



## Curriculum Vitae Europass

### Personal information

Surname(s) / First name(s)	DANCIU VIRGINIA
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E-mail(s)	vdanciu@chem.ubbcluj.ro
Nationality(-ies)	Romanian
Date of birth	26.08.1949

### Professional experience

Dates	2000 up now
Occupation or position held	Senior researcher at the Department of Chemical Engineering
Main activities and responsibilities	Research activities and projects coordinator in the field of sol-gel synthesis of doped /undoped oxide semiconductor and carbon aerogels; semiconducting thin layers; heterogeneous catalysis and photocatalysis; preparation of solid electrolytes base on zirconia and silica aerogels
	BABES-BOLYAI University Cluj-Napoca, Faculty of Chemistry and Chemical Engineering, Arany Janos 11, 400028, Cluj-Napoca, Romania
Dates	1999-2007
	Associated Professors at the North University of Baia-Mare
Date	1990 -1999
Occupation or position held	Senior Researcher III at University "Babeş-Bolyai" Cluj-Napoca, ROMANIA, Faculty of Chemistry and Chemical Engineering, Chemical Research Team Associated Professor at the Chemistry Department of the University of Alba Iulia (1991-1992)
Main activities and responsibilities	Research activities and projects coordinator in the field of organic electrosynthesis; metallic coatings
Name and address of employer	BABES-BOLYAI University Cluj-Napoca, Faculty of Chemistry and Chemical Engineering, Arany Janos 11, 400028, Cluj-Napoca, Romania
Date	1981-1990
Occupation or position held	Researcher at the Cluj-Napoca branch of Research Institute of Electrochemical and Biochemical

**Main activities and responsibilities** Energetic – Bucharest – Electrochemistry  
Research activities in the field of organic electrosynthesis

**Name and address of employer** University "Babeş-Bolyai" Cluj-Napoca, ROMANIA  
Faculty of Chemistry and Chemical Engineering  
Arany Janos 11, 400028, Cluj-Napoca, Romania

**Dates** 1972 - 1981

**Occupation or position held** Chemist at the Research Laboratory of "Clujana" Skin and Shoes Factory, Cluj-Napoca,

**Main activities and responsibilities** Research activities in the reuse of the leather waste and realization of molds for heels by nickel electroplating

### Education and training

**Dates** 1998

**Title of qualification awarded** PhD

**Principal subjects/Occupational skills covered** Thesis Title: "Electrosynthesis of aromatic amines with applications in drugs and leather substitute's factories".

**Name and type of organisation providing organisation and training** BABES-BOLYAI University Cluj-Napoca, Faculty of Chemistry  
Arany Janos 11, 400028 Cluj-Napoca, Romania

**Dates** 1967-1972

**Title of qualification awarded** Chemist

**Principal subjects/Occupational skills covered** Physical-Chemistry

**Name and type of organisation providing organisation and training** BABES-BOLYAI University Cluj-Napoca, Faculty of Chemistry and Chemical Engineering,  
Arany Janos 11., 400028 Cluj-Napoca, Romania

**Dates** 1962-1967

**Title of qualification awarded** Graduate from high school

**Name and type of organisation** High School no.3, Sibiu

### Personal skills and competences

**Mother tongue(s)** Romanian

**Other languages**

*European level (\*)*

**English**

**French**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2 - Proficient user	C2 - Proficient user	C2 - Proficient user	C2 - Proficient user	B2 - Independent user
B2 - Independent user	B2 - Independent user	B2 - Independent user	B2 - Independent user	B2 - Independent user

(\*) Common European Framework of Reference (CEF) level

**Social skills and competences** I have worked in various types of teams: basketball team and sports gymnastics in high school; ballet and folk dance in gymnasium.  
I have also experience in the field of learning and researching with the students and PhD students

**Technical skills and competences** Sol-gel synthesis followed by supercritical drying, wastewater/air depollution by photocatalysis; morpho-structural and optical characterization of the aerogels/xerogels

## Coordination/team member of the international and national research projects

National project PN-II-Ideas project no. 306/2011-2015 Designing TiO<sub>2</sub> containing composite nanoarchitectures for H<sub>2</sub> production and environmental depollution, (team member)

International project ERA NET Micro-Nano-Technologies, project no. 7-065/2012-2015 "Smart functions of packages containing nano-structured materials in food preservation (*SMARTPACK*) (project director 2012-2014)

Greece-Romania Bilateral Cooperation, project no. 578 GR/2012-2014 "Efficient wastewater treatment with nanocrystalline transient metal oxides modified with noble metals and nonmetals" (Romanian coordinator)

Hungary-Romania Bilateral Cooperation, project no. 661/2013, "The synthesis of TiO<sub>2</sub>, WO<sub>3</sub>, noble metal (Au, Pt) and carbon nanotube containing composite materials with differently shaped nanocrystals. A "chess game in materials science"(Romanian coordinator)

National project PN II 71-136/2007-2010 "Innovative photocatalytic materials applied to indoor air chemical and microbiological decontamination", (project director )

National project PN II 71-099 "New vitreous tellurate and germanate systems with application in telecommunication, (project responsible)

Bilateral collaboration RO-HU nr 21/2008-2009 "Preparation and Characterization of Visible Light Activated Photocatalysts for Water and Air Decontamination (project director)

COST Action 540/ 2006-2010 "Photocatalytic technologies and novel nanosurfacers materials - critical issue- PHONASUM" (Romanian responsible)

Bulgaria-Romania Bilateral Cooperation Project/2004-2005, "Synthesis, physicochemical and morphological characterization and toxicity testing of titanium dioxide (TiO<sub>2</sub>) and silicon dioxide (SiO<sub>2</sub>) polymeric nanoparticles, with respect to their application as drug carriers", (project director)

National project CEEEX project no. 23/2005-2008,"Nanomaterials and nanostructured films based on TiO<sub>2</sub> with photocatalytic applications on environment organic pollutant degradation" (project responsible)

National project CEEEX project no. 16/2005-2007 "Integrated technologies for the nanostructured biocomposite obtaining with applications in regenerative medicine of the bone tissue" (project responsible)

National project PNCDI-MATNANTECH project no 243 (407)/2004-2006, "Advanced photovoltaic devices based on sensitised nanocrystalline titania films" (project responsible )

National project PNCDI-MATNANTECH project no 243 (407)/2004-2006 "Biomaterials based on aerogels made of natural polymers, TiO<sub>2</sub> and silicates, with targeted applications" (project responsible)

National project CNCSIS project no. 18/405/2005 "Nanostructured composite materials based on carbon and metal oxide aerogels with electrochemical and environmental applications" (project director )

National project PNCDI- MATNANTECH project C 101(204)/ 2002-2004, "Multifunctional advanced materials based on titania and carbon aerogels"( project director)

USA –Romania bilateral collaboration in the frame of COBASE Program / "Initiation of a Joint Program Between Brooklyn College of the City University of New York (prof. Micha Tomkiewicz) and Babeş-Bolyai University of Cluj-Napoca, Romania – in Research and Education in Environmental Studies with an Emphasis on Photocatalytic Degradation of Organic Pollutants Relevant to the Transylvanian Landscape "/2001-2002( Romanian project director )

National Project Orizont 2000/ 1999-2001 "Electrochemical obtaining of the semiconductor films with optical and electrochemical properties" (project director)

France–Romanian bilateral collaboration between Blaise-Pascal University, Clermont-Ferrand, France and Babeş-Bolyai University Cluj-Napoca, "Preparation electrochimique d'intermediaires pour la synthese organique. Application a la reduction controlee de molecules polyfonctionnelles" /1992-1999, project director

National project CNCSIS 31400/7053/2001/ 36 (cod 384) "Sono-electrochemistry: ultrasounds effect on the electrochemical reactions" /2000-2002 , project director

National project ANSTI /Contract 279/1996/ A7/ 1995-2000, „Contribution to obtaining and study of the chemical modified electrodes” , project responsible National project ANSTI/ Contract 279/1996/ A5/1992-1997, „Electrochemical obtaining of the intermediates for dyes and drugs industry”., project responsible

Publications  
(1972-2014)

1. M.Giurgiu, G.Niac, V.Danciu  
"The oxidation of cysteine with potassium permanganate"  
*Proceedings of the 3<sup>th</sup> National Symposium of Theoretical and Applied Physical Chemist*  
Bucarest, p.150-153 (1972)
2. V.Danciu, I.A.Silberg, L.Oniciu,  
"Méthode spectrophotometrique pour la détermination du degré de l'électroréduction de l'acide p-nitrobenzoïque a l'amine correspondante"  
*Rev. de chimie*, Bucarest, 36, 3, 243 (1985)
3. L.Oniciu, I.A.Silberg,V.Danciu, M.Olea, S.Bran,  
"Kinetics and mechanism of p,p'-diaminodibenzyl electrosynthesis"  
*The 36<sup>th</sup> Meeting of the International Society of Electrochemistry*,Salamanca, Spania, p.13020 (sept. 1985)
4. L.Oniciu, M.Olea, V.Danciu,  
"The determination of optimal parameters of the electroreduction of p,p'-dinitrodibenzyl to p,p'-diaminodibenzyl"  
*Rev. de Chimie*, 2, 109, (1987)
5. V. Danciu, A, M. Martre, P. Pouillen, G. Mousset ,  
"Electroreduction de derives dinitres aromatiques. I. Etude analytique du 4,4'-dinitrodibenzyle en milieu aprotique et hydroalcoolique.",  
*Electrochim. Acta* 37, 1993-2000 (1992)
6. V. Danciu, A, M. Martre, P. Pouillen, G. Mousset  
"Electroreduction de derives dinitres aromatiques.II. Influence des tensio-actifs sur les conditions d'adsorption et les parametres electrochimiques de reduction du 4,4'-dinitrodibenzyle en milieu hydroalcoolique"  
*Electrochim. Acta* 37, 2001-2008 (1992)
7. A, M. Martre, V. Danciu, G. Mousset  
"Electroreduction de derives dinitres aromatiques. III. Role du sulfate de titanyle comme mediateur redox"  
*Can. J. Chem.* 71, 1136-1146 (1993)
8. A. M. Martre G. Mousset, V. Cosoveanu, V. Danciu  
"Electroreduction de derives dinitres aromatiques. IV. Caracteristiques electrochimiques et reduction selective de l'acide 4,4'-dinitrostilbene-2,2'-disulfonique"  
*New J. Chem.* 18, 1221-1231 (1994)
9. Virginia Danciu, Veronica Cosoveanu, Maria Jitaru, B.C. Toma, Mariana Toma,  
"Selective electroreduction of some aromatics nitroderivatives to amines",  
*Volume of the Academic Days of Timisoara*, Romania, May 25-27, vol I, pag. 127-131, (1995)
10. Maria Jitaru, B.C. Toma, Mariana Toma, Virginia Danciu, Veronica Cosoveanu  
"Electroreduction of the  $\pi_{C=N}$  bonds of saturated and unsaturated nitrils",  
*Volume of the Academic Days of Timisoara*, Romania, May 25-27, vol I, pag 137-140, (1995)
11. Veronica Cosoveanu, Virginia Danciu, Gabriela Cîmpan, Anne Marie Martre, G.Mousset, S.Gocan  
"Determination of 4,4'-diaminostilben-2,2'-disulfonic acid by thin-layer chromatography and densitometry",  
*Journal Chromatography A*,, 727, 324-329, (1996)
12. Anne Marie Martre, G. Mousset, Veronica Cosoveanu, Virginia Danciu  
"Electroreduction de derives dinitres aromatiques. V. Influences du materiau d'electrode et de systemes redox sur les reductions du 4,4'-dinitrodibenzyle et de l'acide 4,4'-dinitrostilbene-2,2'-disulfonique",  
*Can.J. of Chem.* 74, 1409-1417, (1996)
13. G. Mousset, Anne-Marie Martre, Veronica Co<sup>o</sup>veanu, Virginia Danciu,  
"Selective Reduction of Polyfunctional Molecules by Electrogenerated Titanium (III) Complexes in Non Aqueous Media"  
*Studia Universitatis Babe-Bolyai, Chemia*, 41, 2, 106, (1996)

14. V. Danciu, V. Co<sup>o</sup>veanu, D. Lemnaru, A-M. Martre, G. Mousset  
 "Elaboration et caracterisation structurale et electrochimique d'electrodes de Ti/TiO<sub>2</sub> . Application a la reduction electrochimique de l'acide 4,4'-dinitrostilbene-2,2'- disulfonique, (DNSS)",  
*Studia Universitatis Babe<sup>o</sup>-Bolyai, Chemia*, 41,2, 96, (1996)
15. A-M. Martre, G. Mousset, V. Danciu , V. Co<sup>o</sup>veanu  
 "Indirect reduction of carbonyl and dinitro derivatives by an electrogenerated titanium (III) complex in non aqueous medium",  
*Electrochim. Acta*, 43 (21-22), 3217 (1998)
16. V. Danciu, V. Stavila, A. Gulea  
 "Synthese et etude electrochimique des complexes Mn( BiEDTA)<sub>2</sub> x 9H<sub>2</sub>O et Co(BiEDTA)<sub>2</sub> x 9(H<sub>2</sub>O) "Anales de l'Universite d'Etat de Chisinau ( Moldavie) Vol. II, 1999
17. V. Danciu, V. Co<sup>o</sup>veanu, E. Barabas, I.C. Ladiu  
 "Influence of ultrasounds in electrochemical processes"  
*Studia Universitatis "Babes-Bolyai" Chemia*, 44 1(2), 225-108 (1999), apărut in 2000
18. V. Danciu, V. Cosoveanu, C. Bernard, G. Oprea, E. Barabas, " Voltametria ciclică a 4,4'-dinitrodibenzilului în prezenta ultrasunetelor de înaltă frecvență"  
*Analele Univ. Oradea, fascicula CHIMIE*, VI, 211-216 (1999) ISSN 1224-7626 – apărută 2000
19. Danciu Virginia, Coșoveanu Veronica, Ladiu Ioana Carmen, Grünwald Ernő  
 Natrium es kálium hidroxid tartalmu lugos, cianidmentes horgonyfurdok osszehasonlito vizsgalata. I. Altalanos megfigyelesek ,  
*Korozios Figuelo*, 40, (5), 167-175, (2000) ISSN 0133-2546
20. Grünwald Ernő, Danciu Virginia, Coșoveanu Veronica, Ladiu Ioana Carmen,  
 Natrium es kálium hidroxid tartalmu lugos, cianidmentes horgonyfurdok osszehasonlito vizsgalata. II. Müszaki paraméterek vizsgálata  
*Korozios Figuelo*, 40, (6), 203-206, (2000)
21. V. Danciu, V. Cosoveanu, C.I. Ladiu, E. Grünwald, "Vergleichende Untersuchungen an cyanidfreien Zinkelectrolyten mit Natrium- and Kaliumhydroxid. I. Allgemeine Beobachtungen"  
*Galvanotechnik*, 91(12), 3364 -3373, (2000)
22. Grünwald Ernő, Jumătate Nicolae, Danciu Virginia, Coșoveanu Veronica, Ladiu Ioana Carmen,  
 "Natrium- és kálium-hidroxid tartalmú lúgos, cianidmentes horgonyfurdók összehasonlító vizsgálata. III. Horganybevonatok tulajdonságai  
*Korozios Figuelo*, 41, (1), 11-17, (2001) ISSN 0133-2546
23. E. Grünwald, V. Danciu, V. Coșoveanu, C.I. Ladiu,  
 "Vergleichende Untersuchungen an cyanidfreien Zinkelectrolyte mit Natrium- und Kalium- hydroxid Teil II. Eigenschaften der Electrolyte"  
*Galvanotechnik*, 92(3), 651-657 (2001)
24. E. Grünwald, V. Danciu, V. Cosoveanu, C.I. Ladiu, N. Jumate,  
 "Vergleichende Untersuchungen über cyanidfreie Zinkelectrolyte mit Natrium-bzw. Kaliumhydroxid. III. Eigenschaften abgeschiedener Zinküberzüge"  
*Galvanotechnik* 92(5), 1237-1247 (2001)
25. 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>"  
*Scientific Bulletin (North University Baia-Mare)*, seria B, Chimie-Biologie, XIV, 26-33 (2001)
26. 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-Bolyai" Chemia*, 46, 1(2), 233 - 246(2001)
27. V. Danciu, V. Cosoveanu, G. Oprea, C. Bernard  
 "Ultrasound-assisted cathodic reduction of 4,4' – dinitrodibenzyle"  
*Studia Universitatis "Babes-Bolyai" Chemia*, 46, 1(2), 247-256 (2001)
28. 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), 83-92, (2001)
29. V. Danciu, V. Cosoveanu, Vera Andronic, E. Grünwald,  
“The Regal AZ -type additive influence on zinc electrodeposition from ZnCl<sub>2</sub> electrolyte,  
*Korrosions Figuelo*, 42 (4), 112-116 (2002)
30. 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), 1247-1253 (2002)
31. V. Danciu, V. Cosoveanu, G. Oprea, E. Grünwald,  
“Some additives influence on zinc electrodeposition from weak-acid electrolytes”  
*Galvanotechnik*, 94(3) 566-575 (2003)
32. V. Danciu, V. Cosoveanu,, I. Marian, E. Indrea, V. Almasan, A. Peter,  
“Synthesis and characterisation of TiO<sub>2</sub> aerogels”,  
*Scientific Bulletin (North Univ., Baia-Mare), B, Chemistry-Biology*, XVI, 52-57 (2003)
33. Anca Peter, Virginia Danciu, Veronica Cosoveanu, “Cathodic electrodeposition of titanium dioxide films”,  
*Studia Universitatis Babeş-Bolyai, Chemia*, XLVIII, 1, 143-151 (2003)
34. V. Danciu, V. Cosoveanu, A. Peter, I. Marian, P. Marginean, E. Indrea  
“TiO<sub>2</sub>-aerogels morphology-synthesis correlation”,  
*Annals of West University of Timisoara, Series Chemistry* 12(3) 1029-1036 (2003)
35. Virginia Danciu, L.C. Cotet, Veronica Cosoveanu, P. Marginean  
“Preparation and porous structure determination of resorcinol-formaldehyde and carbon aerogels”  
*Studia Universitatis Babeş-Bolyai, Chemia*, XLVIII, 2, (2003)
36. V. Danciu, V. Cosoveanu, A. Peter, I. Marian, P. Marginean, E. Indrea “TiO<sub>2</sub>-aerogels morphology-synthesis correlation”  
*Annals of West University of Timisoara, Series Chemistry* 13(1) 75-82 (2004)
37. G.Oprea, V.Danciu, C.Mihali, « The study of cerusite-oxyne system »  
*Haykobii Bichnk*, 1(7), 117-121, (2004)
38. G.Oprea, C.Mihali, V.Danciu, M.Podariu, The study of 8-hydroxyquinoline and salicylaldoxime action at the malachite flotation,  
*Journal of Mining and Metalurgy*, 40A (1) 49-63 (2004)
39. A.Barau, M.Crisan, M.Gartner, A.Jitianu, M.Zaharescu, A.Ghita, V.Danciu, V.Cosoveanu, I.O. Marian, „Photothermal and photocatalytic processes on TiO<sub>2</sub> based materials prepared by sol-gel method” *J. Sol-Gel Sci Technol.*, 37(3) 2006,175-178
40. A. Barau, M. Crisan, M. Gartner, V. Danciu, V. Cosoveanu, I. Marian, M. Zaharescu “TiO<sub>2</sub> based films prepared by sol-gel method for advanced water treatment”, *Materials Science Forum*, 492-493, 311-316 (2005)
41. A. Peter, V. Danciu, V. Cosoveanu, Z. Moldovan, E.Indrea, G.Nutiu, L. Baia, I. Rosu  
“TiO<sub>2</sub> Aerogel-Mediated Heterogeneous Photocatalysis for Wastewater Decontamination”  
Conference Volume: *Innovations In The Field Of Water Supply, Sanitation And Water Quality Management*, Bucarest, 16-17 jun., 103-112, 2005
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43. 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 (2006) 512-516
44. E.Indrea, S.Dreve, D.T.Silipas, V.Danciu, V.Cosoveanu, H.-I.Nascu, Nanocrystalline TiO<sub>2</sub> electrodes for dye-sensitized solar cells,  
*Studia Universitatis Babeş-Bolyai, Physica*, 2005 132-136

45. Virginia Danciu, Mihaela Popa, Zsolt Pap, L. Baia, M. Baia, Veronica Cosoveanu, F. Vasiliu, L. Diamandescu, M. Feder, Rodica Alexandrescu, Iron Doped and Undoped TiO<sub>2</sub> Catalysts for Advanced Water Treatment, *Proceeding & Environmental Applications of Advanced Oxidation Processes*, Chania, Creta 2006, Extended abstract P041, 8 pag.
46. L. Baia, M. Baia, A. Peter, V. Cosoveanu, V. Danciu, Evaluating the thermal treatment parameters effect on the anatase nanocrystallite size of titania aerogels, *J. Optoelectron. Adv. Mater.* Vol. 9, Nr. 3, p. 671-674 (2007).
47. L.C. Cotet, M. Baia, L. Baia, I.C. Popescu, V. Cosoveanu, E. Indrea, J. Popp, V. Danciu, Structural properties of some transition metal highly doped carbon aerogels, *Journal of Alloys and Compounds*, 434-435 (2007) 854-857
48. Dumitru A, Moroza A, Stamatin I, Danciu V, Cotet C, Correlation of different carbon support and catalytic activity for Pt based catalyst, *Journal Of Optoelectronics And Advanced Materials*, 10, 4, 904-906 Published: APR 2008, Conference Information: 5th International Conference on New Research Trends in Materials Science Applied, IDS Number: 291PW ISSN: 1454-4164, Sibiu, ROMANIA, SEP, 2007
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50. M. Popa, I.C. Popescu, V. Danciu, Photocatalytic activity of metal doped TiO<sub>2</sub> aerogels prepared by sol-gel process, *Studia Universitatis Babes-Bolyai, CHEMIA*, LII, 3, 131-136 (2007)
51. V. Danciu, L. Baia, V. Cosoveanu, M. Baia, F. Vasiliu, L. Diamandescu, C. M. Teodorescu, M. Feder, Photocatalytic and Structural Properties of Mixed Titania and Zirconia Aerogels, trimis spre publicare, *Optoelectronics And Advanced Materials-Rapid Communications*, 2, 2, 76-80 Published: 2008
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Semiconductor photoelectrodes for solar of splitting water, *Journal of Optoelectronics and Advanced Materials*, vol. 10, No 9, p. 2213-2222, 2008
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42. Zsejke Réka Tóth, Gábor Kovács, Zsolt Pap, Virginia Danciu, Adriana Vulpoi, Klára Magyarai, András Dombi, Klára Hernádi, Lucian Baia  
 „Effect of the gold-nanoparticles shape on the activity of commercial photocatalysts” / „Különböző formájú arany nanorészecskék hatása kereskedelmi fotokatalizátorok aktivitására”  
*XIX. Nemzetközi Vegyészkonferencia*  
 21-24 November 2013, Baia-Mare, Romania
43. Krisztina Vajda, András Dombi, Klára Hernádi, Lucian Baia, Gábor Kovács, Virginia Danciu, Cosmin Coteț, Zsolt Pap  
 „TiO<sub>2</sub> nanocrystals' shaping in the presence of carbon based crystallization promoters” / „TiO<sub>2</sub> nanokristályok alakjának módosítása különböző szénfajták jelenlétében”  
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 21-24 November 2013, Baia-Mare, Romania
44. Gábor Kovács & Lucian Baia, Adriana Vulpoi, Teodora Radu, Éva Karácsonyi, Katarina Norén, András Dombi, Klára Hernádi, Virginia Danciu, Simion Simon, Zsolt Pap  
 "TiO<sub>2</sub>/WO<sub>3</sub>/noble metal nanoarchitectures' photocatalytic activity: "from the degradation intermediates to structural peculiarities"  
*12-a ediție a Seminarului Național de Nanoștiință și Nanotehnologie*  
 16 May 2013 Bucharest, Romania
45. Gábor Kovács, Virginia Danciu, Zsolt Pap, Monica Baia, Veronica. Coșoveanu, Adriana Vulpoi, Teodora Radu, Klára Magyarai, Cristina Gruian, Lucian Baia

"Porous TiO<sub>2</sub>- SiO<sub>2</sub> based materials: structural, morphological and photocatalytic properties"  
*The 14th International Balkan Workshop on Applied Physics and Materials Science*  
2-4 July 2014, Constanța, Romania

- 46.. Gábor Kovács, Virginia. Danciu, Zsolt Pap, Lucian Baia, Veronica Coșoveanu, Adriana Vulpoi, Teodora Radu, Klára Magyar, Cristina Gruian, Monica Baia  
"Assesment of the structural, morphological and photocatalytic properties of TiO<sub>2</sub>-Ag based porous nanoarhitectures"  
*The 14th International Balkan Workshop on Applied Physics and Materials Science*  
2-4 July 2014, Constanța, Romania
- 47.. Hampel Boglárka, Kovács Gábor, Pap Zsolt, Virginia Danciu, Dombi András, Hernádi Klára, Lucian Baia  
Kereskedelmi titán-dioxidok fotokatalitikus aktivitásánakv és hidrogénfejlesztő képességének finomhangolása arany és platina nanorészecskék együttes alkalmazásával  
*20<sup>th</sup> International Conference on Chemistry*  
6-9 November 2014, Cluj-Napoca, Romania
48. Orbán Eszter, Kedves Zsolt, Saszet Kata, Fodor Szilvia, Hampel Boglárka, Székely István, Kovács Gábor, Pap Zsolt, Virginia Danciu, Lucian Baia  
TiO<sub>2</sub>/WO<sub>3</sub> kompozit fotokatalizátorok előállítása a félvezetők felületi töltésének módosításával  
*20<sup>th</sup> International Conference on Chemistry*  
6-9 November 2014, Cluj-Napoca, Romania
49. Székely István1, Kovács Gábor, Pap Zsolt, Virginia Danciu, Adriana Vulpoi, Magyar Klára, Dombi András, Hernádi Klára, Lucian Baia  
Különböző alakú WO<sub>3</sub> félvezetők és WO<sub>3</sub>/TiO<sub>2</sub> kompozitok előállítása, fotokatalikus aktivitásának vizsgálata  
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6-9 November 2014, Cluj-Napoca, Romania
50. Saszet Kata & Kedves Zsolt, Vajda Krisztina, Kása Zsolt, Kovács Gábor, Pap Zsolt, Dombi András, Hernádi Klára, Danciu Virginia, Vulpoi Adriana, Magyar Klára, Baia Lucian  
TiO<sub>2</sub> alapú nanokristályok hidrotermális szintézise és fotokatalikus aktivitásának vizsgálata  
*20<sup>th</sup> International Conference on Chemistry*  
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- 51 Fodor Szilvia, Pap Zsolt, Kovács Gábor, Virginia Danciu, Adriana Vulpoi, Magyar Klára, Dombi András, Hernádi Klára, Lucian Baia  
Pd nanorészecske alakjának hatása a szennyezők fotokatalitikus bontására, illetve a H<sub>2</sub> fejlesztésre  
*20<sup>th</sup> International Conference on Chemistry*  
6-9 November 2014, Cluj-Napoca, Romania
52. Tóth Zsejke Réka, Kovács Gábor, Pap Zsolt, Virginia Danciu, Dombi András, Hernádi Klára, Lucian Baia  
Kereskedelmi TiO<sub>2</sub> és különböző alakú arany nanorészecskék által alkotott kompozitok fotokatalitikus aktivitása modell szennyezők lebontására és a keletkező közttermékek vizsgálata  
*20<sup>th</sup> International Conference on Chemistry*  
6-9 November 2014, Cluj-Napoca, Romania
53. Kása Zsolt, Vajda Krisztina, Pap Zsolt, Dombi András, Hernádi Klára, Kovács Gábor, Lucian Baia, Virginia Danciu  
Shape tailoring of TiO<sub>2</sub> microcrystals using different type of nanocarbons  
*20<sup>th</sup> International Conference on Chemistry*  
6-9 November 2014, Cluj-Napoca, Romania
54. Karácsonyi Éva, Pap Zsolt, Kovács Gábor, Lucian Baia, Virginia Danciu, Dombi András, Hernádi Klára  
Hydrothermal preparation, in-depth characterization and determination of the photocatalytic activity of labyrinth shaped WO<sub>3</sub> microcrystals  
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6-9 November 2014, Cluj-Napoca, Romania
55. Pap Zsolt, Kovács Gábor, Székely István, Kedves Zsolt, Saszet Kata, Hampel Boglárka, Fodor Szilvia, Tóth Zsejke-Réka, Orbán Eszter, Kovács Zoltán, Hernádi Klára, Dombi András, Kása Zsolt, Vajda Krisztina, Karácsony Éva, Virginia Danciu, Adriana Vulpoi, Veronica Coșoveanu, Lucian Baia  
Nano-sized photocatalysts and their composites – shape tailoring and activity  
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1. A. M. Martre, V. Danciu, G. Mousset  
"Electroreduction de derives dinitres aromatiques. Selectivite de la reaction en presence d'ions  $Ti^{3+}$ "  
*Journées d'Electrochimie*, Grenoble, France (June 1993) CA 6.36
2. V. Danciu, M.Jitaru, V.Cosoveanu  
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*Journées d'Electrochimie*, Grenoble, France (June 1993) CA 6.37
3. A. M. Martre, V. Danciu, V.Cosoveanu, G. Mousset  
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"L'etude de la reduction de l'acide 4,4'-dinitrostilbene-2,2'- disulfonique",  
*Journées d'Electrochimie*, Montreal, Canada, p 1246 (1997)
6. V. Danciu, V. Cosoveanu, J. Lessard, J.M. Chapuzet, A M. Martre, G. Mousset  
"Obtention and characterization of the electrodes with electrocatalytical proprieties. Application to reduction of the 4,4'-dinitrostilbene-2,2'-disulfonic acid",  
*48<sup>th</sup> Meeting of International Society of Electrochemistry*, Paris, France, ISE volum, CA2-5, (1997)
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*50<sup>th</sup> ISE Meeting*, 5-10 Sept. 1999, Pavia, Italy, Symposium 5, 813
10. Virginia Danciu, I.C.Popescu, V. Cosoveanu, A. Peter P. Marginean, Z. Moldovan, E. Indrea  
"Preparation of TiO<sub>2</sub> Aerogels and Their Application on Paper Industry Wastewater Pollutants Photodegradation" *7<sup>th</sup> International Conference on Nanostructured Materials*, Wiesbaden, Germany, June 20-24 , 2004
11. Z. Moldovan, N. Palibroda, V. Danciu, and G. Nutiu,  
"Structure determination of novel pollutants detected in river water by Electron Impact Mass Spectrometry" *The 22<sup>th</sup> Informal Meeting on Mass Spectrometry*, Tokaj, Ungaria, 2 –6 May, 2004
12. V. Andronic, V.Danciu, L. C. Cotet, A.Barau, V.Coman, I.C.Popescu,  
"Electroanalytical detection of catechol and phenol at tyrosinase modified carbon aerogel paste electrodes" *International Conference on Electrified Interfaces - ICEI 2004*, Leuven, Belgia , 11-16 July 2004
13. A.Barau, M.Crisan, M.Gartner, V. Danciu, V. Cosoveanu, I. Marian, M. Zaharescu "New TiO<sub>2</sub> based films prepared by sol-gel method for advanced water treatment" *The Eighth International Symposium on Multifunctional and Functionally Graded Materials*, Leuven, Belgia, 11-14 July, 2004
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Probing bioelectroanalytical detection of phenol at a carbon aerogel paste electrode  
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15. Barau, M. Crisan, M. Gartner, A. Jitianu, M. Zaharescu, A. Ghita, V. Danciu, V. Cosoveanu, I.O. Marian  
„Photothermal and photocatalytic processes on TiO<sub>2</sub> based materials prepared by sol-gel method”  
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16. L. C. Cotet, M. Baia, A. Roig, L. Baia, E. Molins, I. C. Popescu, V. Cosoveanu, E. Indrea, J. Popp and V. Danciu  
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17. L. Baia, A. Peter, V. Cosoveanu, E. Indrea and V. Danciu  
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18. L. Baia, Anca Peter, Veronica Cosoveanu, Monica Baia, E. Indrea and Virginia Danciu  
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19. L. Baia, Viorica Trandafir, Anca Peter, Veronica Cosoveanu, Monica Baia, E. Indrea and Virginia Danciu  
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21. V. Danciu, V. Trandafir, L. Baia, V. Cosoveanu, M. Baia, E. Indrea  
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22. V. Danciu, L. Baia, V. Cosoveanu, M. Baia, E. Indrea  
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23. Virginia Danciu, Viorica Trandafir, L. Baia, Veronica Cosoveanu, Anca Peter, M. Baia, E. Indrea  
“Synthesis and Characterization of Novel Titania, Silica, Collagen Aerogels Based Composites for Biomedical Applications” *European Congress on Advanced materials and Processes*, Prague, Sept. 5-8, 2005
24. L. C. Cotet, A. Roig, E. Molins, I.C. Popescu, V. Cosoveanu and V. Danciu  
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25. Virginia Danciu, Mihaela Popa, Zsolt Pap, Lucian Baia, Monica Baia, Veronica Coşoveanu, Florin Vasiliu, Lucian Diamandescu  
“Iron doped and undoped TiO<sub>2</sub> catalysts for advanced water treatment”  
*Environmental Applications of Advanced Oxidation Processes*  
7-9 September 2006, Chania, Greece
26. T. Chervenkov, V. Gerov, V. Danciu, V. Cosoveanu, D. Ivanova, B. Galunska  
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*The 9<sup>th</sup> Workshop on Naoscience and Nanotechnologies*, 28-31 Nov. 2007, Sofia
27. Zsolt Pap, Virginia Danciu, András Dombi, Károly Mogyorósi  
“Activity enhancement of titania based photocatalysts by special heat treatment and nonmetal doping”  
*Tudomány Hete a Dunaújvárosi Főiskolán*,  
9-14 November 2009, Dunaújváros, Hungary



28. Zsolt Pap, Zsuzsanna Cegléd, Virginia Danciu, András Dombi, Károly Mogyorósi  
 "Nitrogénnel módosított titán-dioxid előállítás, gyors kalcinálással"  
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 7-9 October 2009, Sopron, Hungary
29. Zsolt Pap, Virginia Danciu, Zsuzsanna Cegléd, András Dombi, Károly Mogyorósi  
 "Activity enhancement of titania-based photocatalysts by special heat treatment"  
*16<sup>th</sup> Symposium on Analytical and Environmental Problems*  
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30. Zsolt Pap, Ioana Ladiu, Károly Mogyorósi, András Dombi, Emil Indrea, Virginia Danciu  
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31. Zsolt Pap, András Dombi, Károly Mogyorósi, Virginia Danciu, Lucian Baia  
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 12-16. April 2010, Glasgow, Scotland
32. Zsolt Pap, Virginia Danciu, András Dombi, Károly Mogyorósi  
 "The influence of rapid heat treatment on the photocatalytic activity of titania photocatalysts"  
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33. Zsolt Pap, Éva Karácsonyi, Cegléd Zsuzsanna, András Dombi, Danciu Virginia, Ionel-Cătălin Popescu, Baia Lucian, Oszkó Albert, Károly Mogyorósi,  
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 4-8 July 2011, Gdansk, Poland
34. Zsolt Pap, Éva Karácsonyi, Ceglédi Zsuzsanna, András Dombi, Virginia Danciu, Károly Mogyorósi  
 "Gyors kalcinálású titán-dioxid fotokatalizátorok fenolbontó-képessége és felületének vizsgálata"  
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 5-7 October 2011, Sümeg, Hungary
35. Zsolt Pap, Éva Karácsonyi, András Dombi, Virginia Danciu, Károly Mogyorósi, Lucian Pop, Veronica Cosoveanu, Adriana Vulpoi, Lucian Baia, Ákos Kmetykó  
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 20-22 June 2012, Malaga, Spain
36. Karácsonyi Éva, Kmetykó Ákos, Dombi András, Mogyorósi Károly, Baia Lucian, Danciu Virginia, Pap Zsolt  
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 11-12 October 2012, Mátraháza.
37. Zs. Pap, É. Karácsonyi, A. Dombi, V. Danciu, L. C. Pop, A. Vulpoi, L. Baia, K. Mogyorósi  
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*SIWAN5 5th Szeged International Workshop on Advances in Nanoscience*  
 24-27 October 2012, Szeged
38. Éva Karácsonyi, Lucian Baia, András Dombi, Virginia Danciu, Károly Mogyorósi, Lucian Pop, Veronica Coşoveanu, Adriana Vulpoi, Zsolt Pap  
 TiO<sub>2</sub>/WO<sub>3</sub>/noble metal (Au or Pt) nanoarchitectures for photocatalytic hydrogen production "Start building elegantly your nanostructures" Basic study  
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 "The mechanism of charge transfer in titania/tungsten oxide composites in the liquid and gas phase"  
*SP4 - 4th International Conference on Semiconductor Photochemistry*  
 23-27 June 2013, Prague, Czech Republic
40. Gábor Kovács, Éva Karacsonyi, Zsolt Pap, Monica Baia, Katarina Norén, András Dombi, Lucian Pop, Adriana Vulpoi, Teodora Radu, Virginia Danciu, Veronica Cosoveanu, Lucian Baia  
 "Correlation of the TiO<sub>2</sub>/WO<sub>3</sub>/Au composites' structure with phenol photodegradation intermediates"  
*SP4 - 4th International Conference on Semiconductor Photochemistry*  
 23-27 June 2013, Prague, Czech Republic
41. Krisztina Vajda, András Dombi, Klára Hernádi, Lucian Baia, Gábor Kovács, Virginia Danciu, Zsolt Pap  
 "Differently shaped TiO<sub>2</sub> nanocrystals' synthesis in the presence of carbon based crystallization promoters"  
*SP4 - 4th International Conference on Semiconductor Photochemistry*  
 23-27 June 2013, Prague, Czech Republic
42. Gábor Kovács, Éva Karacsonyi, Zsolt Pap, Monica Baia, Katarina Noren, András Dombi, Lucian Pop, Adriana Vulpoi, Virginia Danciu, Lucian Baia  
 "Structural properties of TiO<sub>2</sub>/WO<sub>3</sub>/noble metal based systems"  
*E-MRS 2013 - European Materials Research Society Spring Meeting*  
 27-31 May 2013, Strasbourg, France
43. Krisztina Vajda, András Dombi, Klára Hernádi, Lucian Baia, Gábor Kovács, Virginia Danciu, Zsolt Pap  
 "Differently shaped TiO<sub>2</sub> nanocrystals' synthesis in the presence of MWCNT (from nanopellets to nanoplates)"  
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- 44.. Éva Karacsonyi, András Dombi, Gábor Kovács, Lucian Baia, Virginia Danciu, Zsolt Pap  
 "Charge carrier dynamics (in the liquid and gas phase) "at first sight" in titania/tungsten oxide/noble metal composite photocatalysts"  
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45. Krisztina Vajda, Zsolt Kása, András Dombi, Klára Hernádi, Zoltán Németh, Lucian Baia, Teodora Radu, Gábor Kovács, Virginia Danciu, Zsolt Pap  
 "Shaping of titania nanocrystals with carbon materials for photocatalytic applications"  
*28<sup>th</sup> International Winterschool on Electronic Properties of Novel Materials*  
 8-15 March 2014, Kirchberg, Austria
46. Éva Karacsonyi, Zsolt Pap, Gábor Kovács, Lucian Baia, Virginia Danciu, András Dombi, Klára Hernádi  
 "Hydrothermal preparation of labyrinth shaped WO<sub>3</sub> microcrystals"  
*E-MRS 2014 - European Materials Research Society Spring Meeting*  
 26-30 May 2014, Lille, France
47. Szilvia Fodor, Zsejke Réka Tóth, Zsolt Pap, Lucian Baia, Virginia Danciu, Adriana Vulpoi, Klára Magyarai, András Dombi, Klára Hernádi, Gábor Kovács  
 "The influence of Pt/Au nanoparticles' shape on activity of commercial TiO<sub>2</sub> photocatalysts"  
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 26-30 May 2014, Lille, France
48. Kata Saszet, István Székely, Zsolt Kedves, Zsolt Pap, Gábor Kovács, Klára Magyarai, Teodora Radu, Adriana Vulpoi, Virginia Danciu, András Dombi, Klára Hernádi, Lucian Baia  
 "Shaping of TiO<sub>2</sub> and WO<sub>3</sub> nanocrystals for achieving high photocatalytic activity"  
*E-MRS 2014 - European Materials Research Society Spring Meeting*  
 26-30 May 2014, Lille, France
49. Zsolt Pap, Krisztina Vajda, Éva Karacsonyi, István Székely, Kata Saszet, Zsolt Kedves, András Dombi, Klára Hernádi, Gábor Kovács, Virginia Danciu, Lucian Baia  
 "New Structural Entities For Photocatalysis: "Crystallographic Holes" And Crystal Shapes"  
*8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications – SPEA8*  
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50. Gábor Kovács, Zsejke Réka Tóth, Szilvia Fodor, Zsolt Pap, Virginia Danciu, András Dombi, Klára Hernádi, Lucian Baia  
“Differently shaped Pt/Au nanoparticles: activity enhancement of commercial TiO<sub>2</sub> photocatalysts”  
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51. Gábor Kovács, Zsolt Pap, Cosmin Coteț, Veronica Coșoveanu, Lucian Baia, Virginia Danciu  
“Photocatalytic, morphological and structural properties of the TiO<sub>2</sub>-Ag porous structures' based system”  
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52. Gábor Kovács, Virginia Danciu, Zsolt Pap, Monica Baia, Veronica Coșoveanu, Adriana Vulpoi, Teodora Radu, Klára Magyari, Cristina Gruian, Lucian Baia  
“Porous TiO<sub>2</sub>- SiO<sub>2</sub> based materials: structural, morphological and photocatalytic properties”  
*24th International Conference on Raman Spectroscopy*  
10-15 August, 2014, Jena, Germany
53. Gábor Kovács, Virginia Danciu, Zsolt Pap, Lucian Baia, Veronica Coșoveanu, Adriana Vulpoi, Teodora Radu, Klára Magyari, Cristina Gruian, Monica Baia  
“Assesment of the structural, morphological and photocatalytic properties of TiO<sub>2</sub>-Ag based porous nanoarhitectures”  
*24th International Conference on Raman Spectroscopy*  
10-15 August, 2014, Jena, Germany