



## Europass Curriculum Vitae



### Personal information

**First name(s) / Surname(s)** **Nicula Camelia**  
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**Fax(es)** +40262-275368  
**E-mail** vargacamelia@yahoo.com  
**Nationality** romanian  
**Date of birth** march 13 1968  
**Gender** female

**Desired employment / Occupational field** North University of Baia Mare  
Faculty of Science, Department of Chemistry and Biology

### Work experience

**Dates** 2004 – to date  
**Occupation or position held** Associate professor  
**Main activities and responsibilities** holder of subjects  
**Name and address of employer** North University of Baia Mare, Faculty of Science, Department of Chemistry and Biology  
**Type of business or sector** education  
**Dates** 1997 - 2004  
**Occupation or position held** lecturer  
**Main activities and responsibilities** holder of subjects and of practical work  
**Name and address of employer** North University of Baia Mare, Faculty of Science, Department of Chemistry and Biology  
**Type of business or sector** education  
**Dates** 1994 - 1997  
**Occupation or position held** assistant  
**Main activities and responsibilities** holder of practical work  
**Name and address of employer** North University of Baia Mare, Faculty of Science, Department of Chemistry and Biology  
**Type of business or sector** education  
**Dates** 1991 - 1994  
**Occupation or position held** assistant lecturer  
**Main activities and responsibilities** holder of practical work  
**Name and address of employer** North University of Baia Mare, Faculty of Science, Department of Chemistry and Biology  
**Type of business or sector** education

### Education and training

**Dates** 1994 - 2000  
**Title of qualification awarded** PhD  
**Principal subjects/occupational skills covered** Physical Chemistry, Electrochemistry

Name and type of organisation providing education and training	Babes Bolyai University of Cluj-Napoca, Faculty of Industrial Chemistry
Level in national or international classification	doctoral degree
Dates	1986 - 1991
Title of qualification awarded	licensed chemist
Principal subjects/occupational skills covered	Physical Chemistry
Name and type of organisation providing education and training	Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry
Level in national or international classification	bachelor's degree
Dates	July 1995 - September 1995
Title of qualification awarded	IT programmer
Principal subjects/occupational skills covered	Training of programmers for economic and technical applications on microcomputers
Name and type of organisation providing education and training	Territorial Training Center Baia Mare INFOMAR
Level in national or international classification	Specialization
Dates	May 1995
Title of qualification awarded	Specialist Diploma in Environmental Matters
Principal subjects/occupational skills covered	Environmental: „Prise en compte de l'environnement en exploitation miniere”
Name and type of organisation providing education and training	North University of Baia Mare in collaboration with L'Ecole des Mines d'Ales - France
Level in national or international classification	Specialization

**Personal skills and competences**

- Scientific and didactic, chemistry – specific examination practice, exercised in the capacity of member in panels of evaluators of graduation papers in Food products engineering and Chemistry
- Experience in topic selection, elaboration, presentation and submission support for pre-university staff seeking higher qualification – materialised in the coordination/ supervision of graduation to teachers in order to get the didactic degree I
- Effective academic, didactic and inter-personal communication support to several students at licence degree and master degree in the preparation, elaboration and presentation of papers in: university graduation diplomas, coordination/ supervision of students winning the I and II prize or mentions in scientific communication sessions

Mother tongue(s) **Specify mother tongue – romanian**

Other language(s)

Self-assessment

European level (\*)

**english**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
A2	Independent user	A2	Independent user	A1	Independent user	A1	Independent user	A1	Independent user

(\*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu)

Social skills and competences

Teamwork: acquired through participation in numerous interdisciplinary projects with local partners, national and international.

Organisational skills and competences	Organizational skills acquired by serving as: <ul style="list-style-type: none"> <li>- Scientific Secretary of the Faculty of Sciences since march 2008 to march 2012;</li> <li>- BIOMEG project (no 52144/01.10.2008-01.10-2011) director (PNCDI II) - project in partnership with Transylvania University of Brasov, Oradea University and Research and Agricultural Development Station of Livada;</li> <li>- staff member in the organization of conferences / symposia / workshops: OTEM 2006, OTEM 2007, ENSFI 2007, ZEMIP 2008-2010, RIVAM 2008-2011, SMARTPACK 2012-2015.</li> </ul>
Technical skills and competences	The use of the modern equipments from Research Center of Chemistry-Biology Department <ul style="list-style-type: none"> <li>- Perkin-Elmer atomic absorption spectrophotometer Model AAnalyst 800 flame and graphite furnace;</li> <li>- Fourier transform infrared spectrometer (FT-IR);</li> <li>- TOC analyzer for solid and liquid samples;</li> <li>- DK6 mineralization unit with electronic programmer of power, time and temperature;</li> </ul>
Computer skills and competences	Microsoft Office Word 97-2003 and 2007, Microsoft Office Excel 97-2003 and 2007, SPSS 10.0.8
Driving licence	Driving licence - categories of vehicle B

## Selected papers:

1. [Testing the preserving activity of Ag-TiO<sub>2</sub>-Fe and TiO<sub>2</sub> composites included in the polyethylene during the orange juice storage](#),  
[A. Peter](#), [L. Mihaly Cozmuta](#), [A. Mihaly Cozmuta](#), [C. Nicula](#), [E. Indrea](#), [L. Barbu - Tudoran](#),  
(2014) Journal of Food Process Engineering,  
<http://onlinelibrary.wiley.com/doi/10.1111/jfpe.12116/abstract>
  2. [Adsorption of heavy metal cations by Na-clinoptilolite: Equilibrium and selectivity studies](#)  
[Mihaly-Cozmuta L.](#), [Mihaly-Cozmuta A.](#), [Peter A.](#), [Nicula C.](#), [Tutu H.](#), [Silipas D.](#), [Indrea E.](#)  
(2014) Journal of Environmental Management, 137, pp. 69-80.
  3. [Efficiency of cu/tio2 to remove salicylic acid by photocatalytic decomposition: Kinetic modelling](#)  
[Peter A.](#), [Mihaly-Cozmuta L.](#), [Mihaly-Cozmuta A.](#), [Nicula C.](#), [Tudoran L.B.](#), [Baia L.](#)  
(2014) Materials Technology, 29 (3) , pp. 129-133.
  4. [Photocatalytic efficiency of zeolite-based TiO<sub>2</sub> composites for reduction of Cu \(II\): Kinetic models](#)  
[Peter A.](#), [Mihaly-Cozmuta L.](#), [Mihaly-Cozmuta A.](#), [Nicula C.](#), [Barbu Tudoran L.](#), [Vulpoi A.](#), [Baia L.](#)  
(2014) International Journal of Applied Ceramic Technology, 11 (3), pp. 568-581.
  5. [Nano-food packaging: from efficiency in the conservation of food to legal consumer protection](#)  
[R. Apan](#); [A. Mihaly Cozmuta](#); [A. Peter](#); [C. Nicula](#); [L. Mihaly Cozmuta](#)  
(2014) AMFITEATRU ECONOMIC Volume: 16 Issue: 36 Pages: 397-415 Published: MAY 2014
  6. [Nitrate and nitrite content in various types of cucumbers and options to reduce it](#)  
[Nicula C.](#), [Sisestean M.](#), [Mihaly-Cozmuta A.](#), [Peter A.](#), [Mihaly-Cozmuta L.](#)  
(2013) Carpathian Journal of Food Science and Technology, 5 (1-2), pp. 36-44.
  7. [The uptake of heavy metals in phaseolus vulgaris and zea mays seeds harvested from polluted and unpolluted areas](#)  
[Nicula C.](#), [Peter A.](#), [Mihaly-Cozmuta L.](#), [Mihaly-Cozmuta A.](#)  
(2013) Carpathian Journal of Food Science and Technology, 5 (1-2), pp. 1-8.
  8. [Study the influence of work parameters on the leacheability of mineral elements into the coffee infusion](#)  
[Cozmuta A.M.](#), [Conea A.](#), [Peter A.](#), [Mihaly-Cozmuta L.](#), [Nicula C.](#)  
(2013) Carpathian Journal of Food Science and Technology, 5 (1-2), pp. 23-35.
  9. [Nanosensor based on Tio<sub>2</sub> for detection of oxygen in damaged vacuum packages](#)  
[Peter A.](#), [Balanean D.](#), [Mihaly-Cozmuta A.](#), [Mihaly-Cozmuta L.](#), [Nicula C.](#)  
(2013) Carpathian Journal of Food Science and Technology, 5 (1-2), pp. 9-12.
  10. [Combined use of paper or ldpe and natural extracts from satureja hortensis and allium sativum for the preservation of the summer salame](#)  
[Peter A.](#), [Roatis L.](#), [Nicula C.](#), [Mihaly-Cozmuta A.](#), [Mihaly-Cozmuta L.](#)  
(2012) Carpathian Journal of Food Science and Technology, 4 (2), pp. 18-27.
  11. [Curd cheese stored in modified packaging with extract of garlic and thyme: Variation of some physico-chemical parameters](#)  
[Nicula C.](#), [Lungu D.](#), [Peter A.](#), [Mihaly-Cozmuta A.](#), [Mihaly-Cozmuta L.](#)  
(2012) Carpathian Journal of Food Science and Technology, 4 (2) , pp. 1-8.
  12. [Accumulation of chlorophyll and carotenoids pigments in plants grown under artificial light](#)  
[Nicula C.](#), [Buie A.](#), [Bran O.](#)  
(2012) Carpathian Journal of Food Science and Technology, 4 (1), pp. 37-45.
  13. [Calcium- and ammonium ion-modification of zeolite amendments affects the metal-uptake of Hieracium piloselloides in a dose-dependent way](#)  
[Peter A.](#), [Mihaly-Cozmuta L.](#), [Mihaly-Cozmuta A.](#), [Nicula C.](#), [Indrea E.](#), [Tutu H.](#)  
(2012) Journal of Environmental Monitoring, 14 (10), pp. 2807-2814.
  14. [Chemical and sensory changes of different dairy products during storage in packages containing nanocrystallised TiO<sub>2</sub>](#)  
[Peter A.](#), [Nicula C.](#), [Mihaly-Cozmuta A.](#), [Mihaly-Cozmuta L.](#), [Indrea E.](#)  
(2012) International Journal of Food Science and Technology, 47 (7), pp. 1448-1456.
- Cited in:
- a. [Nano-titanium oxide doped with gold, silver, and palladium - Synthesis and structural characterization](#)  
[Ziemkowska W.](#), [Basiak D.](#), [Kurtycz P.](#), [Jastrzebska A.](#), [Olszyna A.](#), [Kunicki A.](#)  
(2014) Chemical Papers, 68 (7), pp. 959-968.
  - b. [Role of TiO<sub>2</sub> morphological characteristics in EVOH-TiO<sub>2</sub> nanocomposite films: Self-degradation and self-cleaning properties](#)  
[Christoforidis K.C.](#), [Kubacka A.](#), [Ferrer M.](#), [Cerrada M.L.](#), [Fernandez-Garcia M.](#), [Fernandez-Garcia M.](#)  
(2013) RSC Advances, 3 (22) , pp. 8541-8550.
  - c. [Efficacy of different chemicals on shelf life extension of parsley stored at two temperatures](#)  
[Ouzounidou G.](#), [Papadopoulou K.K.](#), [Asfi M.](#), [Mirtziou I.](#), [Gaitis F.](#)  
(2014) Carpathian Journal of Food Science and Technology, 48 (8), pp. 1640-1647.
  - e. [Antimicrobial nanostructures in food packaging](#)  
[De Azeredo H.M.C.](#)  
(2013) Trends in Food Science and Technology, 30 (1), pp. 56-69

- (2013) International Journal of Food Science and Technology, 48 (8), pp. 1610-1617.
- d. [Antimicrobial nanostructures in food packaging](#)  
[De Azeredo H.M.C.](#)  
(2013) Trends in Food Science and Technology, 30 (1), pp. 56-69
  - e. [Testing the preserving activity of nanostructured Ag-TiO<sub>2</sub> during the deposition of summer sausage and boneless chicken breast](#)  
[But A., Bertoti A.](#)  
(2012) Carpathian Journal of Food Science and Technology, 4 (1), pp. 9-16.
  - f. [Efficiency of the nano-packages based on ag-tio<sub>2</sub> in preserving the fresh cheese from cow milk and yogurt](#)  
[Mare A., Bob I.](#)  
(2012) Carpathian Journal of Food Science and Technology, 4 (1), pp. 22-30.
15. [Lead traceability along soil-melliferous flora-bee family-apiary products chain](#)  
[Mihaly Cozmuta A., Bretan L., Mihaly Cozmuta L., Nicula C., Peter A.](#)  
(2012) Journal of Environmental Monitoring, 14 (6), pp. 1622-1630.  
Citari:
- a. [Minor and trace-elements in apiary products from a historical mining district \(Les Malines, France\)](#)  
[Losfeld G., Saunier J.-B., Grison C.](#)  
(2014) Food Chemistry, 146, pp. 455-459.
  - b. [Phenolic constituents of Lamium album: Focus on isoscutellarein derivatives](#)  
[Pereira O.R., Domingues M.R.M., Silva A.M.S., Cardoso S.M.](#)  
(2012) Food Research International, 48 (1), pp. 330-335.
16. [The influence of pH on the adsorption of lead by Na-clinoptilolite: Kinetic and equilibrium studies](#)  
[Mihaly Cozmuta L., Mihaly Cozmuta A., Peter A., Nicula C., Bakatula Nsimba E., Tutu H.](#)  
(2012) Water SA, 38 (2), pp. 269-278.  
Cited in:
- a. [Beta-blockers in the environment: Part I. Mobility and hydrolysis study](#)  
[Maszkowska J., Stolte S., Kumirska J., Lukaszewicz P., Mioduszewska K., Puckowski A., Caban M., \(...\), Bialk-Bielinska A.](#)  
(2014) Science of the Total Environment, 493, pp. 1112-1121.
  - b. [Adsorption isotherms, kinetics and thermodynamic studies towards understanding the interaction between a microbe immobilized polysaccharide matrix and lead](#)  
[Manasi, Rajesh V., Rajesh N.](#)  
(2014) Chemical Engineering Journal, 248, pp. 342-351
  - c. [Adsorption of heavy metal cations by Na-clinoptilolite: Equilibrium and selectivity studies](#)  
[Mihaly-Cozmuta L., Mihaly-Cozmuta A., Peter A., Nicula C., Tutu H., Silipas D., Indrea E.](#)  
(2014) Journal of Environmental Management, 137, pp. 69-80.
  - d. [Photocatalytic efficiency of zeolite-based TiO<sub>2</sub> composites for reduction of Cu \(II\): Kinetic models](#)  
[Peter A., Mihaly-Cozmuta L., Mihaly-Cozmuta A., Nicula C., Barbu Tudoran L., Vulpoi A., Baia L.](#)  
(2014) International Journal of Applied Ceramic Technology, 11 (3), pp. 568-581.
  - e. [Polymeric sorbents for removal of Cr\(VI\) from environmental samples](#)  
[Pakade V., Chimuka L.](#)  
(2013) Pure and Applied Chemistry, 85 (12), pp. 2145-2160.
  - f. [Kinetic, equilibrium and thermodynamic modelling of the sorption of metals from aqueous solution by a silica polyamine composite](#)  
[Tutu H., Bakatula E., Dlamini S., Rosenberg E., Kailasam V., Cukrowska E.M.](#)  
(2013) Water SA, 39 (4), pp. 437-444.
  - g. [Calcium- and ammonium ion-modification of zeolite amendments affects the metal-uptake of Hieracium piloselloides in a dose-dependent way](#)  
[Peter A., Mihaly-Cozmuta L., Mihaly-Cozmuta A., Nicula C., Indrea E., Tutu H.](#)  
(2012) Journal of Environmental Monitoring, 14 (10), pp. 2807-2814.
17. [Dual efficiency of nano-structured TiO<sub>2</sub>/zeolyte systems in removal of copper \(II\) and lead \(II\) ions from aqueous solution under visible light](#)  
[Peter A., Indrea E., Mihaly-Cozmuta A., Mihaly-Cozmuta L., Nicula C., Tutu H., Bakatula E.](#)  
(2012) AIP Conference Proceedings, 1425, pp. 139-143.
18. [The influence of the type and concentration of amendments on the growth dynamics of Phaseolus vulgaris L.](#)  
[Nicula C., Peter A., Mihaly-Cozmuta L., Mihaly-Cozmuta A., Indrea E., Danciu V.](#)  
(2011) Analele Universității din Oradea - Fascicula Biologie, Tom. XVIII, Issue: 2, pp. 111-119
19. [The role of natural zeolite and of zeolite impregnated with ammonium ions to reduce the uptake of lead, zinc, copper and iron ions in Hieracium aurantium and Rumex acetosella grown on tailing ponds](#)  
[Peter A., Mihaly-Cozmuta L., Mihaly-Cozmuta A., Nicula C.](#)  
(2011) Analele Universității din Oradea - Fascicula Biologie Tom. XVIII, Issue: 2, pp. 128-135

19. [The role of natural zeolite and of zeolite modified with ammonium ions to reduce the uptake of lead, zinc, copper and iron ions in \*Hieracium aurantium\* and \*Rumex acetosella\* grown on tailing ponds](#)  
[Peter, A., Mihaly-Cozmuta, L., Mihaly-Cozmuta, A., Nicula, C.](#)  
 (2011) Analele Universității din Oradea - Fascicula Biologie Tom. XVIII, Issue: 2, pp. 128-135
20. [Efficiency of amendments based on zeolite and bentonite in reducing the accumulation of heavy metals in tomato organs \(\*Lycopersicon esculentum\*\) grown in polluted soils](#)  
[Peter A., Nicula C., Mihaly-Cozmuta A., Mihaly-Cozmuta L., Indrea E., Danciu V., Tutu H., Nsimba E.B.](#)  
 (2011) African Journal of Agricultural Research, 6 (21), pp. 5010-5023.
21. [The sorptive performance of microorganisms-zeolite systems to remove Cu<sup>2+</sup>, Zn<sup>2+</sup>, Cd<sup>2+</sup>, Fe<sup>2+</sup> and Pb<sup>2+</sup>](#)  
[Peter A., Marian M., Nicula C., Mihaly-Cozmuta L., Mihaly-Cozmuta A., Indrea E.](#)  
 (2011) Revue Roumaine de Chimie, 56 (9), pp. 847-852.
22. [Participation of the indigenous vs. alien herbaceous species to the constitution of vegetal layer on the Bozanta Mare tailing ponds](#)  
[Marian, M., Nicula, C., Mihaly-Cozmuta, L., Peter, A., Mihaly-Cozmuta, A.](#)  
 (2010) Analele Universității din Oradea - Fascicula Biologie Tom. XVII / 1, pp. 134-141
23. [Adaptive mechanisms of \*Phaseolus vulgaris\* and \*Zea mays\* seeds grown in agrocenoses prone to pollution with heavy metals](#)  
[Nicula, C., Marian, M., Mihaly-Cozmuta, L., Peter, A., Mihaly-Cozmuta, A.](#)  
 (2010) Analele Universității din Oradea - Fascicula Biologie, Tom. XVII / 1, pp. 152-157
24. [Vegetation dynamics depending on ecological particularities of Bozanta Mare \(Maramures County-Romania\) tailing pond: Case study](#)  
[Marian M., Cozmuta L.M., Varga C., Cozmuta A.M., Nour E.](#)  
 (2009) American Journal of Environmental Sciences 5(1):116-123  
 Cited in:
  - a. [Porosity investigation of Kosova's clay](#)  
[Sadiku M., Hasani N., Mele A.](#)  
 (2011) American Journal of Applied Sciences, 8 (11), pp. 1098-1100.
  - b. [Land use type pattern and woody species composition near human disturbed landscapes on mount makiling, Luzon Island](#)  
[Buot I.E., Osumi K.](#)  
 (2011) American Journal of Environmental Sciences, 7 (4), pp. 306-315.
25. [Strategies of heavy metal uptake by \*Phaseolus vulgaris\* seeds growing in metalliferous and non-metalliferous areas](#)  
[C. Varga, M. Marian, A. Peter, D. Boltea, L. Mihaly-Cozmuta, E. Nour](#)  
 (2009) Studia Universitatis Babeş-Bolyai, Chemia, LIV, 3, pp. 223-234
26. [Evaluation of the phytoremediation potential of the \*Salix caprea\* in tailing ponds](#)  
[Camelia Varga, Monica Marian, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, Lucia Mihalescu](#)  
 (2009) Analele Universitatii din Oradea, Tom XVII/1. ISSN 1224-5119, p. 141-149
27. [Applying artificial neural networks in the modelling of copper recovery process by ionic exchange in aqueous solutions](#)  
[Cozmuta L.M., Varga C., Marian M., Cozmuta A.M., Hlanganani T.](#)  
 (2008) Revista de Chimie, 59 (7), pp. 766-772.  
 Cited in:
  - a. [Mechanism of simultaneous removal of Ca<sup>2+</sup>, Ni<sup>2+</sup>, Pb<sup>2+</sup> and Al<sup>3+</sup> ions from aqueous solutions using Purolite® S930 ion exchange resin](#)  
[Stefan D.S., Meghea I.](#)  
 (2014) Comptes Rendus Chimie, 17 (5), pp. 496-502.
  - b. [Chemical composition and ions concentration in xanthoria parietina and phaeophyscia orbicularis lichenised fungi species from Iasi, North-Eastern Romania](#)  
[Pindaru D.M., Tanase C., Olariu R.I., Arsene C.](#)  
 (2013) Revista de Chimie, 64 (8) , pp. 808-814.
28. [The ecology of the phytocoeno-genesis process in the tailing ponds in Maramures county.](#)  
[Monica Marian, L. Mihaly-Cozmuta, Camelia Varga, Anca Mihaly-Cozmuta,](#)  
 (2008) Natura Montenegrina, nr. 7(3), p. 41-55, ISSN 1451-5776, Podgorica
29. [The growth dynamics of selected trees in sites polluted with heavy metals neighboring Baia Mare \(Romania\),](#)  
[Camelia Varga, Monica Marian, L. Mihaly-Cozmuta, Anca Mihaly-Cozmuta,](#)  
 (2008) Natura Montenegrina, nr. 7(3), p. 57-69, ISSN 1451-5776, Podgorica
30. [Variance analysis on different trees species depending on soil type – uncontaminated and heavy metals contaminated ones.](#)  
[Monica Marian, Camelia Varga, Leonard Mihaly-Cozmuta, Anca Mihaly Cozmuta, Lucia Mihalescu, Oana Rosca Mare, Cristian Blidar](#)  
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31. [Research regarding the alien plant species in the Satu Mare county.](#)  
[Monica Marian, Camelia Varga, Leonard Mihaly Cozmuta, Lucia Mihalescu, Oana Rosca Mare](#)  
 (2008) Analele Universitatii Vasile Goldis Arad, Seria Stiintele Vietii, Vol. 18/2008, ISSN 1453-1038, p. 359-365
32. [Evaluation of the phytoremediation potential of the \*Quercus petraea\* in tailing ponds](#)  
[Monica Marian, Camelia Varga, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta,](#)  
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32. [Evaluation of the phytoremediation potential of the \*Quercus petraea\* in tailing ponds](#)  
[Monica Marian](#), [Camelia Varga](#), [Leonard Mihaly-Cozmuta](#), [Anca Mihaly-Cozmuta](#),  
(2008) Studia Universitatis Vasile Goldis Arad, Seria Stiintele Vietii, Vol. 18/2008, ISSN 1453-1038, p.71-76
33. [Copper electrochemical recovery from wastewaters using graphite volumic cathode](#)  
[Cozmuta A.M.](#), [Cozmuta L.M.](#), [Varga C.](#)  
(2007) Revista de Chimie, 58 (12) , pp. 1232-1238