



CURRICULUM VITAE

Brîndușa BĂLĂNUCĂ

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Date of birth: 07.02.1987

Degrees and diploma:

2011 – 2015: PhD studies - University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials Science, Field: chemical engineering.

PhD thesis: *“Polymer Composites based on renewable raw materials”*

2009 – 2011: Master studies - University Vasile Alecsandri from Bacau, Faculty of Engineering, Field: Chemical Engineering/ Master: Design, synthesis, analysis of molecules of biological interest

Dissertation thesis: *“Studies on the influence of Spinacia oleracea (spinach) extracts over the corrosion of aluminum in hydrochloric acid media”*

2005 – 2009: Bachelor studies - University Vasile Alecsandri from Bacau, Faculty of Engineering, Field: Chemical Engineering, Specialization: Biochemical Engineering

Bachelor thesis: *“Study of obtaining whey protein concentrate”*

Professional experience and jobs:

11. 2016 – present: Teaching assistant

11. 2014 – 05. 2015: National Expert/ Trainer (Qualification course: drugs and cosmetics industry)

10. 2013 – 11. 2016 - Teaching activity

10. 2012 – 10. 2016: Research assistant

11. 2016 – present: Researcher

Research projects:

1. “Nanotehnologii inovative pe baza de polimeri pentru obtinerea de noi materiale avansate” (NAPOLII9), 40PCCDI/2018 – *Researcher*

2. UPB-GEX – Internal UPB research grant, “Acoperiri anticoroziune *ecofriendly*” (ECOAT), 71/25.02.2017 – *Project leader*

3. „Noi nanohibridi pe baza de polibenzoxazine” – PN II-ID-PCE 105/10.10.2011 – *Research assistant*

4. „Compozite inovative poliester/ celuloza bacteriana pentru ingineria biomedicala” - PN II PCCA 158/2012 – *Research assistant*

5. „Ambalaje alimentare ecologice din bio-plastice multifunctionale de ultima generatie” – PN II 59/2012 – *Research assistant*

6. „Noi concepte si strategii pentru dezvoltarea cunoasterii unor noi structuri biocompatibile in bioinginerie” – PCCE 11/ 2010 – *Research assistant*

Fields of research interest:

- Synthesis and characterization of functional compounds derived from renewable resources
- Synthesis of polymeric materials, composites and hybrids derived from renewable raw material-based monomers, natural and synthetic polymers (epoxy, methacrylates etc) with possible biomedical or industrial applications