



Curriculum vitae Europass

Personal information

First name(s) / Surname(s) **KELLENBERGER, ANDREA ROZALIA**

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Nationality Romanian

Date of birth 30 July 1975

Gender Female

Work experience

Dates	10 / 2008 – present
Occupation or position held	Associate professor
Main activities and responsibilities	Teaching activities in Electrochemistry, Electrochemical processes and General Chemistry (lecture) Project manager “ <i>Microporous polyaniline sensor functionalized with pendant groups, innovative material for use in identification and control of Parkinson’s disease</i> ”. Funding ca. 24000 Euro / 3 year (2008 -2011) “ <i>New fabrication concept of silver nanowire/polyaniline transparent, conductive and flexible electrodes for solar cells</i> ” Requested funding ca. 280000 Euro / 3 years (2013 -2015)
Name and address of employer	UPT, Faculty of Industrial Chemistry and Environmental Engineering, Pta. Victoriei nr. 2, 300006-Timisoara
Type of business or sector	Education, R&D
Dates	10 / 2005 – 10 / 2008
Occupation or position held	Assistant Professor
Main activities and responsibilities	Teaching activities in Electrochemistry, Electrochemical processes and Chemistry Project manager of a project intended to develop the infrastructure and equip the laboratory of <i>General Chemistry</i> . Funding ca. 37000 Euro
Name and address of employer	UPT, Faculty of Industrial Chemistry and Environmental Engineering, Pta. Victoriei nr. 2, 300006-Timisoara
Type of business or sector	Education, R&D
Dates	10 / 2002 – 10 / 2005
Occupation or position held	Assistant
Main activities and responsibilities	Teaching activities in Electrochemistry, Physical Chemistry Project manager „ <i>Electrochemical sensors based on modified skeleton-nickel-polyaniline electrodes</i> ”. Funding ca. 12000 Euro / 1 year (2004)
Name and address of employer	UPT, Faculty of Industrial Chemistry and Environmental Engineering, Pta. Victoriei nr. 2, 300006-Timisoara
Type of business or sector	Education, R&D

Education and training

Dates 10 / 1998 – 10 / 2004
Title of qualification awarded **Doctor**
Principal subjects / occupational skills PhD student
Name and type of organisation providing education and training UPT, Faculty of Industrial Chemistry and Environmental Engineering, Higher education

Dates 10 / 1993 – 10 / 1998
Title of qualification awarded **Engineer**
Principal subjects / occupational skills Organic chemistry technology
Name and type of organisation providing education and training UPT, Faculty of Industrial Chemistry and Environmental Engineering, Higher education

Dates 09 / 1989 – 09 / 1993
Title of qualification awarded **Baccalaureate**
Principal subjects / occupational skills Subjects in high school curriculum, mathematics - physics and chemistry - biology
Name and type of organisation providing education and training High School "Vasile Lucaciu" Baia Mare, Maramures

Personal skills and competences

Mother tongue(s) **Hungarian, Romanian**

Other language(s)

Self-assessment
European level ()*

English

German

French

Understanding				Speaking				Writing	
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
C1	Proficient user	C1	Proficient user	B2	Independent user	B2	Independent user	C2	Proficient user
B2	Independent user	B2	Independent user	B2	Independent user	B1	Independent user	B1	Independent user
A2	Basic User	B1	Independent user	A2	Basic User	A2	Basic User	A2	Basic User

(*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences Interdisciplinary collaboration abilities, gained from research projects and postdoctoral research internships;
Adaptable to different socio-cultural media, obtained through collaboration with foreign institutions;
Communication skills gained through experience as a teacher.

Organisational skills and competences Experience in project management gained from research projects where I was project director or member of research team.

Technical skills and competences Areas of expertise: applied electrochemistry, conducting polymers, electrochemical methods of research and analysis, spectroelectrochemistry, electrocatalysis.

Computer skills and competences

- Microsoft Windows;
- Microsoft Office (Word, Excel, Powerpoint);
- Adobe Acrobat
- OriginLab – data analysis and graphing software;
- Instrumental data acquisition software (GPES, FRA, Zview, PowerSUITE);
- WEB browsers.

Other skills and competences Member of the Romanian Society of Chemistry
Member of International Society of Electrochemistry

Additional information

2 monographs and 2 books for students published in Publishing Politehnica Timisoara;
49 scientific papers published in journals, of which 29 in ISI indexed journals
48 papers presented at international and national conferences of which 23 are published in proceedings;
313 citations in Scopus, *h*-index 11
Principal investigator of 3 research grants PCE-IDEI, PNCDI2 and CNCSIS – TD, member of the research team to 1 international research contract and 10 national research contracts, long term expert in 3 POSDRU projects.

Scholarships, research stages:

1997 - 1998 (eight months): University of Applied Sciences Gelsenkirchen, Germany - diploma work;
1999 - 2000 (7 months): University of Applied Sciences Gelsenkirchen, Germany - Socrates stage;
2001 - 2002 (10 months): University of Applied Sciences Gelsenkirchen, Germany - DAAD stage;
2005 (3 months), 2006 (3 months), 2007 (6 months), 2009 (1 month), 2011 (2 month): Leibnitz Institute for Solid State and Materials Research Dresden, Germany - postdoctoral research stages;

marital status: married

List of scientific papers (extract)

1. Two step polyol-solvothermal growth of thick silver nanowires, R. Banica, D. Ursu, T. Nyari, **A. Kellenberger**, *Materials Letters*, 194, **2017**, 181-184
2. Adsorption of an Azo dye on polyaniline/niobium substrate, M. Tara-Lunga-Mihali, N. Plesu, **A. Kellenberger**, G. Ilia, *International Journal of Electrochemical Science* 10, **2015**, 7643-7659
3. Scan rate dependent morphology of polyaniline films electrochemically deposited on nickel, **A. Kellenberger**, D. Ambros, N. Plesu, *International Journal of Electrochemical Science* 9, **2014**, 6821-6833
4. Corrosion resistance of carbon steel in weak acid solutions in the presence of L-histidine as corrosion inhibitor, M. Bobina, **A. Kellenberger**, J.-P. Millet, C. Muntean, N. Vaszilcsin, *Corrosion Science* 69, **2013**, pp. 389-395
5. Impedimetric detection of dopamine on poly(3-aminophenyl boronic acid) modified skeleton nickel electrodes, N. Plesu, **A. Kellenberger**, I. Taranu, B.O. Taranu, I. Popa, *Reactive & Functional Polymers*, 73, **2013**, 772-778
6. Synthesis of polyaniline nanostructures by electrochemical deposition on niobium, **A. Kellenberger**, N. Plesu, M. Tara-Lunga-Mihali, N. Vaszilcsin, *Polymer*, 54, **2013**, 3166-3174
7. Enhancement of hydrogen evolution reaction on platinum cathode by proton carriers, R. Cretu, **A. Kellenberger**, N. Vaszilcsin, *International Journal of Hydrogen Energy*, 38, **2013**, pp. 11685-11694
8. Aromatic amines as proton carriers for catalytic enhancement of hydrogen evolution reaction on copper in acid solutions, C. C. Văduva, N. Vaszilcsin, **A. Kellenberger**, *International Journal of Hydrogen Energy* 37(17), **2012**, pp.12089-12096
9. Structure dependence of charged states in "linear" polyaniline as studied by in situ ATR-FTIR spectroelectrochemistry, **A. Kellenberger**, E. Dmitrieva, L. Dunsch *Journal of Physical Chemistry B*, 116 (14), **2012**, pp. 4377-4385
10. The stabilization of charged states at phenazine-like units in polyaniline under p-doping. An *in situ* ATR-FTIR spectroelectrochemical study, A. Kellenberger, E. Dmitrieva, L. Dunsch *Physical Chemistry Chemical Physics* 13 (8), **2011**, pp. 3411-3420
11. Effect of temperature on the electrochemical synthesis and properties of polyaniline films, N. Plesu, **A. Kellenberger**, M. Mihali, N. Vaszilcsin, *Journal of Non-Crystalline Solids* 356, **2010**, pp. 1081-1088
12. In situ ESR-UV-Vis-NIR spectroelectrochemical study of the p-doping of poly[2-(3-thienyl)ethyl acetate] and its hydrolyzed derivatives, Cházaro-Ruiz, **A. Kellenberger**, E. Jähne, H.-J. Adler, T. Khandelwal, L. Dunsch, *Physical Chemistry Chemical Physics* 11 (30), **2009**, pp. 6505-6513
13. In situ ESR/UV-vis-NIR and ATR-FTIR spectro-electrochemical studies on the p-doping of copolymers of 3-methylthiophene and 3-hexylthiophene, L.F. Cházaro-Ruiz, **A. Kellenberger**, L. Dunsch, *Journal of Physical Chemistry B*, 113 (8), **2009**, pp. 2310-2316.
14. In situ FTIR spectroelectrochemistry of poly[2-(3-thienyl)ethyl acetate] and its hydrolyzed derivatives **A. Kellenberger**, E. Jähne, H.-J. Adler, T. Khandelwal, L. Dunsch, *Electrochimica Acta* 53, **2008**, 7054-7060
15. Kinetics of hydrogen evolution reaction on skeleton nickel and nickel-titanium electrodes obtained by thermal arc spraying technique, **A. Kellenberger**, N. Vaszilcsin, W. Brandl, N. Duteanu *International Journal of Hydrogen Energy* 32, **2007**, pp. 3258-3265