

CV and research activity of Peter Anca

Europass Curriculum Vitae			
Personal information	First name(s) Surname(s) Anca Peter		
Address(es)	T. Vladimirescu 74, Baia Mare, Romania		
Telephone(s)	-	Mobile:	004-0744-790308
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E-mail	peteranca@yahoo.com		
Nationality	romanian		
Date of birth	January 28, 1979		
Gender	female		
Desired employment / Occupational field			
Work experience			
Dates	<ul style="list-style-type: none"> - Sept. 2001- Febr. 2002 - chemistry teacher “Vasile Lucaciu” Highschool Baia Mare, Maramures County, Romania - Febr. 2002 – Febr. 2005 – preparator Chemistry-Biology Department, North University of Baia Mare, Maramures County, Romania - Febr. 2005 – Febr. 2008 - assistant Chemistry-Biology Department, North University of Baia Mare, Maramures County, Romania - Febr. 2008 –present - lecturer Department of Chemistry and Biology, Technical University of Cluj Napoca, North University Center, Faculty of Sciences 		
Occupation or position held	Lecturer Department of Chemistry and Biology, Technical University of Cluj Napoca, North University Center, Faculty of Sciences		
Main activities and responsibilities	Lectures and laboratory activities		
Name and address of employer	Technical University of Cluj Napoca, North University Center, Faculty of Sciences, Victor Babes 62, 430092, Baia Mare, Romania		
Type of business or sector	High education and research		
Education and training			
Dates	<ul style="list-style-type: none"> - 1997-2001 – licence degree - Biology-Chemistry Specialization, Faculty of Science, North University of Baia Mare - 2001-2002 - master degree – Applied Electrochemistry, Faculty of Chemistry and Chemical Engineering, Department of Physical-Chemistry, Babes-Bolyai University, Cluj-Napoca - 2002-2009 – doctoral studies, Chemistry Domain, Faculty of Chemistry and Chemical Engineering, Department of Physical-Chemistry, Babes-Bolyai University, Cluj-Napoca 		
Title of qualification awarded	Licence degree / Master degree / PhD		

Principal subjects/occupational skills covered	- Physical chemistry - Organic chemistry - Nanotechnologies – preparation, characterisation, photoactivity of the nano-structured aerogels based on TiO ₂ - Environmental chemistry and soil remediation									
Mother tongue(s)	Romanian									
Self-assessment	Understanding				Speaking				Writing	
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
English	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
French	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user
	(*) <i>Common European Framework of Reference for Languages</i>									
Social skills and competences	Communication, seriousness, punctuality, flexibility and adaptability									
Technical skills and competences	In the use of the equipments such as: device for supercritical drying of the gels, AAS spectrometer for metal concentration in solids, liquid samples, FTIR, Carbon Analyzer, UV-vis spectrometer,									
Computer skills and competences	Work in Microsoft programmes such as: word, excel, power point, in other programmes such as: Origin, Statistica, Kekule for chemical formulas, Curve expert, internet									
Driving licence	Category B									
Additional information	Scientific Referee for: <ul style="list-style-type: none"> - International Journal: Clean-Soil, Water, Air; - African Journal of Agricultural Research - International Journal of Food Science and Technology - Journal of Materials Science - Combinatorial chemistry & high throughput screening - International Journal of Applied Ceramic Technology 									

Selection of the ISI Web of Knowledge publications in the proposal domain:

1. **A. Peter**, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, A. Jastrzębska, P. Kurtycz, A. Olszyna, Morphology, structure and photoactivity of two types of graphene oxide-TiO₂ composites, accepted for publication, 2014, Chemical Papers, Ref.: Ms. No. 0699-14R2.

2. **Anca Peter**, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, Camelia Nicula, Lucian Barbu Tudoran, Adriana Vulpoi, Lucian Baia, *Photocatalytic Efficiency of Zeolite-Based TiO₂ Composites for Reduction of Cu (II): Kinetic Models*, International Journal of Applied Ceramic Technology, May/June 2014, 11(3), 568-581.

3. **Anca Peter**, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, Camelia Nicula, Lucian Barbu Tudoran, Lucian Baia, *Efficiency of Cu/TiO₂ to Remove Salicylic Acid by Photocatalytic Decomposition: kinetic modeling*, Materials Technology, (Mai 2014), 29(3), 129–133.

4. L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, **A. Peter**, C. Nicula, H. Tutu, Dan Silipas, Emil Indrea, *Adsorption of heavy metal cations by Na-clinoptilolite: Equilibrium and selectivity studies*, Journal of Environmental Management 137 (2014) 69-80.
5. **A. Peter**, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, E. Indrea, H. Tutu, *Calcium and ammonium ion-modification of zeolite amendments affects the metal-uptake of Hieracium piloselloides on a dose-dependent way*, Journal of Environmental Monitoring, 2012, 14, 2807-2814.
6. L. Mihaly Cozmuta, A Mihaly Cozmuta, **A Peter**, C Nicula, E Bakatula Nsimba and H Tutu, *The influence of pH on the adsorption of lead by Na-clinoptilolite: Kinetic and equilibrium studies*, Water SA, 2012, 38(2), 269-278.
7. L. Baia, L. Diamandescu, L. Barbu-Tudoran, **A. Peter**, G. Melinte, V. Danciu, M. Baia, *Efficient dual functionality of highly porous nanocomposites based on TiO₂ and noble metal particles*, Journal of Alloys and Compounds, 2011, 509, 2672-2678.
8. **A. Peter**, C. Nicula, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, E. Indrea, V. Danciu, H. Tutu, E. Bakatula Nsimba, [Efficiency of amendments based on zeolite and bentonite in reducing the accumulation of heavy metals in tomato organs \(Lycopersicum esculentum\) grown in polluted soils.](#) African journal of agricultural research, 2011, 6(21), 5010-5023.
9. **A. Peter**, M. Marian, C. Nicula, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, E. Indrea, [The sorptive performance of microorganisms-zeolite systems to remove Cu²⁺, Zn²⁺, Cd²⁺, Fe²⁺ and Pb²⁺](#), Revue Roumaine de Chimie, 2011, 56(9), 847-852.
10. **A. Peter**, L. Baia, M. Baia, E. Indrea, F. Toderas, V. Danciu, V. Cosoveanu, L Diamandescu, [Porous Au-TiO₂ aerogels nanoarchitectures for photodegradation processes](#), Journal of Optoelectronics and Advanced Materials, 2010, 12 (5), 1071-1077.
11. **Anca Peter**, Monica Baia, Felicia Toderas, Mihaela Lazar, Lucian Barbu-Tudoran, Virginia Danciu, *Photo-catalysts based on gold-titania composites*, Studia Universitatis Babes-Bolyai, Chemia, 2009, LIV, 3, 161-171.
12. L. Baia, M. Baia, **A. Peter**, V. Cosoveanu, V. Danciu, *Evaluating the thermal treatment parameters effect on the anatase nanocrystalites size of titania aerogels*, J. Optoelectron. Adv. Mater. 9 (3), 671-674 (2007).
13. **A. Peter**, I. C. Popescu, E. Indrea, P. Marginean and V. Danciu, *The influence of the heat treatment on the photoactivity of the TiO₂-SiO₂ aerogels*, Studia Universitatis Babes-Bolyai, CHEMIA, XII, 3, 105-111, (2007).
14. L. Baia, **A. Peter**, V. Cosoveanu, E. Indrea, M. Baia, J. Popp, V. Danciu, *Synthesis and nanostructural characterization of TiO₂ aerogel for photovoltaic devices*, Thin Solid Films, 511-512, 512-516 (2006).
15. **A. Peter**, L. Mihaly Cozmuta, A. Mihaly Cozmuta, C. Nicula, E. Indrea, L. Barbu - Tudoran, *Testing the preserving activity of Ag-TiO₂-Fe and TiO₂ composites included in the polyethylene during the orange*

juice storage, Journal of Food Process Engineering, 2014,
<http://onlinelibrary.wiley.com/doi/10.1111/jfpe.12116/abstract>

16. A. Peter, C. Nicula, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, E. Indrea, [Chemical and sensory changes of different dairy products during storage in packages containing nanocrystallised TiO₂](#), International Journal of Food Science and Technology, 2012, 47(7), 1448-1456.

17. R. Apan, A. Mihaly Cozmuta, A. Peter, C. Nicula, L. Mihaly Cozmuta, *Nano food packages: from food preservation efficiency no consumer legal protection*, Amfiteatru Economic, Vol XVI • No. 36 • May 2014, 397-415.

Patent: Process for mineralisation through photocatalysis of organic pollutants from waste waters, Danciu Virginia, Cosoveanu Veronica, Peter Anca, Moldovan Zaharie, Nutiu George, Patent no. 122840, accorded basis on the Romanian Law 64/1991.

Project leader:

- 1) Smart functions of packages containing nano-structured materials in food preservation (SMARTPACK), MNT-ERANET, 2012-2015, contract no.7-065/26.09.2012
- 2) Advanced, nanostructured materials such aerogels with applications to environment depollution by heterogeneous photocatalysis, TD Research Project, T13 CNCSIS 44/2005, 2005-2007

Projects where the project leader was team member:

- 3) CNMP – Bilateral projects Romania- South Africa - Developing of a biophysical system based on zeolites-microorganisms-vegetal species for ecoremediation of tailing ponds coming from gold-silver preparation industry, ZEMIP, contract no. 82/2008, 2009-2011.
- 4) CNMP-PNCD 2 Contract No. 31010/14.09.2007 - Monitoring the microbiotic soil action with the aim of use to ecological rehabilitation of decantation lakes, AMSREI, 2007-2010
- 5) CNMP-PNCD 2 – Heavy metals bioaccumulation in soil-vegetables-human chain, BIOMEG, no. 52144/2008, 2008-2011
- 6) CNMP-PNCD 2 - Rehabilitation of decantation lakes by soil liming and by vegetable species cultivation with high hard metals content adaptableness, RIVAM, 2008-2011
- 7) MATNANTECH C 101 : Advanced, multifunctional materials based on TiO₂ and carbon, 2002 – 2004.
- 8) MATDECON-PN II 71-099/2007: Materiale fotocatalitice inovative aplicate la decontaminarea chimica si microbiologica a aerului din incinte, 2007-2010.
- 9) NOSIVTEL-PN II 71-099/2007: Noi sisteme vitroase telurate si germanate cu aplicatii in telecomunicatii,2007-2010.
- 10) NANOSENS 243(407)2004: Dispozitive fotovoltaice avansate pe bază de straturi nanocristaline de TiO₂ sensibilizat, 2004-2006.
- 11) TIABIS 205(403)2004: Biomateriale pe bază de noi structuri de aerogeluri formate din polimeri naturali, TiO₂, silicați, cu aplicații dirijate, 2004-2006

12) CEEEX 23/2005: Nanomateriale si filme nanostructurate pe baza de TiO_2 pentru aplicatii fotocatalitice in domeniul degradarii compusilor organici poluanti ai mediului, 2005-2008

13) CEEEX 16/2005: Tehnologii integrate pentru obtinerea de biocompozite nanostructurate cu aplicatii in medicina regenerativa a tesutului osos, 2006-2007.

Books:

1. **Anca Peter**, Camelia Nicula, *Chimia compusilor cu functiuni simple si a alimentelor*, Ed. Risoprint, 2011
ISBN: 978-973-53-0530-7, 201 p.

2. **Anca Peter**, Virginia Danciu, *Aerogeluri pe baza de TiO_2 cu aplicatii la depoluarea mediului*, Ed. Risoprint, Cluj-Napoca, 2010, ISBN: 978-973-53-0353-2, p.158 p.

3. **Camelia Nicula; Anca Peter**, "400 de itemi grila pentru Biochimie", Autori:, 2014, 67p, ISBN 978-973-53-1449-1