


## CV si activitate cercetare Peter Anca

<b>Europass Curriculum Vitae</b>			
<b>Informatii personale</b>	Prenume si nume <b>Anca Peter</b>		
Adresa	T. Vladimirescu 74, Baia Mare, Romania		
Telefon	-	Mobil:	004-0744-790308
Fax	004-0262-275368		
E-mail	peteranca@yahoo.com		
Nationalitate	romana		
Data nasterii	28 ianuarie 1979		
sex	feminin		
<b>Loc de munca</b>			
Data	<ul style="list-style-type: none"> <li>- Sept. 2001- Febr. 2002 - profesor de chimie Liceul "Vasile Lucaciu" Baia Mare, Maramures</li> <li>- Febr. 2002 – Febr. 2005 – preparator departamentul Chimie-Biologie, Universitatea de Nord din Baia Mare</li> <li>- Febr. 2005 – Febr. 2008 - asistent departamentul Chimie-Biologie, Universitatea de Nord din Baia Mare</li> <li>- Febr. 2008 –prezent - sef lucrari departamentul Chimie-Biologie, Universitatea Tehnica din Cluj Napoca, Centrul Universitar Nord din Baia Mare</li> </ul>		
Ocupatia si pozitia	sef lucrari departamentul Chimie-Biologie, Universitatea Tehnica din Cluj Napoca, Centrul Universitar Nord din Baia Mare		
Activitati si responsabilitati principale	Efectuare ore de curs si laborator		
Numele si adresa angajatorului	Universitatea Tehnica din Cluj Napoca, Centrul Universitar Nord din Baia Mare, Facultatea de Stiinte, Victor Babes 62, 430092, Baia Mare, Romania		
Tipul de institutie	Institutie de invatamant superior si cercetare		
<b>Educatie si instruire</b>			
Date	<ul style="list-style-type: none"> <li>- 1997-2001 – licenta - specializarea Biologie-Chimie, Facultatea de Stiinte, Universitatea de Nord din Baia Mare</li> <li>- 2001-2002 - master - Electrochimie Aplicata, Facultatea de Chimie si Inginerie Chimica, Universitatea Babes-Bolyai Cluj Napoca</li> <li>- 2002-2009 – doctorat, domeniul Chimie, Facultatea de Chimie si Inginerie Chimica, Universitatea Babes-Bolyai Cluj Napoca</li> </ul>		
Titlul stiintific obtinut	licentiat/master/ doctor		

Domenii de expertiza	- Chimie fizica -Chimie organica - Nanotehnologii – prepararea, caracterizarea, fotoactivitatea si aplicatiile materialelor nanostructurate pe baza de TiO2 - Chimia mediului si remedierea solului							
Limba materna	<b>Romana</b>							
<i>Nivel European (*)</i>	Ascultat		citit		Vorbit - interactiune		Vorbit - initiere dialog	
<b>Engleza</b>	B1	Inde pendent	B1	Indepen dent	B1	Independent	B1	Independent
<b>Franceza</b>	A2	Basic	A2	Basic	A2	Basic	A2	Basic
	(*) <a href="#"><i>Common European Framework of Reference for Languages</i></a>							
Abilitati sociale si competente	Comunicare, seriozitate, punctualitate, flexibilitate si adaptabilitate							
Abilitati si competente tehnice	In utilizarea echipemntelor de cercetare: sistem de uscare supercritica, spectrometru de absorbtie atomica, spectrometru FTIR, analizor de carbon, spectrometru UV-VIS							
Abilitati si competente cu calculatorul	Lucru in programele word, excel, power point, Origin, Statistica, Kekule pentru formule chimice, Curve expert, internet							
Licenta de conducere	Categoría B							
<b>Alte informatii</b>	Referent stiintific pentru: - 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							

## Activitatea de cercetare

### Selectie a publicatiilor ISI Web of Knowledge in domeniul propunerii de proiect:

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-TiO<sub>2</sub> 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 TiO<sub>2</sub> 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/TiO<sub>2</sub> 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 TiO<sub>2</sub> 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 Cu<sup>2+</sup>, Zn<sup>2+</sup>, Cd<sup>2+</sup>, Fe<sup>2+</sup> and Pb<sup>2+</sup>](#), 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-TiO<sub>2</sub> 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 TiO<sub>2</sub>-SiO<sub>2</sub> 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 TiO<sub>2</sub> 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-TiO<sub>2</sub>-Fe and TiO<sub>2</sub> 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 TiO<sub>2</sub>\*](#), 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.

**Brevet de inventie:** 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.

**Director proiect:**

- 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

**Proiecte in care Anca Peter a fost membra a echipei de cercetare:**

- 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 TiO<sub>2</sub> 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 TiO<sub>2</sub> sensibilizat, 2004-2006.

- 11) TIABIS 205(403)2004: Biomateriale pe bază de noi structuri de aerogeluri formate din polimeri naturali, TiO<sub>2</sub>, silicați, cu aplicații dirijate, 2004-2006
- 12) CEEEX 23/2005: Nanomateriale și filme nanostructurate pe baza de TiO<sub>2</sub> pentru aplicații fotocatalitice în domeniul degradării compusilor organici poluanți ai mediului, 2005-2008
- 13) CEEEX 16/2005: Tehnologii integrate pentru obținerea de biocompozite nanostructurate cu aplicații în medicina regenerativă a țesutului osos, 2006-2007.

#### **Carti:**

1. **Anca Peter**, Camelia Nicula, *Chimia compusilor cu funcțiuni simple și a alimentelor*, Ed. Risoprint, 2011  
ISBN: 978-973-53-0530-7, 201 p.
2. **Anca Peter**, Virginia Danciu, *Aerogeluri pe baza de TiO<sub>2</sub> cu aplicații 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