

PERSONAL INFORMATION

Vasile CHIŞ



 4E, Mihail Kogălniceanu, Floreşti, 407280, Cluj, Romania

  +40723062811

 vasile.chis@ubbcluj.ro

 www.phys.ubbcluj.ro/~vasile.chis



Sex M | Date of birth 24/04/1966 | Nationality Romanian

WORK EXPERIENCE

February 2008 - present

Full Professor, PhD

Babeş-Bolyai University, Faculty of Physics, Cluj-Napoca Romania
1, Mihail Kogălniceanu, Cluj-Napoca, 400084, Romania
www.phys.ubbcluj.ro/~vasile.chis

- Teaching
- Research

Business or sector Higher Education, Research and Development

October 2002 - February 2008

Associate Professor, PhD

Babeş-Bolyai University, Faculty of Physics, Cluj-Napoca Romania
1 Mihail Kogălniceanu, Cluj-Napoca, 400084, Romania
www.phys.ubbcluj.ro

- Teaching
- Research

Business or sector Higher Education, Research and Development

October 1998 – October 2002

Lecturer, PhD

Babeş-Bolyai University, Faculty of Physics, Cluj-Napoca Romania
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www.phys.ubbcluj.ro

- Teaching
- Research

Business or sector Higher Education, Research and Development

October 1991 – October 1998

Assistant Professor

Babeş-Bolyai University, Faculty of Physics, Cluj-Napoca Romania
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- Teaching
- Research

Business or sector Higher Education, Research and Development

September 1989 – October 1991

High School Teacher

"Constantin Brâncuşi" Technological High School, 3-5 Nicolae Iorga, Dej, 405200, Romania
http://www.gsbrancusidej.ro/

- Teaching

Business or sector Education

EDUCATION AND TRAINING

October 2000 – March 2001

Post-doc

Universita degli Studi di Padova, Padova, Italy
NATO Fellowship

October 1994 – June 1998 **Research subject: Cw and Pulsed EPR on high-energy irradiated amino acids**
PhD in Physics

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Babeş-Bolyai University, Faculty of Physics, Cluj-Napoca, Romania

October 1985 – July 1989

▪ Structure and properties of free radicals induced by gamma-irradiations of amino acids

BSc Physics

▪ Babeş-Bolyai University, Faculty of Physics, Cluj-Napoca, Romania

▪ Principal subjects: Physics, Mathematics

▪ Skills acquired: critical thinking, problem solving, modeling, IT, data analysis, research, communication, work independently

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C2	C1	C1
Italian	C1	C2	C2	C1	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills

Excellent communication skills and relationships with colleagues in the Faculty, University or from other national or international institutions. I supervise a research group (www.phys.ubbcluj.ro/raman) and participated in many national and international projects.

Organisational / managerial skills

Head of the Doctoral School of Physics since November, 2022
 Member of the Council of Doctoral Studies of the Babeş-Bolyai University since October, 2020
 Member of the Socio-Economic Council of the Babeş-Bolyai University since February, 2021
 Member of the National Council for Scientific Research since May, 2020
 Head of Department of Biomolecular Physics between April 2013 – January 2020
 Member of the Program Committee of the 8-th International Conference on Advanced Vibrational Spectroscopy, July 12-17, 2015, Vienna, Austria
 Secretary of the 31-st European Congress on Molecular Spectroscopy, August 26-31 2012, Cluj-Napoca, Romania
 Secretary of the 4-th Conference on Elementary Processes in Atomic Systems (CEPAS 2008), June 18-20 2008, Cluj-Napoca, Romania
 Member of the organizing committee of four international conferences on Advanced Spectroscopies on Biomedical and Nanostructured Systems, Cluj-Napoca, 2004, 2006, 2008 and 2011;
 Member in the organizing committee of two summer schools: Summer School NanoMA - Physics and Chemistry of NANO Materials - Preparation, Analytics, Theory, and Applications, Cluj-Napoca Romania, 2005 and 2007
 Member of the Management Committee of the COST Action CM1002 (CODECS-CONvergent Distributed Environment for Computational Spectroscopy), 2012-2014
 Coordinator of the activity for locating the Raman-SPM laboratory as well as for the acquisition and installation of the equipment (www.phys.ubbcluj.ro/raman).

Job-related skills

Post-doc mentorship – 3; Doctoral theses supervisor – 16 (9 defended); Master dissertations supervisor – 34; Bachelor theses - 50
 Didactic experience: Molecular Physics, Informatics for Physicists, Molecular modelling of biomolecular structures, Calculation of molecular properties; Molecular symmetry

Computer skills C, C++, Mathematica, Python

Driving licence B

ADDITIONAL INFORMATION

Publications

Publications: 2 books, 126 papers in ISI journals; H index: 25, Total citations: 2100+

Presentations

Invited lectures: Molecular Modeling in Chemistry and Biochemistry, 2014 and 2016, The role of computational spectroscopy for predicting the biomolecular properties, SmartDiaspora 2023, Timișoara, April 10-13, 2023

Projects

Research grants:

1. Molecular Systems with applications in molecular electronics: theoretical and experimental study (CNCSIS 2007) - director; 2. Understanding Ionic Liquids as Novel Solvent in Green Chemistry (ERA NET II 2007) – director; 3. Spectroscopical and theoretical studies on complex molecular systems of biomedical interest – scientific responsible PCE 2007); 4 - Biofunctionalized Nanoparticles for developing new methods for imaging, detection, diagnostic and molecular therapy in biological media (PCCE 2012) – partner director; 5- Studii doctorale inovative intr-o societate bazata pe cunoastere (POS-DRU 2010) – member; Nano-Biosensing Of Atherosclerosis And Thrombosis By Surface Enhanced Spatial Offset Raman Spectroscopy (Sesors) (TE 2013) – member; Dezvoltarea unui dispozitiv microfluidic portabil pentru detectia rapida SERS a patogenilor (PED 2017) – member; PN-III-P4-ID-PCCF-2016-0112, Nanomateriale magnetoplasmonice multifunctionale pentru aplicatii de tip point of care, membru; național (NanoTex) (2018-2022)

ResearcherID: B-5552-2011

Editorial Activity: Member of the Editorial Board of: International Journal of Molecular Sciences (Physical Chemistry and Chemical Physics section), International Journal of Chemical Modeling and Studia Physica;

Special issue guest editor for Journal of Molecular Structure – "Bridging molecules and nanoparticles - the way from optical spectroscopy to cancer therapy".

Guest editor for International Journal of Molecular Sciences – "Molecules and Nanoparticles for Cancer Diagnosis and Therapy"

Referee for: Journal of Colloid and Interface Science, Analyst, Scientific Reports, Physical Chemistry Chemical Physics, Applied Surface Science, Journal of Physical Chemistry, Molecules, Sensors, RSC Advances, Journal of Raman Spectroscopy, Inorganica Chimica Acta, Computational Materials Science, Chemical Physics, Chemical Physics Letters, Journal of Hazardous Materials, Vibrational Spectroscopy, Journal of Molecular Structure, Spectrochimica Acta A, Journal of Molecular Modeling, Central European Journal of Physics, Spectroscopy Letters, Romanian Journal of Physics, Revue Roumaine de Chimie, Studia Chemia,

Romanian Physical Society; European Physical Society; Romanian College of Medical Physicists - vicepresident

Awards: "Constantin Miculescu" award of Romanian Academy (2008); "Babeş-Bolyai University" Diploma of merit (2005); "Babeş-Bolyai University" award for 2001

Memberships Honours and awards

ANNEXES

List of publications (see

http://www.phys.ubbcluj.ro/~vasile.chis/V_Chis_List_of_publications.pdf)

April 18, 2024

Prof.dr. Vasile Chiş

