

CURRICULUM VITAE



Surname: Bîrzu

First Name: Adrian

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Working place:

- permanent: “Al.I.Cuza” University, Faculty of Chemistry, 11 Blvd. Carol, Iași – 700506, Romania.

Education

a. Al.I.Cuza University, Faculty of Chemistry. I defended on September 6, 2000, the Ph. D. thesis with the title “Nonlinearity and self-organization in far from equilibrium chemical systems”, and received the degree ‘very good’. I received the appointment of the Ph. D. degree in Chemistry in March 2001.

b. Al.I.Cuza University, Faculty of Chemistry, section Physics-Chemistry. I graduated in 1996, getting the B. Sc. with the average mark 9.85 and 10 (from 10) for the graduation exam.

c. Al.I.Cuza University, Faculty of Physics, specialization Plasma Physics. I graduated in 1992, getting the B. Sc. with the average mark 9.92 and 10 (from 10) for the graduation exam.

Professional positions held

- 2008-2012, *chancellor (scientific secretary, ranked as vice-dean)*, Faculty of Chemistry, Al. I. Cuza University of Iași;

- 2004 - present, associate professor;

- 1998 – 2004, lecturer;

- 1996 – 1998, assistant professor;

- 1993 – 1996, research assistant.

Professional honors, awards and fellowships

- September 2015, invited researcher, University of Debrecen (prof. V. Gaspar);

- May-August 2015, *Humboldt Research Fellowship*, T. U. München (prof. K. Krischer);

- April-May 2015, and October 2016, invited researcher, China University of Mining and Technology, Xuzhou (prof. Q. Gao);

- September 2014, invited researcher, China University of Mining and Technology, Xuzhou (prof. Q. Gao);

- September 2013, invited researcher, University of Debrecen (prof. V. Gáspár);

- July 2013, visiting scientist, Saint Louis University (prof. I. Z. Kiss);

- February – August 2012 – *Senior Fulbright Fellowship*, Saint Louis University (prof. I. Z. Kiss);

- July – September 2011 – *Humboldt Research Fellowship*, T.U. Munich (prof. K. Krischer);

- October – December 2008 – *Humboldt Research Fellowship*, T.U. Munich (prof. K. Krischer);

- 2006-2007, bilateral grant, University of Debrecen (prof. V. Gáspár);

- May – July 2005 – *Humboldt Research Fellowship*, T.U. Munich (prof. K. Krischer);
- 2004 – *Reintegration fellowship* from Humboldt Foundation;
- January 2002 – March 2003 – *Humboldt Research Fellowship*, 12 months, at Fritz Haber Institute of the Max Planck Society (Berlin) and Faculty of Physics, T.U. Munich, both in the group of prof. Katharina Krischer. In Fritz Haber Institute, I worked in the department led by the ***Nobel Prize winner for Chemistry in 2007, professor Gerhard Ertl.***
- October – December 2002 – employee of the Faculty of Physics, T.U. Munich, in the group of prof. Katharina Krischer;
- 1998 – 2001 – *Roman Herzog Fellowship* from Alexander von Humboldt Foundation, 10 months and a fellowship from the Romanian government, 6 months, both at IAPC, University of Bremen, in the group of prof. Nils I Jaeger. The research topic was “Spatio-temporal patterns in electrochemical systems”;

Research Activity

My main research field is nonlinear electrochemical systems and dynamics of complex systems. My main capabilities are in the field of mathematical and numerical modeling of nonlinear and complex systems.

- research grants: 3 international, 7 national, from which two as director (“Modeling of globally coupled arrays of oscillators with applications in neurocomputation”, 2006 and “Theoretical study of some complex electrochemical systems with nonlinear behavior”, 2009).
- papers: 15 in mainstream international journals, 12 in Romanian ISI indexed journals, 8 in national or international journals without ISI index;
- 7 books or book chapters, from which one as editor;
- citations: 141 in mainstream journals (108 without self-citations), 14 in international monographs, 21 in Ph. D. theses published abroad, Hirsch index 7 (without self-citations);
- presentations at national (20) or international conferences and seminars (32);

Long term cooperations

- Prof. Nils I. Jaeger, IAPC, University of Bremen (1998-2001).
- Prof. Katharina Krischer, Faculty of Physics, Technical University München (since 2000)
- Prof. Vilmos Gáspár, Department of Physical Chemistry, University of Debrecen (since 2006).
- Prof. Istvan Z. Kiss, Department of Chemistry, Saint Louis University (since 2011).
- Prof. Qingyu Gao, China University of Mining and Technology, Xuzhou, Jiangsu (since 2014).

Other professional activities (workshops, seminars, consultations)

- Since 2007, referee for *Electrochimica Acta*, *Journal of Physical Chemistry*, *Journal of Electroanalytical Chemistry*, *Journal of Chemical Physics*, *Journal of Chemistry*, *Computational and Mathematical Methods in Medicine*, *Revue Roumaine de Chimie*, *Journal of Solid State Electrochemistry*.
- Since 2004, expert referee for the National Agency of Scientific Research (ANCS) and National University Research Council (CNCSIS), for Physical Chemistry.
- 2005-2014, member of the evaluation panel for the National Chemistry Olympiad (high school students).
- 2008-2014, I participate in training the Romanian team for the International Chemistry Olympiad (for high school students).
- In 2000, I was co-organizer of the National Conference of Physical Chemistry.

Membership and activities in professional associations

- Member of the Romanian Society of Chemistry, since 2005.
- Expert for the Romanian Register of the Experts, since 2005.
- Evaluating expert for the Romanian – US Fulbright commission (2011 – an application, 2012 – an application, 2013 – an application, 2014 – two applications).

Known foreign languages: English (good), French (average), German (basic).

Courses taught and other services provided to students and the home institution

a. I give lectures and seminars of “Chemical kinetics” (2nd year of study, undergraduate), “Statistical Thermodynamics” (3rd year of study, undergraduate), and “Enzyme kinetics” (graduate).

b. I provide supervision to undergraduate and graduate students who work for their graduation thesis.

c. As chancellor of the Faculty of Chemistry (2008-2012), I organized the scientific events (e.g., conferences, symposia) in the faculty and represented the faculty in the Research Council of the University Senate.

October 23rd 2016

Adrian Bîrzu