

PERSONAL INFORMATION Angela Gabriela Păun



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Sex Female | Date of birth 14/02/1994 | Nationality Romanian

POSITION Assistant Professor, Department of General Chemistry, Faculty of Chemical Engineering and Biotechnologies, Politehnica University of Bucharest

WORK EXPERIENCE

2020 March-present **Assistant Professor**
Department of General Chemistry, Faculty of Chemical Engineering and Biotechnologies, Politehnica University of Bucharest
Business or sector: Teaching

2017 July-2019 April **Research Assistant in unconventional technology and equipment**
Surgical sutures manufacturing company, Biosintex SRL based in Bucharest, Str. Paris, no. 49
Business or sector: Analysis and monitoring of sutures, Issuance of declarations of conformity and analysis bulletins.

2016 June-2016 September **Technological practice**
Dental technique laboratory - NILODENT Ploiesti

EDUCATION AND TRAINING

2019-present **Ph.D**
Doctoral thesis in the field of chemical engineering. Thesis title: Modification of titanium implantable surfaces. Coordinator: Prof.Dr.eng. Cristian PIRVU; Doctoral School of the Faculty of Chemical Engineering and Biotechnologies, Politehnica University of Bucharest

2017-2019 **Master Degree**
Elaboration of dissertation thesis in the field of implantable materials engineering. Thesis title: Modification of titanium implantable surfaces with bio-inspired structures. Coordinator: Prof.Dr.eng. Cristian PIRVU; Faculty of Medical Engineering, Politehnica University of Bucharest

Disciplines studied: Advanced ceramic biocomposites for dentistry; Advanced research management; Bioelectrochemistry, biothermodynamics and biomechanics; Thin films on metal implants and biocompatible coatings; Methods of investigation of metallic materials for medicine; The effect of nanodimensions in biomedical applications; Soft and hard implant engineering; Controlled release systems; Biocompatibility and adverse effects. Increasing biocompatibility

2013-2017 Bachelor Degree

Thesis in the field of implantable materials engineering. Thesis title: Bioinspired coatings based on lipidic nanocarriers. Coordinator: Prof.Dr.eng. Cristian PIRVU; Faculty of Medical Engineering, Politehnica University of Bucharest

Disciplines studied: Chemistry; Physics; Electrochemical processes in physiological environments, Biochemistry, Biophysics, Informatics, Science of metallic, ceramic, biopolymeric materials; Structural and functional anatomy; Physiology and pathology; Implant engineering for hard / soft tissues; Sciences applied to industry and medical equipment (microbiology, biochemistry, hygiene); Medical apparatus software; Biomedical sensors.

2009-2013 Highschool

„Nichita Stanescu” National College Ploiesti; Specialization: Natural sciences

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s) English, French

Communication skills

- Good communication and relationship skills; analytical spirit; responsibility, altruism.
- Experience of working in team (gained at work and in college).

Digital competence

Good command of office suite Microsoft Office – Word, Excell, Power Point;
Good command of programming languages: Pascal, C, PHP, MySQL; and graphical applications: OriginPro, Photoshop, Catia, AutoCAD;
-Diploma for the first CNNA module

Organisational / managerial skills

- Participation at oral presentations;
- Volunteer “Other Week” – coordination of students coming from schools in the faculty departments;
- Organizing the admission session within the Faculty of Medical Engineers;
- Volunteer in the ASIM association;
- Organizing the Polyfest. and Poli ChemistryFEST

ACADEMIC AND RESEARCH INTERESTS

General research areas

- Cellulose-based hydrogels with biomedical applications
- Co-encapsulation of willow extract in lipid nanocarriers on titanium implantable surface
- Bioinspired coatings based on lipid nanocarriers
- Modification of titanium implantable surfaces with bioinspired structures

Scientific production

- „1st Edition of the International Conference 3D Modelling Techniques for Biomedical Engineering”, 13-14 June 2016, Polytechnic University of Bucharest (MOBILE 2016 program)
- „International Conference NT SMT-LS 2020”-Modification of titanium implantable surfaces with bio-inspired structures; July 2020
- „22nd Romanian International Conference on Chemistry and Chemical Engineering - Silk fibroin coatings for amoxicillin encapsulation on implantable antibacterial surface; Sinaia, ROMANIA, September 7 – 9, 2022

Didactic activity (Laboratory works)	Studies	Program Name/Faculty	Title	Activity type
	Bachelor	Electronics, Telecommunications and Information Technology	General Chemistry	Laboratory works
		Electrical Engineering	General Chemistry	Laboratory works
		Entrepreneurship, Business Engineering and Management	General Chemistry	Laboratory works
		Medical Engineering	General Chemistry	Laboratory works
		Medical Engineering	Electrochemical processes in physiological environments	Laboratory works

Awards

- ✓ Ph.D scholarship;
- ✓ Faculty scholarship received for good grades during bachelor and master degree;
- ✓ Diploma obtained at different oral presentations;
- ✓ Participation diploma obtained at the Let's do it Romania