

Personal Information



TOTU Eftimie Eugenia

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Professional experience

Period	2004 – to present
Occupation or position held	Professor
Main activities and responsibilities	Courses: Analytical Chemistry, Instrumental Analysis, Optimization of analytical processes, Microanalytical Reagents, Quality Control of Inorganic Products, Research, Practical Works, Guidance of Dissertation papers, Master's Degree, PhDs.
Name and address of employer	Department of Analytical Chemistry and Environmental Engineering, Faculty of Chemical Engineering and Biotechnologies, University Politehnica of Bucharest
Type of business or activity sector	Education
Period	2000-2004
Occupation or position held	Associate Professor
Main activities and responsibilities	Courses: Analytical Chemistry, Instrumental Analysis, Optimization of analytical processes, Research, Practical Works, Guidance of Dissertation papers, Master's Degree.
Name and address of employer	Department of Analytical Chemistry and Instrumental Analysis, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest
Type of business or activity sector	Education
Period	1994 - 2000
Occupation or position held	Lecturer
Main activities and responsibilities	Courses: Analytical Chemistry, Instrumental Analysis, Optimization of analytical processes, Research, Practical Works, Guidance of Dissertation papers.
Name and address of employer	Department of Analytical Chemistry and Instrumental Analysis, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest
Type of business or activity sector	Education
Period	1990 - 1994
Occupation or position held	Assistant
Main activities and responsibilities	Courses: Analytical Chemistry, Instrumental Analysis, Research, Practical Works.
Name and address of employer	Department of Analytical Chemistry and Instrumental Analysis, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest
Type of business or activity sector	Education
Period	1986 - 1990
Occupation or position held	Researcher
Main activities and responsibilities	Design and production of printed circuits, optimization of metallization processes
Name and address of employer	The Army Research Center, Bucharest, Romania
Type of business or activity sector	Research
Period	1986 - 1989
Occupation or position held	Teacher
Main activities and responsibilities	Chemistry, Practical works, Pupil tutoring
Name and address of employer	Agroindustrial Highschool Titu, Dambovita
Type of business or activity sector	Education

Education and Training

Period	March 2009
Qualification / diploma obtained	Certificate
Main disciplines studied/acquired professional skills	Basic HPLC Method Development
Name and type of educational institution/training provider	Continuing Education Program, PITTSBURGH
Period	August - September 2008
Qualification / diploma obtained	Certificate (CDS/15738)
Main disciplines studied / acquired professional skills	Project Management
Name and type of educational institution/training provider	CODECS S.A.
Period	March 1997
Qualification/diploma obtained	Ph.D.
Main disciplines studied/acquired professional skills	Doctor in Chemistry
Name and type of educational institution/training provider	University of Bucharest, Romania
Level in national or international classification	Doctoral studies
Period	June - September 1996
Qualification/diploma obtained	Specialization in the area of the sensors of clinical usage
Main disciplines studied / acquired professional skills	Chemical sensors for clinical use
Name and type of educational institution/training provider	Durham University, UK
Level in national or international classification	Specialization studies
Period	May - September 1995
Qualification / diploma obtained	Visiting Professor
Main disciplines studied/acquired professional skills	New ion-selective membranes
Name and type of educational institution/training provider	Newcastle upon Tyne University, UK
Period	March-August 1994
Qualification / diploma obtained	Visiting Professor
Main disciplines studied/acquired professional skills	New chemical sensors
Name and type of educational institution/training provider	Newcastle upon Tyne University, UK
Period	January - October 1993
Qualification / diploma obtained	Visiting Professor
Main disciplines studied / acquired professional skills	Chemical sensors
Name and type of educational institution/training provider	Newcastle upon Tyne University, UK
Period	1989
Qualification / diploma obtained	Completed in Education (Definitive position in education)
Main disciplines studied / acquired professional skills	Chemistry
Name and type of educational institution/training provider	University of Bucharest, Romania
Period	1985 - 1986
Qualification / diploma obtained	Specialization Diploma

Main disciplines studied / acquired professional skills: Radiochemistry
 Name and type of educational institution/training provider: University of Bucharest, Romania
 Level in national or international classification: Nivel 6 – ISCED 97
 Period: 1981 - 1985
 Qualification / diploma obtained: Bachelor's Degree, specialization physical-chemistry

Main disciplines studied / acquired professional skills: Chemistry
 Name and type of educational institution/training provider: University of Bucharest, Romania
 Level in national or international classification: Nivel 5 – ISCED 97
 Period: 1977-1981
 Qualification / diploma obtained: High School Diploma, specialization informatics

Main disciplines studied/acquired professional skills: Informatics
 Name and type of educational institution/training provider: High School Matei Basarab, Informatics, Bucharest, Romania
 Level in national or international classification: Nivel 3 – ISCED 97

Personal skills and competences

Native Language
 Foreign Languages
 Self-assessment
 European Level (*)

English Language

French Language

Romanian

Understanding		Speech				Writing			
Listening		Reading		Participation in conversation		Oral speech		Written expression	
C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user
C1	Experienced user	C1	Experienced user	B2	Independent user	B2	Independent user	B1	Independent user

(*)Level of the Common European Framework of Reference for Foreign Languages

Scientific interests

Chemical Sensors
 Selective membranes for clinical usage and environmental protection
 Advanced electrochemical characterization, ac impedance electrochemical measurements, dielectric analysis
 Instrumental analysis
 Nanocomposites
 Thermal analysis
 Validation of methods of analysis

Social skills and competences

Awareness of responsibility, flexibility in human relations
 The ability to be objective, correct, optimistic, patient and mastery in student relations
 Ability to work in areas where communication is essential
 Ability to work very effectively in a team
 Ability to work without difficulties in multicultural environments

Organizational skills and competences

The ability to find in any situation the most appropriate form of treatment of students
 Creating a climate suitable for students to transmit knowledge
 The ability to accept the idea of openness to the new
 Organization of the "Petru Spacu" Student Professional Competition (2012 - present)
 Able to work as part of a senior management team
 Ability to act independently
 Good experience of project and financial management, team and public relations

Technical skills and competences	<p>Design of new microstructures that can be used to generate new selective devices Design of ion-selective membrane structures Capable of designing and making dedicated printed circuits Maintenance of teaching and research laboratories (maintenance/troubleshooting / reconditioning) Construction of flow systems for selective separation using polymeric membranes Operation of integrated research equipment (complex electrochemical systems). Production of ion-selective membranes and nanocomposites. Instrumental analysis. Nonisothermal thermal and kinetic studies. Application of legal procedures in the field of clinical chemistry research. Validation methods of analysis methods.</p>
Computer skills and abilities	<p>PC Word, Excel, PowerPoint, Outlook, Origin Optimal use of the packages of mathematical, statistical, graphical, and office applications of the software on the Windows or Linux platform. E-learning platform: AEL, Moodle Graphics: CorelDraw, Macromedia Flash / Dreamweaver.</p>
Additional Information	
Scientific publications	<p>96 papers – 73 ISI papers (h-index WOS=13, SCOPUS=14) Over 50 scientific communications in the last 5 years 11 books/chapters published 2 patents</p>
Projects	<p>1 project MANUNET ERA-NET 2018 – Project Director „HAMELDENT” – „Innovative Technology for Assessing the Periodontal Disease and New Periodontitis Treatment based on Hyaluronic Acid and Melatonin”, Contract 39/2018 Project Manager (Romania – UPB) COST - „Personalized Nutrition in aging society: redox control of major age-related diseases”, COST Action NutRedOx-CA16112 / 2017 1 project MANUNET ERA-NET 2016 – Project Director „PRIDENTPRO”, „Sterolithographic Techniques for Complete Dentures Fabrication” Contract 30/2016 4 projects lead as Project Director / Responsible 17 participation in projects as a member of the research team, out of which 2 international projects (COST and Brancusi) 3 projects in integrated management systems for education and research 1 project for testing laboratories accreditation 1 project for the development of human resources</p>
Affiliations	<p>Elected Member in the Executive Committee of European organization EURACHEM (2009- to date) Member of the Romanian Chemical Society Member of the Romanian Analytical Chemistry Society Member of the EURACHEM România Member of the American Chemical Society (ACS) Member of British Association for Advancement of Science (1995)</p>

Date: 24.01.2022