission)

Education and training

PhD in Physics, University of Bucharest, Romania (2007)

MSc in Physics, Applied Nuclear Physics University of Bucharest, Faculty of Physics, Romania (1995)

BSc in Physics, Applied Nuclear Physics University of Bucharest, Faculty of Physics, Romania(1994)

Specialization Program: "Project Manager", Experts Body in Accessing European Structural and Cohesion Funds, Bucharest, Romania, July 25 – August 28, 2011

Intermediate Accelerator Physics School, CERN Accelerator School, Eger, Hungary, September 18-29, 1995

Additional information

Reviewer *Starch/Staerke*, 2011, 2012

Project Manager of a project

Project Member, 1997 to present, in 14 projects

Publications: 30 publications in scientific journals, 4 chapters in scientific books, 9 papers in Proceedings of scientific meetings, symposia, workshops or conferences

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Patent application: no. A/00984 from October 18, 2010 registered at the State Office for Inventions and Trademarks – Romania