

Europass Curriculum Vitae

Personal information First name / Surname Address Telephone Fax E-mail Nationality Year of birth Gender	Claudiu COSTIN "Alexandru Ioan Cuza" University, Faculty of Physics, Bd. Carol I nr. 11, 700506 Iasi, ROMANIA + 40 232 20 10 25 + 40 232 20 11 50 claudiu.costin@uaic.ro Romanian 1974 Male					
Present employment / position	"Alexandru Ioan Cuza" University, Faculty of Physics / Associate professor					
Work experience						
Dates / Position held	February 2016 - present/Associate professorOctober 2008 - February 2016/LecturerOctober 2006 - September 2008/Post-doctoral researcherOctober 1999 - September 2006/Assistant Professor					
Name and address of employer	"Alexandru Ioan Cuza" University, Faculty of Physics, Iasi, ROMANIA					
Type of business or sector	Education and Scientific research					
Dates / Position held	March 1998 - September 1999 / Teaching assistant					
Name and address of employer	University of Medicine and Pharmacy "Gr. T. Popa", Faculty of Medical Bioengineering, Iasi, ROMANIA					
Type of business or sector	Education and Scientific research					
Education and training						
Dates	1999-2005 (RO) / 2001-2005 (FR)					
Title of qualification awarded	PhD in Physics (joint PhD programme RO & FR)					
Principal subjects	Thesis title: "Numerical modelling of a dc magnetron discharge in argon and argon-oxygen mixture, by the fluid model"					
Name and type of organisation providing education and training	"Alexandru Ioan Cuza" University, Faculty of Physics, Iasi, ROMANIA / Université Paris-Sud XI, LPGP, Orsay, FRANCE					
Dates	1997-1999 (3 semesters)					
Title of qualification awarded	Master of Science in Plasma Physics					
Principal subjects	Numerical modelling (Monte Carlo Flux method) of electron kinetics in electrical discharges, electron distribution function Plasma diagnostic by electrical probes					
Name and type of organisation providing education and training	"Alexandru Ioan Cuza" University, Faculty of Physics, Iasi, ROMANIA					
Dates	1992-1997					
Title of qualification awarded	Bachelor of Science in Physics					
Principal subjects	Learning Physics Initiation in scientific research					
Name and type of organisation providing education and training	"Alexandru Ioan Cuza" University, Faculty of Physics, Iasi, ROMANIA					

Scientific stages and collaborations

Dates

Occupation or position held Main activities and responsibilities Name and address of host institution November 2018 (1 week) Scientific Researcher Electrical diagnostic of Magnum-PSI plasma beam using a 2D multi-probe system DIFFER - Dutch Institute for Fundamental Energy Research, Eindhoven, the Netherlands

Dates

Occupation or position held Main activities and responsibilities Name and address of host institution June 2016 (2 weeks) Invited Researcher Numerical modelling of pulsed magnetron discharges (HiPIMS) Laboratoire de Physique des Gaz et des Plasmas, UMR 8578 CNRS-Université Paris-Sud XI, Orsav, France

Dates

Occupation or position held Main activities and responsibilities Name and address of host institution December 2013 (1 week) Invited professor

Teaching courses of plasma physics and applications, numerical modelling in plasma physics Masaryk University, Brno, Czech Republic

Dates

Occupation or position held Main activities and responsibilities Name and address of host institution

November 2013 (1 week)

Dates Occupation or position held Main activities and responsibilities Name and address of host institution

Dates

Occupation or position held Main activities and responsibilities Name and address of host institution

Dates

Occupation or position held Main activities and responsibilities

Name and address of host institution

Dates

Occupation or position held Main activities and responsibilities

Name and address of host institution

Personal skills and competences

Self-assessment European level

Mother tongue(s)

English

sessment bean level		Understanding			Speaking				Writing	
		Listening		Reading	Sp	ooken interaction	Sp	oken production		
English	B	2 Independent user	C2	Proficient user	B2	Independent user	C1	Proficient user	C1	Proficient user
French	B	2 Independent user	C1	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user

Page 2/4 - Curriculum vitae of Claudiu COSTIN Invited professor Teaching courses of plasma physics and applications, numerical modelling in plasma physics F. Skorina Gomel State University, Gomel, Belarus Republic August 2013 (2 weeks) Scientific researcher Electrical diagnosis (multi-probe system) for fusion related plasmas

Leopold-Franzens University of Innsbruck, Innsbruck, Austria

July-August 2008, April-May 2009, April-May 2010 // June 2012 CNRS Scientific Researcher (CDD) // Post-doc researcher

Numerical modelling of magnetron discharges (dc and pulsed) by fluid model and PIC-MCC Laboratoire de Physique des Gaz et des Plasmas, UMR 8578 CNRS-Université Paris-Sud XI, Orsay, France

October 2006, May 2007, October 2008, November 2012, September 2013

November 2005, May 2006, August-September 2010, November 2017

COMPASS Tokamak (ball-pen, Katsumata and Langmuir probe)

Scientific Researcher

Scientific Researcher

Romanian

Electrical diagnostic of Pilot-PSI and Magnum-PSI plasma beam using Langmuir probes, Katsumata probes, multi-probe system

FOM Institute for Plasma Physics Rijnhuizen, Association EURATOM-FOM, Trilateral Euregio Cluster, Nieuwegein, The Netherlands

Probe measurements in the Scrape-Off-Laver of CASTOR Tokamak and in the divertor region of

Institute of Plasma Physics, Association EURATOM-IPP.CR, Prague, Czech Republic

Professional skills and competences							
Organisational skills and competences	 creating and keeping deadlines, team work, team management, project management, coordinating events, problem solving, communication, public speaking, conflict resolution, reviewing, reporting, research 						
	I acquired my experience working as team member or director of different research grants, by contributing to the organisation of different scientific events:						
	- Secretary of the Local Or	ganizing Committee of ICPIG 2015 and CPPA 2019					
		ent Committee and leader of WG3 - 'Simulation of HIPP processes' of the hly lonised Pulse Plasma Processes, 2009 - 2013					
	- Co-chair of IWEP 2011						
	- Co-organizer of the "EURATOM-MEdC Association Days" Meeting, 2005 and 2010						
	- Member of the Local Organizing Committee of several conferences: CPPA 2003, CPPA 2005, InterAcademia 2006, CPPA 2010, CPPA2013, InterAcademia 2017, CPPA 2021						
	- Member of the Organizing Committee of Ecole d'été " <i>Plasmas non thermiques et applications</i> ", August 25-29, 2003, lasi, Romania						
Teaching activity	tivity Courses: Electrical discharges in gases, Actual problems in plasma physics, Low te plasmas and applications, Materials technology, Plasma physics, Biomecha phenomena, Plasma sources and applications						
	Plasma diagnostic temperature plasm	<i>orks</i> : General physics, Mechanics, Biomechanics, Plasma physics, s, Electrical discharges in gases, Actual problems in plasma physics, Low has and applications, Materials technology, Ecosystem and the interaction g organisms, Elements of matter structure, Transfer phenomena					
Scientific research activity	a) Fields of expertise:						
	 - numerical modelling in plasma physics: fluid model for dc magnetron discharge and di barrier discharge, PIC-MCC simulations for dc and pulsed (HiPIMS) magnetron discharge, Flux method for electron distribution function, collisional–radiative model, Monte Carlo simu thin film deposition - plasma diagnostics for both low-temperature and thermonuclear interest plasmas: electr probes (simple, double and triple Langmuir probe, Katsumata probe, ball-pen probe), electr analyzers, multi-probe systems, optical emission spectroscopy 						
	- data acquisition systems						
	b) ISI papers:	32					
	c) Scientific grants:	director of 5 grants and member of more than 15 grants					
	d) ISI citations:	400 (excluding self-citations)					
	e) Conferences:	more than 75 contributions to international conferences					
	f) Hirsch index:	11					
	the high Impulse	n, T. Kozak, C. Costin, J. T. Gudmundsson, D. Lundin, chapter "Modeling power impulse magnetorn sputtering discharge", in book High Power Magnetron Sputtering, 1st Edition, Fundamentals, Technologies, Challenges lications, Editors: D. Lundin, J. T. Gudmundsson, T. Minea, Elsevier, 2020					
	h) Co-Editor of different publications:						
	 Editors: D. Luca, L. Sirghi, C. Costin, Recent advances in technology research and education, Proceedings of the 16th International Conference on Global Research and Education Inter-Academia 2017, in the series: Advances in Intelligent Systems and Computing, Vol. 660, Springer (2018), ISBN 978-3-319-67458-2 						
	2013, ISSN 0863-	C. Costin, G. Popa, Contributions to Plasma Physics, Volume 53, Number 1, 1042, Special Issue: 9th International Workshop on Electrical Probes in as, September 21-23, 2011, Romania					
		a,C. Costin, course Ecole d'été " <i>Plasmas non thermiques et applications"</i> , lexandru Ioan Cuza" Iasi, 2003, Vol I + II, ISSN 1221-9363					

	i) Web of Science ResearcherID: C-3674-2011 ORCID: 0000-0003-3879-3555
	Scopus Author ID: 9274825700
Additional information	Member of the International Scientific Committee of PLATHINIUM (Plasma Thin film International Union Meeting) since 2019
	Director of the Research Department, Faculty of Physics, "Alexandru Ioan Cuza" University of Iasi (Oct. 2016 - Dec. 2017)
	Scientific award: "Constantin Miculescu" Prize of the Romanian Academy, 2016
	Syndicate leader of the Faculty of Physics, "Alexandru Ioan Cuza" University of lasi (Jan. 2010 - Jan. 2014)
	Member of the Association EURATOM/MEdC Romania (2005-2014)
	Competent with most Microsoft Office programmes, Origin, Fortran programming

25/01/2022

Associate professor Claudiu COSTIN