


PERSONAL INFORMATION

Dana Toloman Donath 67-103, 400293 Cluj-Napoca (Romania) (+40)-264584037 dana.toloman@itim-cj.ro

WORK EXPERIENCE

2001–2003 **Researcher Assistant**

National Institute for Research and Development for Isotopic and Molecular Technologies, Cluj-Napoca (Romania)

ESR investigation of metallic nanoparticles inserted in porous membranes

2003–2006 **Scientific researcher**

National Institute for Research and Development for Isotopic and Molecular Technologies, Cluj-Napoca (Romania)

Spin dynamics in colossal magnetoresistive materials

2006–2016 **Scientific researcher III**

National Institute for Research and Development for Isotopic and Molecular Technologies, Cluj-Napoca (Romania)

Synthesis, structural, optical and magnetic characterization of oxide matrices doped with transition metals.

Advanced characterization of magnetic diluted semiconductors

2016–Present **Scientific researcher II**

National Institute for Research and Development for Isotopic and Molecular Technologies, Cluj-Napoca (Romania)

Nanocomposite materials - structural characteristics, optic-magnetic and photocatalytic properties.

Thin films deposition by laser ablation

EDUCATION AND TRAINING

1996–2001 **University Degree**

Babeş-Bolyai University, Faculty of Physics, Technological Physics, Cluj-Napoca (Romania)

2001–2002 **MSc Degree**

Babeş-Bolyai University, Science of Oxide Materials, Cluj-Napoca (Romania)

2002–2010 **PhD in Physics**

Babeş-Bolyai University, Cluj-Napoca (Romania)

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B1	B2	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Job-related skills Electron Spin Resonance (ESR) characterisation of 3d and 4f ions
 Free radicals detection by ESR
 Antioxidant activity evaluation by ESR
 Photocatalytic activity evaluation
 Reactive oxygen species identified by ESR
 Thin films deposition by laser ablation (PLD)

Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem-solving
	Independent user	Independent user	Independent user	Basic user	Basic user

Digital skills - Self-assessment grid

ADDITIONAL INFORMATION

Citations	274
Publications	52
h-index	10
Specialization	Visiting researcher - Molecular Physics Institute, Scientific Polish Academy, Poznan, Poland - April 2005
Courses	Bruker BioSpin: CW-EPR, Germany, 4-6 march 2009
Projects	<ul style="list-style-type: none"> ▪ I won a Research Scholarship CNCSIS Bd, project ID 221, 2003-2005, entitled “<i>The study of vitreous matrices composition influence on transition metal ions behavior</i>” ▪ I won a “Horia Hulubei”, National Grant through competition as principal investigator: “<i>ESR Characterization of metallic nanoparticles inserted in porous matrices</i>” ▪ Active member in 15 national projects and in 1 POC project (2016-2021) – Knowledge Transfer Partnerships.