



**Europass  
Curriculum Vitae**



**Date personale**

Nume / Prenume **Carmen Ioana Fort (Ladiu)**  
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Cetățenia romana

Data nașterii May, 17<sup>th</sup>, 1977

**Educație și poziție  
academică**

Perioada **2007 - prezent**  
Poziția ocupată Cercetător științific III  
Activități, responsabilități specific research activities, as member, in scientific research projects  
Numele și adresa angajatorului Facultatea de chimie și inginerie chimică, Departamentul de inginerie chimică, Babes-Bolyai University, Arany Janos, 11, 400028, Cluj-Napoca  
Tipul activității sau sectorul de activitate cercetare  
Perioada **Septembrie 2011 – 2013**

Pozitia ocupata	Student POSTDOC in cadrul proiectului POSDRU/89/1.5/s/60189 „Postdoctoral Programs for Sustainable Development in a Knowledge Based Society”
Activitati, responsabilitati	Research specific activities as postdoctoral scholarship
Numele si adresa angajatorului	Laboratory of Electrochemical Research and Nonconventional Materials, Facultatea de chimie și inginerie chimică
Perioada	<b>Februarie 2007</b>
Calificarea / diploma obținută	Doctor
Numele și tipul instituției de învățământ	Facultatea de chimie și inginerie chimică, Babes-Bolyai University, Arany Janos, 11, 400028, Cluj-Napoca
Perioada	<b>Iulie 2001</b>
Calificarea / diploma obținută	Masters Diploma in Physical-Chemistry (Masters Programme Courses Applied Electrochemistry)
Numele și tipul instituției de învățământ	Facultatea de chimie și inginerie chimica, Babes-Bolyai University, Arany Janos, 11, 400028, Cluj-Napoca
Perioada	<b>Iulie 2000</b>
Calificarea / diploma obținută	Licence diploma, Chemistry (principal) and Physics (secundar) specialties (University courses program of the Physical Chemistry Department; Teaching Competence Certificate); Language proficiency certificate for English
Numele și tipul instituției de învățământ	Chemistry and Chemical Engineering Faculty, Babes-Bolyai University, Arany Janos, 11, 400028, Cluj-Napoca
Perioada	<b>Septembrie 1991 - Iulie 1995</b>
Calificarea / diploma obținută	Baccalaureate diploma; Following secondary school program, Informatics specialization
Numele și tipul instituției de învățământ	Theoretical secondary school <i>Andrei Muresanu</i> , Dej, Cluj
<b>Experiența profesională</b>	
Perioada	<b>Mai – Iunie 2011</b>
Pozitia ocupata	Bursa postdoctorala in cadrul proiectului POSDRU/89/1.5/s/60189 „Postdoctoral Programs for Sustainable Development in a Knowledge Based Society”
Activitati, responsabilitati	Research specific activities as postdoctoral scholarship
Numele si adresa angajatorului	Department of Biochemistry and Structural Biology, Lund University, Lund, Sweden, Prof. Lo Gorton

Perioada	<b>1 31 Martie 2009</b>
Pozitia ocupata	Scientific researcher III
Activitati, responsabilitati	Specific research activities, as member, in the <b>RO-HU nr 21/2008-2009</b> scientific research project, with Inorganic and Analytical Chemistry Department, Szeged University, Szeged, Hungary
Numele si adresa angajatorului	Chemistry and Chemical Engineering Faculty, Babes-Bolyai University, Arany Janos, 11, 400028, Cluj-Napoca
Tipul activității sau sectorul de activitate	research
Perioada	<b>Aprilie – Iulie 2004</b>
Pozitia ocupata	PhD student scholar
Activitati, responsabilitati	specific research activities, as PhD student, in scientific research project, Swedish Institute, Swedish Research Council
Numele si adresa angajatorului	Analytical Chemistry Department, Lund University, Lund, Sweden
Tipul activității sau sectorul de activitate	research
Perioada	<b>Octombrie – Decembrie 2003</b>
Pozitia ocupata	PhD student scholar
Activitati, responsabilitati	specific research activities, as PhD student, in scientific research project, Swedish Institute, Swedish Research Council
Numele si adresa angajatorului	Analytical Chemistry Department, Lund University, Lund, Sweden
Tipul activității sau sectorul de activitate	research
Perioada	<b>Septembrie 2002 – Iulie 2003</b>
Pozitia ocupata	PhD student scholar
Activitati, responsabilitati	specific research activities, as PhD student, in scientific research project, scholarship from Swedish Institute, Swedish Research Council
Numele si adresa angajatorului	Analytical Chemistry Department, Lund University, Lund, Sweden
Tipul activității sau sectorul de activitate	research
Perioada	<b>2005 - 2006</b>
Pozitia ocupata	<b>TD project manager</b>

Activitati, responsabilitati	specific research activities, as PhD student, in scientific research project
Numele si adresa angajatorului	Chemistry and Chemical Engineering Faculty, Babes-Bolyai University, Arany Janos, 11, 400028, Cluj-Napoca
Tipul activității sau sectorul de activitate	research
Perioada	<b>Octombrie 2001 – Februarie 2007</b>
Pozitia ocupata	PhD student
Activitati, responsabilitati	1. General research methods and scientific papers elaboration methods; 2. Statistics; 3. Electrochemistry;
Numele si adresa angajatorului	Chemistry and Chemical Engineering Faculty, Babes-Bolyai University, Arany Janos, 11, 400028, Cluj-Napoca
Tipul activității sau sectorul de activitate	research
Perioada	<b>Mai - Iunie 2001</b>
Pozitia ocupata	researcher
Activitati, responsabilitati	specific research activities,
Numele si adresa angajatorului	Engineering Science Department, University of Patras, Patras, Greece
Tipul activității sau sectorul de activitate	research
Perioada	<b>Octombrie 2000 - Iulie 2001</b>
Pozitia ocupata	Masters student in Physical-Chemistry
Activitati, responsabilitati	Masters Programme Courses Applied Electrochemistry
Numele si adresa institutiei	Chemistry and Chemical Engineering Faculty, Babes-Bolyai University, Arany Janos, 11, 400028, Cluj-Napoca
Perioada	<b>Octombrie 1996- Iulie 2000</b>
Pozitia ocupata	student
Activitati, responsabilitati	University courses program of the Physical Chemistry Department; Teaching Competence Certificate; Language proficiency certificate for English
Perioada	<b>Septembrie 1991 - Iulie 1995</b>
Pozitia ocupata	Elev, specializare informatica – analist programator
Numele si adresa institutiei	Liceul teoretic <i>Andrei Muresanu</i> , Dej, Cluj

**Domenii de cercetare**

Applied electrochemistry, Modified electrodes, Electrochemical (bio)/sensors, Electrode materials (aerogels, xerogels) Bioelectrochemistry. Biomedicals applications and environmental protection.

Limba materna

**romana**

Alte limbi

**English****French**

Understanding		Speaking				Writing			
Listening		Reading		Spoken interaction		Spoken production		Written production	
B2	Independent speaker	B2	Independent speaker	B2	Independent speaker	B2	Independent speaker	B2	Independent speaker
B2	Independent speaker	B2	Independent speaker	B2	Independent speaker	B2	Independent speaker	B2	Independent speaker

Competente organizatorice

Abilitatea de a coordona grupuri de studenti in cadrul lucrarilor de laborator si seminariilor – abilitate dobandita in cadrul programului de doctorat

Reviewer

Materials Chemistry and Physics

Competente practice

Masuratori electrochimice (CV, RDE, SWV), masuratori de suprafete specifice si de porozitate, masuratori spectrofotometrice, uscare in conditii supracritice (SAMDRI-PVT-3D, Tousimis, homemade) si interpretarea rezultatelor obtinute din aceste masuratori.

Competențe și cunoștințe de utilizare a calculatorului

Windows: Microsoft Office (Word, Excel, Power Point), Origin, Adobe Acrobat, Internet Explorer

Driving license

Driving license B category from 1996

**Informatii suplimentare****25 scientific papers (14 - ISI)**

1. C.I. Fort, Zs. Pap, E. Indrea, L. Baia, V. Danciu, M. Popa, Pt/N–TiO<sub>2</sub> Aerogel Composites Used for Hydrogen Production Via Photocatalysis Process, Catalysis Letters, 144 (2014)1955-1961, DOI: 10.1007/s10562-014-1353-y
2. L.C. Cotet, K. Briceño, C.I. Fort, V. Danciu, R. Garcia-Valls, D. Montané, Preparation, characterization and gas permeation investigation of resorcinol-formaldehyde polymer or carbon xerogels/tubular ceramic composites, Acta Chimica Slovenica; 60(2)(2013)343-50.
3. L.C. Cotet, C.I. Fort, V. Danciu, A. Maicaneanu, Alpha-Cypermethrin Pesticide Adsorption on Carbon Aerogel and Aerogel, Separation Science and Technology, 48(2013)2649-2658, DOI: 10.1080/01496395.2013.805782

4. I.C. Fort, I.E. Silai, D. Casoni, G.L. Turdean, Electrochemical study of isoprenaline and epinephrine at platinum-nanoparticles-chitosan modified graphite electrode, *Studia Universitatis Babes-Bolyai Chemia* 01/**2013**; 4(58):193
5. Carmen Ioana Fort, L.C. Cotet, V. Danciu, G. Turdean, Ionel Cătălin Popescu, Iron doped carbon aerogel - New electrode material for electrocatalytic reduction of H<sub>2</sub>O<sub>2</sub>, *MATERIALS CHEMISTRY AND PHYSICS*, 138 (**2013**) 893-898
6. L.C Cotet, C. I. Fort, V. Danciu, Influence Of Tubular TiO<sub>2</sub>-ZrO<sub>2</sub> Ceramic Support On The Morpho-Structural Properties Of The Undoped And Cu Doped Carbon Xerogels., *Studia Ubb Chemia*, 3(2012) 73-80
7. Carmen Ioana Fort, Ionel Cătălin Popescu, NADH oxidation at Meldola Blue modified glassy carbon electrodes. A comparative study, *Studia UBB CHEMIA*, 4(**2011**) 255 - 264
8. Dumitru Georgescu, Zsolt Pap, Monica Baia, Carmen I. Fort, Virginia Danciu, Georgian Melinte, Lucian Baia, Simion Simon, *PHOTOCATALYTIC ACTIVITY OF HIGHLY POROUS TiO<sub>2</sub>-AG MATERIALS*, *Studia Universitatis Babes-Bolya Chemia*, 56(**2011**)51-58
9. Carmen Ioana Ladiu, Ruben Garcia, Ionel Catalin Popescu, Lo Gorton, *NADH Electrocatalytic Oxidation at Glassy Carbon Paste Electrodes Modified with Meldola Blue Adsorbed on acidic alpha-Titanium Phosphate*, *Revista de chimie*, 58(**2007**)465-469
10. Carmen Ioana Ladiu, Ruben Garcia, Ionel Catalin Popescu, Lo Gorton, *NADH Electrocatalytic Oxidation at Glassy Carbon Paste Electrodes Modified with Meldola Blue Adsorbed on acidic alpha-Zirconium Phosphate*, *Rev. Roum. Chim.*, 52(**2007**)67-74
11. I.C. Ladiu, I.C. Popescu, Lo Gorton, NADH Electrocatalytic Oxidation at Carbon Paste modified Electrodes with Meldola Blue Adsorbed on Zirconium Phosphate, *J. Solid State Electrochem.*, 9(**2005**)296-303
12. I.C. Ladiu, V. Danciu, V. Cosoveanu, A. Rustoiu-Csavdari, P. Lianos, "Photodegradation of Basic Blue 45 Dye on Undoped and doped TiO<sub>2</sub> Films", *Rev. Roum. Chim.* 47(12) (**2002**) 1247-1253 (0.219)
13. I.C. Ladiu, V. Danciu, V. Cosoveanu, P. Lianos, Pure and doped mesoporous TiO<sub>2</sub> films made from reverse micelles and their use for the photocatalytic degradation of adsorbed Basic Blue dye *Studia Universitatis Babes-Bolya Chemia*, 46, 1(2), (**2001**) 233 - 246
14. V. Danciu, V. Cosoveanu, E. Barabas, I.C. Ladiu Influence of ultrasounds in electrochemical processes *Studia Universitatis Babes-Bolyai Chemia*, 44(1)(**1999**) 225-234

Scientific papers - journals  
from international data  
base:

15. C. I. Ladiu, Ionel Catalin Popescu, Ruben Garcia, Lo Gorton, Electrocatalytic Oxidation of NADH at Glassy Carbon Paste Electrodes Modified with Meldola Blue Adsorbed on amorphous and crystalline Zirconium Phosphate, *Chem. Bull. Politehnica* (Univ. Timisoara), 49(2005)51
16. V. Danciu, V. Cosoveanu, E. Grünwald, I.C. Ladiu, The Regal AZ -type additives influence on zinc electrodeposition from weak-acid electrolyte *U.P.B. Sci. Bull., Series D*, 63(1)(2001) 263-272
17. E.Grünwald, V. Danciu, V. Cosoveanu, C.I. Ladiu, Vergleichende Untersuchungen über cyanidfreie Zinkelektrolyte mit Natrium-bzv. Kaliumhydroxid. II. Eigenschaften der Electrolyte *Galvanotechnik*, 92(3)(2001) 651-657
18. Grünwald E., Jumatate N., Danciu V., Cosoveanu V., Ladiu I.C., Natrium- és kálium-hidroxid tartalmú lúgos, cianidmentes horgonyfurdók összehasonlító vizsgálatá III. Horgonybevonatok tulajdonságai *Korrozios Figyelo*, 41(1)(2001)11-17
19. V. Danciu, V. Cosoveanu, E. Grünwald, I.C. Ladiu, "The Regal AZ - type additives influence on zinc electrodeposition from weak-acid electrolyte" *U.P.B. Sci. Bull., Series B*, 63(3) (2001) 83-92
20. V. Danciu, V. Cosoveanu, E. Grünwald, V. Andronic, M. Dronca, I. C. Ladiu "Influenta aditivilor de tip AZ-Regal asupra electrodepunerii zincului din electrolit pe baza de ZnCl<sub>2</sub>" *Buletinul Științific (Univ. de Nord, Baia-Mare)*, seria B, Chimie-Biologie, XIV, (2001) 26-33
21. V.Danciu, V. Cosoveanu, C.I. Ladiu, E. Grünwald, Vergleichende Untersuchungen über cyanidfreie Zinkelektrolyte mit Natrium-bzv. Kaliumhydroxid. I. Allgemeine Beobachtungen *Galvanotechnik* 91(12)(2000)3364-3373
22. Danciu V., Cosoveanu V., Ladiu I. C., Grünwald E. Natrium es kalium hidroxid tartalmu lúgos, cianidmentes horgonyfurdok összehasonlító vizsgálatá. I.Általános megfigyelesek, *Korrozios Figyelo*, 40(5)(2000)167-174 (Comparative testing of cyanide-free electrolytes containing sodium and potassium hydroxide as well as zinc salt. I. General observations)

Scientific papers  
proceedings:

23. Cotet, L. C.; Fort, C. I.; Danciu, V.; et al., Cu and Cd Adsorption on Carbon Aerogel and Aerogel, Proceedings of the 16th International Conference on Heavy Metals in the Environment Volume: 1 Published: 2013, DOI: 10.1051/e3sconf/20130125007

24. A. Nicoara, V. Cosoveanu, I.C. Ladiu, L. Baia, M. Baia, L. Muresan, I. Stamatina, V. Danciu, *Zirconia Aerogel - Polyxometalate Composites Synthesis with Applications in Solid Oxide/Acid Fuel Cells*, Clean Technology **2008**, Proceedings [Chapter 5: Fuel Cell & Hydrogen Technologies](#), Pages:298 - 301
25. C.I. Ladiu, I.C. Popescu, R. Garcia, Lo Gorton, *Electrocatalytic oxidation of NADH at glassy carbon paste electrodes modified with Meldola Blue adsorbed on crystalline zirconium and titanium phosphate*, Proc. of the Roumanian International Conference on Chemistry and Chemical Engineering XIV, Bucharest, 22-24 Sept. **2005**, Secțiunea 10, p. 11-18

**Conferences (31 national and international):**

1. V. Danciu, V. Cosoveanu, E. Grünwald, I.C. Ladiu, Comparative study of the K<sup>+</sup> and Na<sup>+</sup> influence on zinc electrodeposition in alkaline solutions, The 10th Conference on Physical Chemistry, Iasi, Romania, sept. **2000**
2. V. Danciu, V. Cosoveanu, E. Grünwald, I.C. Ladiu, Influenta aditivilor de tip AZ-Regal asupra electrodepunerii zincului din electrolit pe baza de ZnCl<sub>2</sub>, Simpozionul aniversar 40 de ani de invatamant superior baimarean, Baia-Mare, 15-16 mai, **2001**
3. I. C. Ladiu, V. Danciu, V. Cosoveanu, P. Lianos, Pure and doped mesoporous TiO<sub>2</sub> films made from reverse micelles and their use for the photocatalytic degradation of adsorbed Basic Blue dye, Simpozion 30 ani invatamant de inginerie chimica la Cluj-Napoca, 1971-2001, 6-8 sept. **2001**
4. V. Danciu, V. Cosoveanu, E. Grünwald, I. C. Ladiu, The Regal AZ - type additives influence on zinc electrodeposition from weak-acid electrolyte, Simpozion ELFI, Bucuresti 13-15 sept. **2001**
5. I.C. Ladiu, V. Danciu, V. Cosoveanu, P. Lianos, Obtaining of TiO<sub>2</sub> films by sol-gel method from reverse micelles, Simpozion "Sol-Gel Chemistry and Technology. Results and Future trends", ediția a 5-a, Academia Romana, 26-28 sept. **2001 (oral presentation)**
6. I. C. Ladiu, I.C. Popescu, Lo Gorton, NADH Electrocatalytic Oxidation at Carbon Paste modified Electrodes with Meldola Blue Adsorbed on Zirconium Phosphate, Simpozion The 7th Meeting on Electrode Reaction Mechanism and Interfacial Structure, Königstein, Germany 3-6 apr. **2003 (oral presentation)**
7. Lo Gorton, I.C. Ladiu, I.C. Popescu, F.D. Munteanu, L.T. Kubota, A. Kuhn, Electrocatalytic Oxidation of NADH at Electrodes Modified with Different Dyes Immobilised on Zirconium Phosphate. Effect of Addition of Cations on the Rate Constant, XVIIth international Symposium on Bioelectrochemistry and Bioenergetics, Florence, Italy, 19-24 June, **2003**



8. I.C. Ladiu, I.C. Popescu, Lo Gorton, NADH Electrocatalytic Oxidation at Glassy Carbon Paste Electrodes Modified with Meldola Blue Adsorbed on alpha-Zirconium Phosphate, The 10th International European Society for ElectroAnalytical Chemistry, Galway, Ireland 6-10 June **2004** (poster)
9. I.C. Ladiu, R. Garcia, I.C. Popescu, Lo Gorton, NADH Electrocatalytic Oxidation at Glassy Carbon Paste Electrodes Modified with Meldola Blue Adsorbed on alpha-Zirconium Phosphate, The 55th International Society of Electrochemistry, Thessaloniki, Greece, 19-24 September **2004** (poster)
10. I.C. Ladiu, I.C. Popescu, R. Garcia, Lo Gorton, NADH Electrocatalytic Oxidation at Glassy Carbon Paste Electrodes Modified with Meldola Blue Adsorbed on Amorphous and Chrystalline Zirconium Phosphate, Zilele academice timisene, Editia a IX-a, Universitatea "POLITEHNICA" din Timișoara, Facultatea de Chimie Industrială și Ingineria Mediului, , 26-27 mai **2005** (oral presentation)
11. I.C. Ladiu, I.C. Popescu, R. Garcia, Lo Gorton, NADH Electrocatalytic Oxidation at Glassy Carbon Paste Electrodes Modified with Meldola Blue Adsorbed on alpha -Titanium Phosphate, Journees d'Electrochimie, 5-8 iulie **2005**, Saint Malo, Franta (poster)
12. I.C. Ladiu, I.C. Popescu, R. Garcia, Lo Gorton, NADH Electrocatalytic Oxidation at Glassy Carbon Paste Electrodes Modified with Meldola Blue Adsorbed on Chrystalline Zirconium and Titanium Phosphates, Romanian International Conference on Chemistry and Chemical Engineering, Bucuresti, 22- 24 septembrie **2005** (oral presentation)
13. I.C. Ladiu, I.C. Popescu, R. Garcia, Lo Gorton, A comparative study on NADH electrocatalytic oxidation at glassy carbon paste electrodes modified with Meldola Blue immobilised on different adsorbents, International Conference on Physical Chemistry Romphyschem - 12 , Bucuresti, 6-8 septembrie **2006** (poster)
14. I.C. Ladiu, I.C. Popescu, R. Garcia, Lo Gorton, A Comparative Study on NADH Electrocatalytic Oxidation at Glassy Carbon Paste Electrodes Modified with Meldola Blue Adsorbed on  $\alpha$ -Zirconium Phosphate or  $\alpha$ -Titanium Phosphate, 11th International Conference on Electroanalysis, Bordeaux 11-15 iunie **2006**, France (poster)
15. A. Nicoara, V. Cosoveanu, I.C. Ladiu, L. Baia, M. Baia, L. Muresan, I. Stamatina, V. Danciu, [Zirconia Aerogel-Polyxometalate Composites Synthesis with Applications in Solid Oxide/Acid Fuel Cells](#), NANOTECH 2008 - CLEAN TECHNOLOGY CONFERENCE, BOSTON, MASSACHUSETTS JUNE 1-5, **2008**, USA (poster)
16. I.C. Ladiu, P. Marginean, L.C. Cotet, L. Barbu-Tudoran, E. Indrea, V. Danciu, *Pt-Ru/Carbon aerogels with application in direct methanol fuel-cells*, Journees d'Electrochimie **2009**, Sinaia, 6-10 iulie, Romania (poster)

17. Z. Pap, I.C. Ladiu, K. Mogyorosi, A. Dombi, E. Indrea, V. Danciu, *Synthesis of nanosized N-doped TiO<sub>2</sub> in extreme pH conditions*, Nanotech Insigh 09, Barcelona, 29.03-03.04 **2009**, Spain (poster)
18. M. Popa, L. Baia, I.C. Ladiu, E. Indrea, V. Cosoveanu, P. Pascuta, V. Danciu, *The synthesis and characterization of nitrogen doped TiO<sub>2</sub> aerogel and its photocatalytic activity*, Nanotech Insigh 09, Barcelona, 29.03-03.04 **2009**, Spain (poster)
19. Z. Moldovan, I. Glajar, V. Danciu,, I.C. Ladiu, E. Baru, M. Pascalau, *Organic pollutants photodegradation using TiO<sub>2</sub> as nanostructured catalyst*, Nanotech Insigh 09, Barcelona, 29 mar -03 apr **2009**, Spain (poster)
20. I. Glajar, Z. Moldovan, V. Danciu, I.C. Ladiu, E. Baru, M. Pascalau, *Photodegradation of the indoor organic pollutants by UV irradiation using TiO<sub>2</sub> catalyst*, Procesess in isotopes and molecules, Cluj-Napoca, 24-26 septembrie **2009**, Romania (poster)
21. Z. Moldovan, I. Glajar, V. Danciu, I.C. Ladiu, E. Baru, M. Pascalau, *Organic pollutants photodegradation using TiO<sub>2</sub> as nanostructured*, Tudomany Hete Dunaujvarosi Foiskolan, Dunaujvarosi, 9-14 noiembrie **2009**, Hungary (poster)
22. Peter A., Mihaly-Cozmuta L.M., Nicula C., Marian M., Ladiu I., Mihaly-Cozmuta A.M., *Role of the bentonite and microbiota mix to restore vegetation on polluted sites, 19th International Workshop of European Vegetation Survey, „Flora, Vegetation, Environment and Land-use at Large Scale”, 27 April – 02 May 2010, University of Pécs, Hungary*
23. C. I. Fort, L. C. Cotet, V. Danciu, I. C. Popescu, *NADH Electrocatalytic Oxidation at Glassy Carbon Electrodes Modified with Meldola Blue Adsorbed on Carbon Aerogel*, *Journées d'Electrochimie 2011*, Grenoble 4-8 iulie, Franta
24. C.I. Fort, L.C. Cotet, M. Pascalau, V. Danciu, I.C. Popescu, *Pt-Ru nanoparticles immobilized onto carbon aerogel for direct methanol fuel-cells*, Fourth International Symposium on advanced micro- and mesoporous materials, Riviera resort, 6 – 9 septembrie. **2011**, Bulgaria
25. L.C. Cotet, C.I. Fort, V. Danciu, A. Maicaneanu, *Pesticide adsorption on carbon aerogel and xerogel*, Fourth International Symposium on advanced micro- and mesoporous materials, Riviera resort, 6 – 9 septembrie. **2011**, Bulgaria
26. C. I Fort, L C Cotet, G Turdean, V Danciu, I C Popescu, *H<sub>2</sub>O<sub>2</sub> electrocatalytic reduction at carbon paste electrodes modified with Fe doped carbon aerogel*, Processes in isotopes and molecules, **2011**, September 29 - October 01, Cluj-Napoca, Romania
27. L.C. Cotet, C.I. Fort, V. Danciu, A. Maicaneanu, *Wet air oxidation of phenol using copper doped carbon aerogel and xerogel as catalysts*, Processes in isotopes and molecules, **2011**, September 29 - October 01, Cluj-Napoca, Romania

**Research experience in 18 national and international projects (1 as a project manager)**

28. M. Baia, D. Georgescu, C.I. Fort, V. Danciu, G. Melinte, S. Simon, Photocatalytic activity of highly porous TiO<sub>2</sub>-Ag materials, *Book of Abstracts of the Advanced Spectroscopies on Biomedical and Nanostructured Systems BioNanoSpec*, 4-7 sept. **2011**, Cluj-Napoca, Romania, 94
29. L.C. Cotet, C.I. Fort, V. Danciu, A. Maicaneanu, Cu and Cd Adsorption on Carbon Aerogel and Xerogel, the International Conference on Heavy Metals in the Environment (ICHMET 2012), Rome, Italy, **2012**
30. L.C. Cotet, R. Deac, C.I. Fort, K. Maghiari, A. Vulpoi, L. Baia, V. Danciu, Very large area of graphene-based materials synthesized by an improved top-down method, 11th International Conference on Nanosciences & Nanotechnologies – NN14, 8 - 11 July **2014**, Thessaloniki, Greece
31. L.C. Cotet, R. Deac, C.I. Fort, K. Maghyari, L. Baia, G. Turdean, V. Danciu, L. Muresan, Synthesis and characterization of monolithic carbon xerogels/aerogel impregnated with bismuth nanoparticles for electrochemical sensing application, 11<sup>th</sup> International Conference on Nanosciences & Nanotechnologies – NN14, 8 - 11 July **2014**, Thessaloniki, Greece

Perioada	<b>2013-2015</b>
Proiect de cercetare	<b>Colaborare bilaterala RO-HU 661/2013</b> Nanocompozite cu diferite geometrii cristaline de TiO <sub>2</sub> , WO <sub>3</sub> , metale nobile (Au, Pt) si nanotuburi de carbon prin "șahul științei materialelor" (Acronim-NANOSAH)
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	CS II Virginia Danciu
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
Perioada	<b>2012-2015</b>
Proiect de cercetare	<b>MNT ERA-NET 7-065</b> Smart functions of packages containing nano-structured materials in food preservation (SMARTPACK)

Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	CS II Virginia Danciu
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
Perioada	<b>2012-2014</b>
Proiect de cercetare	<b>Colaborare bilaterala RO-GR 578/2012</b> Efficient wastewater with nanocrystalline transient metal oxides modified with noble metals and nonmetals
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	CS II Virginia Danciu
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
Perioada	<b>2007-2010</b>
Proiect de cercetare	PN II nr. 71-099/2007, New vitreous germanium and tellurite systems with telecommunication applications
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	Technical University, Cluj-Napoca, Prof. E. Culea
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
<i>Perioada</i>	<b>2007-2010</b>
Proiect de cercetare	PN II nr. 71-136/2007, Innovative photocatalytic material applied to chemical and microbiological decontamination of the indoor air
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	Babes-Bolyai University, Cluj-Napoca, CS II Virginia Danciu
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
<i>Perioada</i>	<b>2008-2009</b>
Proiect de cercetare	bilateral collaboration RO-HU nr 21/2008-2009: Preparation and Characterization of Visible Light Activated Photocatalysts for Water and Air Decontamination
Principalele activitati si responsabilitati	Research team member

Numele coordonatorului de proiect	Babes-Bolyai University, Cluj-Napoca, CS II Virginia Danciu
Beneficiarul proiectului	<u>Universitatea Babes-Bolyai, Cluj-Napoca</u>
Perioada	<b>2006-2010</b>
Proiect de cercetare	COST Action 540, Photocatalytic technologies and novel nanosurfaces materials –critical issues (PHONASUM)
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	Babes-Bolyai University, Cluj-Napoca, CS II Virginia Danciu
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
<i>Perioada</i>	<b>2006-2008</b>
Proiect de cercetare	CEEX-MENER 704/2006, New generation of fuel cell with superacid solid electrolyte, used at 200-300°C
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	3Nano-SAE research center; Physics Faculty, Bucuresti University, Prof. Ioan Stamatina
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
<i>Perioada</i>	<b>2006-2008</b>
Proiect de cercetare	CEEX-MENER 710/2006, Photoelectrolytic hydrogen production
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	INCDTIM, Cluj-Napoca, CS I Emil Indrea
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
<i>Perioada</i>	<b>2006-2008</b>
Proiect de cercetare	CEEX-MENER 760/2006, Fuel cells system for direct bio-alcohols electrooxidation (BioDAFC)
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	3Nano-SAE research center; Physics Faculty, Bucuresti University, Prof. Ioan Stamatina
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca

Perioada	<b>2006-2008</b>
Proiect de cercetare	CEEX Matnantech 1147/2005, contract 16 Integrated technologies for nanostructured biocomposites obtaining with applications in bone regenerative medicine - TECOREMED
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	ICECHIM Bucuresti, CS I Z. Vuluga
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
Perioada	<b>2005-2006</b>
Proiect de cercetare	Grant CNCSIS-TD-9/42-2005-2006, Modified electrodes with semiconductors materials for NADH mediated oxidation
Principalele activitati si responsabilitati	<b>project manager</b>
Numele coordonatorului de proiect	Babes-Bolyai University, Cluj-Napoca, drd. I.C. Fort (Ladiu)
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
Perioada	<b>2004-2006</b>
Proiect de cercetare	CNCSIS-E, 2/58/2004, Developing research infrastructure of electrochemistry laboratory research to increase the scientific performance in the national and international plan
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	Babes-Bolyai University, Cluj-Napoca, Prof. I.C. Popescu
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
Perioada	<b>2003-2004</b>
Proiect de cercetare	Grant CNCSIS-A, 32/1716/2003 and 114/1716/2004, Supramolecular structure with electrocatalytic activity
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	Babes-Bolyai University, Cluj-Napoca, Prof. I.C. Popescu
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca

Perioada	<b>2001-2002</b>
Proiect de cercetare	Grant CNCSIS 31400/7053/2001 (tema 36/384), Sonoelectrochemistry: influence of ultrasounds in electrochemical processes,
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	Babes-Bolyai University, Cluj-Napoca, CS II Virginia Danciu
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
Perioada	<b>2001-2002</b>
Proiect de cercetare	Grant CNCSIS 31400/7053/2001 (tema 84/1065), Nanostructure TiO <sub>2</sub> electrodes. Applications to the catalytical photodegradation of organic pollutants
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	Babes-Bolyai University, Cluj-Napoca, CS II Virginia Danciu
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca
Perioada	<b>1992-1999</b>
Proiect de cercetare	Bilateral cooperation Program: Blaise-Pascal University, Clermont-Ferrand, France - Babes-Bolyai University, Cluj, Preparation electrochimique d'intermediaires pour la synthese organique. Application a la reduction controlee de molecules polyfonctionnelles
Principalele activitati si responsabilitati	Research team member
Numele coordonatorului de proiect	Babes-Bolyai University, Cluj-Napoca, CS II Virginia Danciu
Beneficiarul proiectului	Universitatea Babes-Bolyai, Cluj-Napoca

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