

# **Summary of professional accomplishments**

**Dr Ewa Poboży**

Documentation for the habilitation procedure

The Sciences

**List of published scientific papers or professional creative works and information of teaching achievements, scientific collaborations and popularization of science**

**Faculty of Chemistry, University of Warsaw**

**Warsaw 2014**

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## 1. Personal data

Name (First, last): **Ewa Poboży** (maiden name Bajorek)

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Place of work: Faculty of Chemistry, University of Warsaw,  
02-093 Warsaw, Pasteura 1

Phone: 22 8220211 ext. 399

## 2. Diplomas and scientific degrees

- |      |   |
|------|---|
| 1997 | <b>University of Warsaw, Faculty of Chemistry, Laboratory for Flow Analysis and Chromatography</b><br>- doctoral degree in Chemistry, dissertation title: „ <i>Application of high performance liquid chromatography and capillary electrophoresis for metals speciation</i> ”<br>supervised by Prof. dr hab. Marek Trojanowicz |
| 1982 | <b>University of Warsaw, Faculty of Chemistry, Laboratory of Basic Aspects of Analytical Chemistry</b><br>- master's degree in chemistry, thesis title: „ <i>Effect of detergents on ion-selective electrodes with plastic membranes</i> ”<br>supervised by Prof. dr hab. Adam Hulanicki  |

## 3. History of employment:

- |           |  |
|-----------|--|
| od 2007   | <b>University of Warsaw, Faculty of Chemistry, Laboratory for Flow Analysis and Chromatography</b><br>- senior Lecturer                            |
| 1998-2007 | <b>University of Warsaw, Faculty of Chemistry, Laboratory for Flow Analysis and Chromatography</b><br>- senior assistant                           |
| 1989-1998 | <b>Uniwersytet Warszawski, Wydział Chemii, Pracownia Analizy Przepływowej i Chromatografii</b><br>- technical position, since 1.07.1997 specialist |
| 1987-1989 | <b>University of Warsaw, Faculty of Chemistry, Laboratory of Basic Aspects of Analytical Chemistry</b><br>- technical position                     |

**4. List of publications comprising the scientific achievement referred to in Art. 16(2) of the Act of 14 March 2003 on scientific degrees and titles and the degrees and titles in arts (Journal of Laws no. 65, item 595, as amended) selected as the basis for the habilitation proceedings**

**4.A ■ Title of scientific achievement:**

**„Off-line and on-line sample processing methods in bioanalytical application using capillary electrophoresis”**

**4.B ■ Publications comprising the scientific achievement::**

	Author(s), date of issue, title, journal or publishing house, volume, pages.	IF	Number of citations Web of Science/Scopus
<b>H1</b>	<p><b>Pobozy, E.</b>, Radomska, A., Koncki, R., Głab, S., <i>Determination of dialysate creatinine by micellar electrokinetic chromatography,</i> Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 789 (2) (2003) 417-424.</p> <p>I planned and directly supervised the experimental works using capillary electrophoresis. I developed separation conditions and applied the method for post-dialysate solutions. I interpreted the results and prepared materials for the manuscript. My estimated percentage contribution is 50%.</p>	IF <sub>(2003)</sub> = 2.085	8/10
<b>H2</b>	<p><b>Pobozy, E.</b>, Michalski, A, Sotowska-Brochocka, J., Trojanowicz M. <i>Determination of melatonin and its precursors and metabolites using capillary electrophoresis with UV and fluorimetric detection,</i> Journal of Separation Science 28 (16) (2005) 2165-2172.</p> <p>I planned, conducted and supervised the experimental works using capillary electrophoresis. I developed conditions for the separation of indole compounds. I interpreted the results and prepared the materials for publication. I am a corresponding author. My estimated percentage contribution is 55%.</p>	IF <sub>(2005)</sub> = 1.829	11/11
<b>H3</b>	<p>Musijowski, J., <b>Pobozy, E.</b>, Trojanowicz, M., <i>On-line preconcentration techniques in determination of melatonin and its precursors/metabolites using micellar electrokinetic chromatography,</i> Journal of Chromatography A 1104 (1-2) (2006) 337-345.</p> <p>I planned, conducted and supervised the measurements. I developed conditions for preconcentration. I interpreted the results and participated in preparation of manuscript for publication. I am a corresponding author. My estimated percentage contribution is 65%.</p>	IF <sub>(2006)</sub> = 3.554	24/26

<b>H4</b>	<p><b>Pobozy, E.,</b> Czarkowska, W., Trojanowicz, M.,  <i>Determination of amino acids in saliva using capillary electrophoresis with fluorimetric detection,</i>  Journal of Biochemical and Biophysical Methods, 67(1) (2006) 37-47.</p> <p>I planned, conducted and supervised the experimental works using capillary electrophoresis. I optimizes conditions for derivatization and separation of amino acids. I interpreted the results and wrote the manuscript. I am a corresponding author. My estimated percentage contribution is 80%.</p>	IF <sub>(2006)</sub> = 1.403	32/29
<b>H5</b>	<p>Szymański, J., <b>Pobozy, E.,</b> Trojanowicz, M., Wilk, A., Garstecki, P., Hołyst, R.,  <i>Net charge and electrophoretic mobility of lysozyme charge ladders in solutions of nonionic surfactant,</i>  Journal of Physical Chemistry B 111 (19) (2007) 5503-5510.</p> <p>I planned, and supervised the measurements with capillary electrophoresis. I developed method for “lysozyme charge leader” separation. I participated in preparation of the manuscript. My estimated percentage contribution is 50%.</p>	IF <sub>(2007)</sub> = 4.086	7/8
<b>H6</b>	<p>Rzygalinski, I., <b>Pobozy, E.,</b> Drewnowska, R., Trojanowicz, M.,  <i>Enzymatic in-capillary derivatization for glucose determination by electrophoresis with spectrophotometric detection,</i>  Electrophoresis 29 (8) (2008) 1741-1748.</p> <p>I planned and directly supervised the measurements using capillary electrophoresis. I developed conditions for the enzymatic reactions, interpreted the results and prepared materials for the manuscript. I am a corresponding author. My estimated percentage contribution is 60%.</p>	IF <sub>(2008)</sub> = 3.509	5/8
<b>H7</b>	<p>Trojanowicz, M., Latoszek, A., <b>Pobozy, E.,</b>  <i>Analysis of genetically modified food using high-performance separation methods,</i>  Analytical Letters 43 (10-11) (2010) 1653-1679.</p> <p>I prepared the part materials for publication. My estimated percentage contribution is 40%.</p>	IF <sub>(2010)</sub> = 1.317	4/5
<b>H8</b>	<p>Latoszek, A., García-Ruiz, C., Marina, M.L., De La Mata, F.J., Gómez, R., Rasines, B., Cifuentes, A., <b>Pobozy, E.,</b> Trojanowicz, M.,  <i>Modification of resolution in capillary electrophoresis for protein profiling in identification of genetic modification in foods,</i>  Croatica Chemica Acta 84 (3) (2011) 375-382.</p> <p>I directly supervised the proteins separation using capillary electrophoresis with dendrimers. My estimated percentage contribution is 15%.</p>	IF <sub>(2011)</sub> = 0.763	2/3

<b>H9</b>	<p><b>Pobozy, E.</b>, Filaber, M., Koc, A., Garcia-Reyes, J.F.,  <i>Application of Capillary Electrophoretic Chips in Protein Profiling of Plant Extracts for Identification of Genetic Modifications of Maize</i>  <i>Electrophoresis</i> 34 (2013) 2740-2753.</p> <p>I planned and supervised the experimental works. I optimized methods for maize protein extraction and the separation. I interpreted the results and wrote the manuscript. I am a corresponding author. My estimated percentage contribution is 75%.</p>	<p>IF (2012) = 3.261</p>	<p>0/1</p>
<b>H10</b>	<p><b>Pobozy, E.</b>, Sentkowska, A., Piskór, A.,  <i>Comparison of three modifications of fused silica capillary and untreated capillary for protein profiling of maize extracts by capillary electrophoresis</i>  <i>Journal of Separation Science</i>, 37 (2014) 2388-2394.</p> <p>I planned, conducted and supervised the experimental works. I developed the methods of capillary modification. I interpreted the results and wrote the manuscript. I am a corresponding author. My estimated percentage contribution is 80%.</p>	<p>IF(2012) = 2.591</p>	<p>0/0</p>
<b>overall values for selected papers H1 - H10:</b>			<p><b>IF = 24.398    93/101</b></p>

#### 4.C ■ Summary of the scientific goals and major results of presented publications

##### Annex

## 5. List of other (not included in the achievement mentioned in sect. 5) published research studies and scientific achievement indices

### 5.A ■ Scientific publications in journals included in the Journal Citation Reports (JRC) database

#### ■ List of scientific papers published before the doctorate:

- 1** Hulanicki, A., Trojanowicz, M., **Pobozy, E.**, *Effect of surfactants on the response of ion-selective electrodes with poly(vinyl chloride) membranes*, *The Analyst*, 107 (1982) 1356-1362.

**IF<sub>(1982)</sub> = 1.398      IF<sub>(2012)</sub> = 3.690**

In this study, I conducted all measurements, participated in the interpretation of results. I prepared the graphs and figures for the manuscript. My estimated percentage contribution is 50%.
- 2** Trojanowicz, M., **Pobozy, E.**, Meyerhoff, M.E., *Direct and replacement ion chromatography with potentiometric detection using a silver/silver bromide electrode*, *Analytica Chimica Acta*, 222(1) (1989) 109-119.

**IF<sub>(1989)</sub> = unknown      IF<sub>(2012)</sub> = 4.387**

In this study, I conducted all measurements, participated in the interpretation of results. I prepared the graphs and figures for the manuscript. My estimated percentage contribution is 60%.
- 3** Trojanowicz, M., **Pobozy, E.**, Szpunar, J., *Flow-injection analysis with light emitting diode photometric detection*, *Chem. Anal. (Warsaw)*, 35 (1990) 661-667.

**IF<sub>(1990)</sub> = 0.564**

In this study, I formulated the research problem, planned and performed part FIA measurements. My estimated percentage contribution is 30%.
- 4** Trojanowicz, M., **Pobozy, E.**, Worsfold, P.J., *Speciation of chromium by ion pair chromatography with post column spectrophotometric detection*, *Anal. Lett.*, 25 (1992) 1373-1387.

**IF<sub>(1992)</sub> = 1.000      IF<sub>(2012)</sub> = 0.965**

In this study, I formulated the study problem. I planned and conducted all measurements, participated in the interpretation of results and preparation of the first draft of the manuscript. I prepared the graphs and figures. My estimated percentage contribution is 70%.
- 5** **Pobozy, E.**, Sweryda-Krawiec, B., Trojanowicz, M., *Ion interaction chromatography with nonylamine reagent for the determination of nitrite and nitrate in natural waters*, *Journal of Chromatography*, 633 (1993) 305-310.

**IF<sub>(1993)</sub> = 2,523      IF<sub>(2012)</sub> = 4,612**

In this study, I formulated the research problem, planned and performed part HPLC measurements. I participated in the interpretation of results and preparation of the first draft of the manuscript and edited answers to the reviewers. My estimated percentage contribution is 70%.

- 6** Gennaro, M.C., Abrigo, C., **Pobozy, E.**, Marengo, E., *Retention dependence on organic modifier and interaction reagent concentration in reversed-phase ion-interaction HPLC*, Journal of Liquid Chromatography 18 (2) (1995) 311-330.  
**IF<sub>(1995)</sub> = 1.058**      **IF<sub>(2012)</sub> = 0.565**  
 In this study, I conducted some measurements, participated in the interpretation of results and preparation of the first draft of the manuscript. My estimated percentage contribution is 30%.
- 7** **Pobozy, E.**, Pyrzynska, K., Szostek, B., Trojanowicz, M., *Flow-Injection Spectrophotometric Determination of Free Residual Chlorine in Waters with 3,3'-Dimethylnaphthidine*, Microchemical Journal 51 (3) (1995) 379-386.  
**IF<sub>(1995)</sub> = 0.700**      **IF<sub>(2012)</sub> = 2.879**  
 In this study, I conducted FI measurements, participated in the interpretation of results and preparation of the manuscript. My estimated percentage contribution is 50%.
- 8** **Pobozy, E.**, Glod, B., Kaniewska, J., Trojanowicz, M., *Determination of triorganotin compounds by ion chromatography and capillary electrophoresis with preconcentration using solid-phase extraction*, Journal of Chromatography A 718 (2) (1995) 329-338.  
**IF<sub>(1995)</sub> = 2.296**      **IF<sub>(2012)</sub> = 4.612**  
 In this study, I planned and performed measurements using ion chromatography. I participated in the interpretation of results and preparation of the manuscript. My estimated percentage contribution is 50%.
- 9** **Pobozy, E.**, Wojasińska, E., Trojanowicz, M., *Ion chromatographic speciation of chromium with diphenylcarbazide-based spectrophotometric detection*, Journal of Chromatography A 736 (1-2) (1996) 141-150.  
**IF<sub>(1996)</sub> = 2.457**      **IF<sub>(2012)</sub> = 4.612**  
 In this study, I planned the experiments, developed the measurement procedure, supervised the measurements, participated in discussions on the obtained results and preparation of the manuscript. My estimated percentage contribution is 70%.
- 10** Trojanowicz, M., Pyrzynska, K., **Pobozy, E.**, Maruszak, W., *Chemical speciation - a challenge for analytical chemistry*, Anais. Assoc. Bros. Quim, 45 (4) (1996) 158-166.  
**IF<sub>(1996)</sub> = unknown**  
 In this study, I participated in the preparation of materials for publication. My estimated percentage contribution is 20%.
- 11** Glod, B., **Pobozy, E.**, Marczak, S., Trojanowicz, M., *Capillary electrophoresis as a tool for speciation analysis of heavy metals*, Acta Chromatography, 6 (1996) 39-53.  
**IF<sub>(1996)</sub> = unknown**      **IF<sub>(2012)</sub> = 0.760**  
 In this study, I conducted some measurements, participated in manuscript preparation. My estimated percentage contribution is 30%.



## List of scientific papers published after the doctorate:

- 1** | **Poboży, E.,** *On-line preconcentration of trace elements for HPLC determination. A review*, *Chemia Analityczna* 44 (2) (1999) 119-134.

**IF<sub>(1999)</sub> = 0.564**

In this study, my estimated percentage contribution is 100%.
- 2** | Ostapczuk, P., **Pobozy, E.,** Baade, A., Emons, H., *Ion-chromatographic monitoring of main components of rain water in industrial and rural sites in Germany*, *Fresenius Environmental Bulletin* 11 (7) (2002) 326-331.

**IF<sub>(2002)</sub> = 0.309      IF<sub>(2012)</sub> = 0.641**

In this study, I conducted the measurements with ion chromatography. I participated in the interpretation of the results and prepared the materials for publication. My estimated percentage contribution is 60%.
- 3** | Pyrzyńska, K., **Pobozy, E.,** *On-line coupling of solid phase extraction sample processing with high-performance liquid chromatography*, *Critical Reviews in Analytical Chemistry* 32 (3) (2002) 227-243.

**IF<sub>(2002)</sub> = 2.074      IF<sub>(2012)</sub> = 2.892**

In this study, I participated in the preparation of materials for publication. My estimated percentage contribution is 50%.
- 4** | **Pobozy, E.,** Jarczowska, M., Trojanowicz, M., *Speciation of sulfur-containing anions by use of capillary electrophoresis*, *Chromatographia* 56 (11-12) (2002) 723-728.

**IF<sub>(2002)</sub> = 1.230      IF<sub>(2012)</sub> = 1.174**

In this study, I designed the measurement procedure and supervised measurements. I participated in the interpretation of results and preparation of the manuscript. My estimated percentage contribution is 70%.
- 5** | Dzierzgowska, M., **Poboży, E.,** Pyrzyńska, K., *Capillary electrophoretic determination of inorganic selenium species*, *Journal of Chromatography A* 984 (2) (2003) 291-295.

**IF<sub>(2003)</sub> = 2.922      IF<sub>(2012)</sub> = 4.612**

In this study, I formulated the research problem, planned and supervised experimental work. I participated in the interpretation of results and preparation of the manuscript. My estimated percentage contribution is 50%.
- 6** | **Pobozy, E.,** Halko, R., Krasowski, M., Wierzbicki, T., Trojanowicz, M., *Flow-injection sample preconcentration for ion-pair chromatography of trace metals in waters*, *Water Research* 37 (9) (2003) 2019-2026.

**IF<sub>(2003)</sub> = 1.812      IF<sub>(2012)</sub> = 4.655**

In this study, I planned, conducted and supervised the experimental works. I designed FI-HPLC system. I prepared the first draft of the manuscript and edited answers to the reviewers. My estimated percentage contribution is 60%.

- 7 **Pobozy, E.**, Knell, M., Kilian, K., Katakya, R., Trojanowicz, M., *Capillary electrophoresis speciation of chromium in leather tanning liquor*, *Electrophoresis* 24 (2003) 2259-2263.  
**IF<sub>(2003)</sub> = 4.040**      **IF<sub>(2012)</sub> = 3.621**  
 In this study, I planned and supervised the experimental works. I prepared the first draft of the manuscript and edited answers to the reviewers. My estimated percentage contribution is 60%.
- 8 Trojanowicz, M., **Pobozy, E.**, Gübitz, G., *Speciation of oxidation states of elements by capillary electrophoresis*, *Journal of Separation Science* 26 (11) (2003) 983-995.  
**IF<sub>(2003)</sub> = 2.108**      **IF<sub>(2012)</sub> = 2.591**  
 In this study, I participated in the preparation of materials for publication. My estimated percentage contribution is 30%.
- 9 Lewandowska, N., Dybko, A., Chudy, M., Wcisło, M., Pobozy, E., Brzózka, Z., *Microcapillary electrophoresis with fluorescence detection*, *Polish Journal of Chemistry* 80 (11) (2006) 1799-1806.  
**IF<sub>(2006)</sub> = 0.491**  
 In this study, I planned and performed CE measurements. My estimated percentage contribution is 10%.
- 10 **Pobozy, E.**, Król, E., Wójcik, L., Wachowicz, M., Trojanowicz, M., *HPLC determination of perfluorinated carboxylic acids with fluorescence detection*, *Microchimica Acta* 172 (3-4) (2011) 409-417.  
**IF<sub>(2011)</sub> = 3.048**      **IF<sub>(2012)</sub> = 3.434**  
 In this study, I planned and supervised HPLC and SPE measurements. I prepared the manuscript and edited answers to the reviewers. My estimated percentage contribution is 60%.
- 11 Trojanowicz, M., Wójcik, L., Musijowski, J., Koc, M., **Pobozy, E.**, Król, E., *New analytical methods developed for determination of perfluorinated surfactants in waters and wastes*, *Croatica Chemica Acta* 84 (3) (2011) 439-446.  
**IF<sub>(2011)</sub> = 0.763**      **IF<sub>(2012)</sub> = 0.614**  
 In this study, I participate in preparation of the manuscript. My estimated percentage contribution is 20%.
- 12 Kowalski, D., **Pobozy, E.**, Trojanowicz, M., *Flow-injection preconcentration of chloramphenicol using molecularly imprinted polymer for HPLC determination in environmental samples*, *Journal of Automated Methods & Management in Chemistry* art. no. 143416 2011.  
**IF<sub>(2011)</sub> = 0.467**      **IF<sub>(2012)</sub> = 0.565**  
 In this study, I planned and supervised the measurements, designed FI-HPLC system and interpreted the results. I participate in the manuscript preparation. My estimated percentage contribution is 50%.
- 13 Trojanowicz, M., Pobozy, E., Filaber, M., Koc, A., Garcia-Reyes, J.F., *Protein profiling in plant extracts using chip-based capillary electrophoresis for identification of genetically modified organisms (GMO)*, *Amino Acids*, 45 (2013) 575-575.  
**IF<sub>(2012)</sub> = 3.914**  
 I planned and supervised the measurements. I developed methods for maize proteins extraction and separation. I participated in the preparation of materials for publication. My estimated percentage contribution is 60%.

- 14 Troska, P., Masar, M., **Poboży, E.**, Bodor, R., *Separation of some pharmaceutical additives by microchip and capillary electrophoresis*, *Chemické Listy*, 107 (2013) 460-461.  
**IF<sub>(2012)</sub> = 0,453**  
In this study, I planned and supervised the research conducted using capillary electrophoresis method. My estimated percentage contribution is 20%.
- 15 Rodrigues, S.M., Oleksiak, Z., Ribeiro, D.S.M., Poboży, E., Trojanowicz, M., Prior, J.A.V., Santos, J.L.M., *Selective determination of sulphide based on photoluminescence quenching of MPA-capped CdTe nanocrystals by exploiting a gas-diffusion multi-pumping flow method*, *Analytical Methods*, 6 (2014) 7956-7966.  
**IF<sub>(2014)</sub> = 1.938**  
I planned and supervised the part of the experimental works and I took part in the discussion of results. My estimated percentage contribution is 10%

## 5.B ■ Monographs, scientific publications in international or national journals other than included in database referred to in sect. 5.A

### ■ List of chapters in books and monographs:

- 1 **Poboży, E.**, Pyrzyńska, K., Trojanowicz, M., *Flow methods in environmental analysis*. Hapter in the manography "New horizons and challanges in environmental analysis and monitoring", pp. 411-438. Centrum Doskonałości Analityki i Monitoringu Środowiskowego, Gdańsk 2003.  
I participated in the preparation of materials for publication. My estimated percentage contribution is 35%.
- 2 Musijowski, J., **Poboży, E.**, Trojanowicz, M., *Oznaczanie melatoniny metodą elektroforezy kapilarnej*. [*Determination of melatonin using capillary electrophoresis*]. Chapter in the monograph "Analiza przepływowa-metody i zastosowania" [Flow analysis-methods and applications] ,pp. 113-129. Wydawnictwo UJ, Kraków 2005.  
I planned and supervised experimental work on the separation of indole compounds. I participated in the preparation of materials for publication. My estimated percentage contribution is 50%.
- 3 **Poboży, E.**, Pyrzyńska, K., Biesaga, M., *Połączenie analizy przepływowej z metodami chromatografii i elektroforezy kapilarnej* [*Coupling of flow analysis with chromatography and capillary electrophoresis*]. Chapter in the monograph „Nowoczesne techniki analityczne” [Modern analytical techniques], pp. 113-143. Oficyna wydawnicza Politechniki Warszawskiej 2006.  
My estimated percentage contribution is 35%. I wrote the part of the chapter on the application of coupling systems FI-CE.
- 4 Granis, A., **Poboży, E.**, Dominguez, E., Narvaez-Garcia, A., Trojanowicz, M., *Konstrukcja i zastosowanie amperometrycznego bioczuJNIKA z unieruchomioną oksydazą aryloalkoholową do oznaczania alkoholi aromatycznych w układzie FIA* [*The construction and application of amperometric biosensor with immobilized oxidase for the determination of aromatic alcohols in FIA system*]. Chapter in the monograph „Analiza przepływowa. Metody i zastosowania,” t.2. Wydawnictwa Uniwersytetu Jagiellońskiego 2008, ISBN 978-83-233-2510-9.

I planned and supervised experimental work on the flow injection system. My estimated percentage contribution is 20%.

- 5 Latoszek, A., Garica-Ruiz, C., Marina, M.L., de la Mata, F.J., Gomez, R., Rasines, B., Cifuentes, A., **Poboży, E.**, Trojanowicz, M., *Zastosowanie dendrymerów w elektroforezie kapilarnej do identyfikacji żywności modyfikowanej genetycznie metodą określania profilu białek [Application of dendrimers in capillary electrophoresis for protein profiling in identification of genetic modification in foods]*. Chapter in the monograph „Analiza przepływowa. Metody i zastosowania,” t. 3, [Flow analysis. Methods and applications, vol.3] pp. 274-294. Wydawnictwa Uniwersytetu Jagiellońskiego 2012.

My estimated percentage contribution is 10% and it included consulting of experimental methodology.

- 6 Węgrzyn, J., Kremset, L., Kenndler, E., Gut, W., **Poboży, E.**, Trojanowicz, M., *Zastosowanie elektroforezy kapilarnej do badania oddziaływania wirusów z receptorami i przeciwciałami. [Application of capillary electrophoresis to study viruses interaction with receptors and antibodies]* Chapter in the monograph „Analiza przepływowa. Metody i zastosowania,” t. 3, [Flow analysis. Methods and applications, vol.3] pp. 258-273. Wydawnictwa Uniwersytetu Jagiellońskiego 2012.

My estimated percentage contribution is 20%. I planned and supervised the part of measurements using capillary electrophoresis and participated in preparation of manuscript.

#### List of reviewed conference materials:

- 6 **Poboży, E.**, Sentkowska, A., Trojanowicz, M., *Zastosowanie zmodyfikowanych powierzchniowo kapilar do profilowania białek metodą elektroforezy kapilarnej [Application of modified capillaries for protein profiling using capillary electrophoresis]*, Chapter in the monograph “Chromatografia w praktyce” [Chromatography in practice], Wydawnictwo Politechniki Poznańskiej 2011, ISBN 978-83-7775-084-1, (2011) 105-117.

My estimated percentage contribution is 80%. I planned and supervised the measurements using capillary electrophoresis and wrote the manuscript.

#### List of popular-scientific papers:

- 7 **E.Poboży**  
*Elektroforeza kapilarna – fascynujące narzędzie w rękach analityka [Capillary electrophoresis- fascinating analytical method]*, *Analityka*, 2 (2001) 11-17.

My estimated percentage contribution is 100%.

- 8 **E.Poboży**  
*Sposoby poprawiania wykrywalności w elektroforezie kapilarnej [Sensitivity improvement in capillary electrophoresis]*, *Analityka*, 1 (2006) 26-29.

My estimated percentage contribution is 100%.

**5.C ■ Overall Journal Citation Reports (JCR) impact factor per publication year**

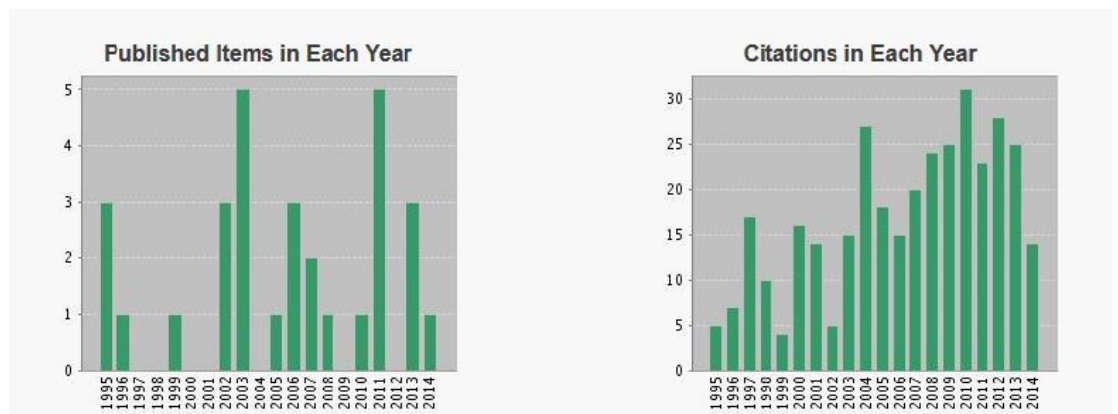
■ **IF= 67.6734**

**5.D ■ Number of citations according to the Web of Science (WoS)**

■ **Number of citations = 361** (without auto-citations), September 2014 .

**5.E ■ Index Web of Science**

■ **H-index = 12** (September 2014)



Results found:	35
Sum of the Times Cited [?]:	368
Sum of Times Cited without self-citations [?]:	361
Citing Articles [?]:	344
Citing Articles without self-citations [?]:	337
Average Citations per Item [?]:	10.51
h-index [?]:	12

## 5.F ■ Leadership in international and national research projects and participation in such projects ■

1997	Individual research grant BW-1383/10/97 (Faculty of Chemistry, University of Warsaw) „Oznaczanie metali przejściowych w próbkach wód” [ <i>Determination of transition metals in water samples</i> ].
1998	Individual research grant BW 1418/6/98 (Faculty of Chemistry, University of Warsaw) „Specjacja nieorganicznych związków siarki metodą elektroforezy kapilarnej”. [ <i>Speciation of inorganic sulfur compounds using capillary electrophoresis</i> ].
2002	Individual research grant BW 1562/18/2002 (Faculty of Chemistry, University of Warsaw) „Badanie zmian metabolicznych melatoniny z zastosowaniem elektroforezy kapilarnej” [ <i>Study of melatonin metabolism using capillary electrophoresis</i> ].
2003	Individual research grant BW 1602/11/2003 (Faculty of Chemistry, University of Warsaw) „Badanie zmian metabolicznych melatoniny z zastosowaniem elektroforezy kapilarnej” [ <i>Study of melatonin metabolism using capillary electrophoresis</i> ].
2004	Individual research grant BW-1637/12/04 (Faculty of Chemistry, University of Warsaw) „Przepływowe oznaczanie związków fluoroorganicznych w próbkach środowiskowych” [ <i>Determination of perfluorinated organic compounds in environmental samples using flow system</i> ].
2008	Individual research grant BW 501/68-179214 (Faculty of Chemistry, University of Warsaw) „Zastosowanie elektroforezy kapilarnej do identyfikowania genetycznie modyfikowanej żywności” [ <i>Application of capillary electrophoresis for identification of genetic modification in food</i> ].
2010-2007	An investigator in grant project KBN 4T09A 07222 „Analiza specjacyjna selenu z zastosowaniem chromatografii jonowej i elektroforezy kapilarnej” [ <i>Speciation analysis of selenium using ion chromatography and capillary electrophoresis</i> ].
2010-2014	Head of the grant project NCN N N204 014938 „Zastosowanie wysokosprawnych metod rozdzielania do identyfikacji żywności modyfikowanej” [ <i>Application of high performance separation methods for identification of genetic modification in food</i> ].

## 5.G ■ International and national awards for scientific achievements

1995-1996	Scholarship of the Rector of the University of Warsaw for PhD thesis;
2003	Scientific Scholarship of the Rector of the University of Warsaw ;
2004	Scholarship of the Rector of the University of Warsaw;

- 2007 Scientific award, Faculty of Chemistry, University of Warsaw;
- 2007 First Prize awarded for the best poster of: „Zastosowanie HPLC i elektroforezy kapilarnej do oznaczania wybranych metabolitów katecholoamin w płynach ustrojowych”, podczas II Konferencji: „Analityczne zastosowania chromatografii cieczowej” Warszawa [Application of HPLC and capillary electrophoresis for catecholamine metabolites determination in body fluids, II Conference “Analytical applications of liquid chromatography”, Warsaw].

## 5.H ■ Presentations at international and national conferences

### ■ National conferences:

- 1 Poboży, E., Głód, B.K., Kaniewska, J., Trojanowicz, M., Ion Chromatography and Capillary Electrophoresis of Organotin Compounds with Preconcentration Using Solid-Phase Extraction, XVIII Seminarium Naukowe nt.: Chromatograficzne metody badania związków organicznych, Katowice, 9 i 10 czerwca 1994r (lecture).
- 2 Poboży, E., Krasowski, M., *Wysokosprawna chromatografia kationów metali przejściowych w układzie z on-line zatężaniem metodą przepływowo-wstrzykową*, Seminarium Wstrzykowa Analiza Przepływowa, Kraków, 24-25 września 1998 (lecture).
- 3 Poboży, E., Trojanowicz, M., „Przepływowa analiza wstrzykowa: oddzielnie i w sprzężeniu z HPLC, GC i CE” - VI Konferencja Chromatograficzna, wrzesień 1999, Toruń, (plenary lecture).
- 4 Poboży, E., Pyrżyńska, K., „Układy on-line SPE w oznaczeniach metodą HPLC”, VII Ogólnopolska Konferencja Chromatograficzna „Chromatograficzne metody badania związków organicznych, czerwiec 2001, Katowice-Szczyrk (plenary lecture).
- 5 Poboży, E., „Zastosowanie elektroforezy kapilarnej w analizie chemicznej”, XI Poznańskie Konwersatorium Analityczne, kwiecień 2002, Poznań (lecture).
- 6 Poboży, E., „Zastosowanie elektroforezy kapilarnej w analizie specjacyjnej”, Zastosowanie metod AAS, ICP-AES i ICP-MS w analizie śladowej, grudzień 2002, Warszawa (plenary lecture).
- 7 Biesaga, M., Poboży, E., „Zastosowanie HPLC w specjacji”, Zastosowanie metod AAS, ICP-AES i ICP-MS w analizie śladowej, listopad 2003, Warszawa (lecture).
- 8 Musijowski, J., Poboży, E., Trojanowicz, M., „Oznaczanie melatoniny metodą elektroforezy kapilarnej”, IV Ogólnopolskie Sympozjum Analiza Przepływowa, Kraków 2004 (lecture).
- 9 Poboży, E., „Elektroforeza kapilarna w połączeniu z układami przepływowymi” IV Ogólnopolskie Sympozjum Analiza Przepływowa, Kraków 2004 (lecture).
- 10 Lewandowska, N., Wyżykiewicz, J., Dybko, A., Chudy, M., Wcisło, M., Poboży, E., Brzózka, Z., „Elektroforeza kapilarna w mikroukładzie”, XLIX Zjazd PTCh Gdańsk wrzesień 2006, (oral presentation).

- 11 Pobozy, E., „*Reakcje enzymatyczne w elektroforezie kapilarnej*”, VIII Konferencja Chromatograficzna „Zastosowanie technik chromatograficznych w analizie środowiskowej i klinicznej” Łódź 21-23.04. 2008 (plenary lecture).
- 12 Pobozy, E., „*Zastosowanie HPLC i CE do identyfikacji organizmów modyfikowanych genetycznie w materiale roślinnym*”, III Konferencja Chromatograficzna-Analityczne zastosowania chromatografii cieczowej Warszawa, październik 2008 (lecture).
- 13 Pobozy, E., „*Oznaczanie kwasów perfluorokarboksyłowych metodą HPLC z detekcją fluorescencyjną*”, IV Konferencja Analityczne zastosowania chromatografii cieczowej Warszawa, październik 2009 (lecture).
- 14 Pobozy, E., Puchalska, P., Trojanowicz, M., „*Zastosowanie elektroforezy kapilarnej do identyfikowania żywności modyfikowanej genetycznie*”, VIII Polska Konferencja Chemii Analitycznej, Kraków, lipiec 2010, (oral presentation).

#### ■ international conferences:

- 1 Trojanowicz, M., Poboży, E., Maruszak, W., Glod, B., Biesaga, M., „*Chemical speciation of selected elements by capillary electrophoresis*”; 10th International Symposium on High Performance Capillary Electrophoresis and Related Microscale techniques, Kyoto, Japan, July, 1997 (lecture).
- 2 Poboży, E., Trojanowicz, M., „Hyphenation of flow injection sample processing with HPLC and capillary electrophoresis systems”; 2nd International Symposium and Course „Teaching and learning of modern bioanalytical methods”, Pecs, Hungary, May, 2000 (lecture).
- 3 Trojanowicz, M., Pobozy, E., „*Chemical speciation of elements by capillary electrophoresis*”, 8th International Symposium on Separation Science, September, 2002, Toruń (plenary lecture).
- 4 Pobozy, E., Michalski, A., Trojanowicz, M., “Determination of melatonin and its precursors and metabolites using CE”, 4th International Symposium and Course “Analytical and Bioanalytical Monitoring Methods, June 2003 Cluj Napoca, Romania (lecture).
- 5 Pobozy, E., Musijowski, J., “On-line preconcentration methods in capillary electrophoresis”, 5th International Symposium and Course “Teaching and learning of modern bioanalytical methods”, June 2004 Sofia, Bulgaria (lecture).
- 6 Trojanowicz M., Pobozy, E., Ekiert, E., Musijowski, J., Bidzinski, A., Michalski, A., Sotowska-Brochocka, J., „*Capillary electrophoresis determination of selected neurotransmitters and neuromodulators in pharmaceutical preparations and physiological fluids*”, 12<sup>th</sup> International Symposium Advances and Application of Chromatography in Industry, Bratislava, July 2004 (lecture).
- 7 Musijowski, J., Pobozy, E., Trojanowicz M., “*Determination of melatonin using capillary electrophoresis*”, 4th International Symposium on Separation in Biosciences, October 2005, Utrecht, The Netherlands (oral presentation).



- 8 Pobozy, E., "Laser-induced fluorescence detection in capillary electrophoresis", 6th International Symposium and Course - Theoretical background of capillary electromigration methods in bioanalysis" Prague, Czech Republic, June 2005 (lecture).
- 9 Musijowski, J., Pobozy, E., Trojanowicz M., „Flow injection system for organic fluorine determination using sodium biphenyl reagent”, - Theoretical background of capillary electromigration methods in bioanalysis" Prague, Czech Republic, June 2005 (lecture).
- 10 Pobozy, E., "Enzymatic reaction in capillary electrophoresis", 7th International Symposium and Course - Teaching and learning of modern bioanalytical methods, June 2007, Pecs, Hungary (lecture).
- 11 Pobozy, E., Trojanowicz, M., " Application of high performance separation methods in detection of genetically modified plant materials", 8th International Symposium and Course - Teaching and learning of modern bioanalytical methods, June 2008, Nitra, Slovakia (lecture).
- 12 Pobozy, E., Król, E., Wachowicz, M., Trojanowicz, M., Szostek, B., "HPLC Determination of Perfluorinated Carboxylic Acids with Fluorescence Detection", 9th International Symposium and Course - Teaching and learning of modern bioanalytical methods, September 2009, Blagoevgrad, Bulgaria (lecture).
- 13 Pobozy, E., "Application of capillary electrophoresis in maize protein profiling", 10th International Symposium and Summer School on Bioanalysis", July 2010, Zagreb, Croatia, (lecture).
- 14 Pobozy, E., Jaskólska, M., Połec, I., Trojanowicz, M., "Determination of degradation products of organophosphorous chemical warfare agents using capillary electrophoresis", 11th International Symposium and Course - Teaching and learning of modern bioanalytical methods, Graz, Austria, September 2011 (lecture).
- 15 Pobozy, E., Oleksiak, Z., Trojanowicz, M., "Application of Quantum Dots in Analytical Chemistry", 12th International Symposium and Course - Teaching and learning of modern bioanalytical methods, Cluj, Rumunia, July 2012 (lecture).
- 16 Filaber, M., Pobozy, E., Trojanowicz, M., "Protein Profiling in Plant Extracts Using Capillary Electrophoretic Chips", 12th International Symposium and Course - Teaching and learning of modern bioanalytical methods, Cluj, Romania, July 2012 (oral presentation).
- 17 Koc, A., Pobozy, E., Garcia Reyes, J.F., Molina, A., Trojanowicz, M., "Targeted and Non-targeted Methods of Analysis of Genetically Modified Foods", 12th International Symposium and Course - Teaching and learning of modern bioanalytical methods, Cluj, Romania, July 2012 (oral presentation).
- 18 Sentkowska, A., Pobozy, E., Trojanowicz, M., "Modifications of Capillaries for Protein Profiling in Analysis of Plant Extracts Using Capillary Electrophoresis", 12th International Symposium and Course - Teaching and learning of modern bioanalytical methods, Cluj, Romania, July 2012 (oral presentation).
- 19 Poboży, E., Filaber, M., Trojanowicz, M., "Application of Capillary Electrophoretic Chips in Protein Profiling of Plant Extracts for Identification of Genetic Modifications of

- Maize”, 13th International Symposium and Course - Teaching and learning of modern bioanalytical methods, Debrecen, Hungary, July 2013 (lecture).
- 20 Trojanowicz M., Musijowski, J., Koc, M., Król, E., Szostek, B., Poboży, E., Garcia-Reyes, J., “Determination of perfluorinated organic compounds and total organic fluorine (TOF) in environmental samples” XVII Euroanalysis - Analytical chemistry for human well-being and sustainable development, Warsaw, August 2013 (keynote lecture).
- 21 Trojanowicz M., Poboży, E., Filaber, M., Koc, A., Garcia-Reyes, J., “Protein profiling in plant extracts using chip-based capillary electrophoresis for identification of genetically modified organism (GMO)” 13<sup>th</sup> International Congress on Amino Acids, peptide and Proteins, Galveston, Texas, U.S.A., October 2013 (lecture).

■ **Invited Lectures:**

**Poboży, E.**, „Capillary electrophoresis – new analytical method”, International Trade Fair of Analytical, Measurement and Control Technology EuroLab 2001, Warsaw.

## 6. Teaching and popularization achievements and information on international collaborations of the applicant

### 6.A ■ Participation in European, other international, and national programs

- Program ERASMUS - Substantive care of students from Spain and Portugal.
- Program CEEPUS (Central European Exchange Program for University Studies).

Since 2000 I am an active member of net H-076-HU-0010, and next RO-0010 in CEEPUS Program. I take care of foreign students who received scholarships at Faculty of Chemistry.

### 6.B ■ Active participation in international and national scientific conferences:

Besides presentations listed in section 5. I am author or co-author the following posters presented at national and international conferences:

#### ■ national conferences (posters)

- 1 **Poboży, E.**, Trojanowicz, M., „Specjacja chromu (III) i (VI) metodą chromatografii cieczowej”, V Polska Konferencja Chemii Analitycznej, Gdańsk, wrzesień 1995.
- 2 **Poboży, E.**, Maruszak, W., Trojanowicz, M., "Specjacja siarki metodą elektroforezy kapilarnej", VI Polska Konferencja Chemii Analitycznej, Gliwice, lipiec 2000.
- 3 **Poboży, E.**, Czarkowska, W., „Zastosowanie elektroforezy kapilarnej z detekcjami

- optycznymi do rozdzielania i oznaczania wybranych biomolekuł i mikroorganizmów*", VII Polska Konferencja Chemii Analitycznej „Analityka w rozwoju cywilizacji” Toruń 2005.
- 4 **Poboży, E.**, Granis, A., Dominguez, M., Trojanowicz M., „*Zastosowanie bioczuJNIka amperometrycznego z unieruchomioną oksydazą aryloalkoholową do oznaczania alkoholi aromatycznych w układzie FIA*”, V Ogólnopolskie Sympozjum Analiza Przepływowa Kraków, październik 2006.
  - 5 Dzierzgowska, M., **Poboży, E.**, Pyrżyńska, K., „*Analiza nieorganicznych form selenu techniką elektroforezy kapilarnej*”, Selen, pierwiastek ważny dla zdrowia – fascynujący dla badacza. Warszawa, kwiecień 2007.
  - 6 **Poboży, E.**, Naczelnik, I., Trojanowicz, M., „*Zastosowanie HPLC i elektroforezy kapilarnej do oznaczania wybranych metabolitów katecholoamin w płynach ustrojowych*”, II Konferencja „Analityczne zastosowania chromatografii cieczowej”, październik 2007, Warszawa.
  - 7 Węgrzyn, J., Kremser, L., Kenndler, E., **Poboży, E.**, Trojanowicz, M., „*Zastosowanie elektroforezy kapilarnej do badania oddziaływania wirusów z receptorami*”, VI Ogólnopolskie Sympozjum Analiza Przepływowa, Uniwersytet Jagielloński, październik 2008.
  - 8 Latoszek, A., Garcia-Ruiz, C., Marina, M.L., de la Mata, F.J., Gomez, R., Rasines B., Cifuentes, A., **Poboży, E.**, Trojanowicz, M., „*Zastosowanie dendrymerów do oznaczania białek metodą elektroforezy kapilarnej w żywności modyfikowanej genetycznie i*”, VI Ogólnopolskie Sympozjum Analiza Przepływowa, Uniwersytet Jagielloński, październik 2008.
  - 9 Jaskólska, M., **Poboży, E.**, Połec, I., Trojanowicz, M., „*Zastosowanie elektroforezy kapilarnej do oznaczania produktów degradacji bojowych środków trujących*”, V Konferencja Analityczne zastosowania chromatografii cieczowej Warszawa, październik 2010.
  - 10 Sentkowska, A., **Poboży, E.**, Trojanowicz, M., „*Zastosowanie zmodyfikowanych powierzchniowo kapilar do profilowania białek metodą elektroforezy kapilarnej*”, IX Konferencja Chromatograficzna, Poznań, czerwiec 2011.
  - 11 Poboży, E., Pacocha, N., Trojanowicz, M., „*Zastosowanie mikroukładów elektroforetycznych do oznaczania białek w moczu*”, X Konferencja Chromatograficzna, Lublin, wrzesień 2014

#### ■ international conferences (posters):

- 1 Poboży, E., Trojanowicz, M., 8th Danube Symposium on Chromatography, Warsaw 1991
- 2 Poboży, E., Głód, B.K., Kaniewska, J., Trojanowicz, M., „*Ion Chromatography and Capillary Electrophoresis of Organotin Compounds with Preconcentration Using Solid-Phase Extraction*”, International Ion Chromatography Symposium 1994, Turin, 19-22 September 1994.

- 3 Poboży, E., Krasowski, M., Trojanowicz, M., „*FIA sample Pretreatment for HPLC of transition metal ions in environmental samples*”; 10th International Conference on Flow Injection Analysis, Prague, Czech Republic, June, 1999.
- 4 Dzierzgowska, M., Poboży, E., Pyrżyńska, K., „*Analysis of inorganic selenium by capillary electrophoresis*”, 3rd Aegean Analytical Chemistry Days, Polihnitos, Lesvos, Greece, 29 September - 3 October 2002.
- 5 Radomska, A., Poboży, E., Koncki, R., Glab. S., „*Determination of dialysate creatinine by micellar electrokinetic capillary electrophoresis*”, Euroanalysis, September, 2002, Dortmund, Germany.
- 6 Radomska, A., Poboży, E., Koncki, R., Glab. S., „*Analysis of creatinine in the spent dialysate by capillary electrophoresis for control of hemodialysis process*”, 8th International Symposium on Separation Science, September, 2002, Toruń.
- 7 Dzierzgowska, M., Poboży, E., Pyrżyńska, K., „*Capillary electrophoresis determination of inorganic selenium species*”, XXVII Symposium “Chromatographic methods of investigating the organic compounds” Katowice-Szczyrk, June 2003.
- 8 Poboży, E., Ekiert, E., Trojanowicz, M., Bidziński A., „*Determination of selected neurotransmitters and their metabolites in physiological samples using capillary electrophoresis*”, XXVII Symposium “Chromatographic methods of investigating the organic compounds” Katowice-Szczyrk, June 2003.
- 9 Poboży, E., Michalski, A., Sotowska-Brochocka, J., Trojanowicz M., „*Determination of melatonin and its precursors and metabolites using capillary electrophoresis*”, 25th International Symposium on Chromatography, October 2004, Paris, France.
- 10 Rzygalinski, I., Poboży, E., Trojanowicz, M., “*Enzymatic derivatisation in capillary electrophoresis using oxidase/peroxidase bienzymatic system*”, 7th International Symposium and Course - Teaching and learning of modern bioanalytical methods, June 2007, Pecs, Hungary.
- 11 Sentkowska, A., Poboży, E., Puchalska, P., Trojanowicz, M., “*Application of capillary electrophoresis for maize proteins profiling for identification of genetic modifications*”, 10th International Symposium and Summer School on Bioanalysis”, July 2010, Zagreb, Croatia.
- 12 Piskor, A., Poboży, E., Koc, A., Trojanowicz, M., “*Protein profiling in extracts of maize with different GMO content*”, 11th International Symposium and Course - Teaching and learning of modern bioanalytical methods, Graz, Austria, September 2011.
- 13 Kowalczyk, K., Poboży, E., Trojanowicz, M., “*Application of ionic liquids in protein profiling with capillary electrophoresis*”, 11th International Symposium and Course - Teaching and learning of modern bioanalytical methods, Graz, Austria, September 2011.
- 14 Oleksiak, Z., Poboży, E., Santos, J.L., Trojanowicz, M., “*Application of Quantum Dots as fluorophores in flow analysis*”, 13th International Symposium and Course - Teaching and learning of modern bioanalytical methods, Debrecen, Hungary, July 2013.
- 15 Pacocha, N., Poboży, E., Filaber, M., Trojanowicz, M., “*Application of CE chips for*

- determination of proteins in urine”, 13th International Symposium and Course - Teaching and learning of modern bioanalytical methods, Debrecen, Hungary, July 2013.
- 16 Jastrzębska, K., Poboży, E., Koc, A., Trojanowicz, M., “Application of immunotests to identify genetically modified foods”, 13th International Symposium and Course - Teaching and learning of modern bioanalytical methods, Debrecen, Hungary, July 2013.
- 17 Poboży, E., Filaber, M., Koc, A., Garcia-Reyes, J., Trojanowicz M., “Protein profiling in plant extracts using chip -based capillary electrophoresis for identification of genetically modified organisms (GMO)” XVII Euroanalysis Analytical chemistry for human well-being and sustainable development Warsaw, August 2013.
- 18 Oleksiak, Z., Poboży, E., Trojanowicz M., Santos, J.L.M., Rodrigues, S., Abreu, V., “Application of quantum dots as fluorescent sensors in flow analysis” XVII Euroanalysis Analytical chemistry for human well-being and sustainable development Warsaw, August 2013.

#### 6.C ■ Participation in organizational committees of international and national scientific conferences

- In 2000, I was a member of the Organizational Committee of the *8th International Conference on Flow Analysis*, Warsaw, Poland;
- In 2002 I co-organized International Summer School for CEEPUS Program at Faculty of Chemistry;
- In 2006 I co-organized 12th General CEEPUS Evaluation Conference Warsaw, Faculty of Chemistry;
- Scientific Committee X Chromatographic Conference, Lublin 2014.

#### 6.D ■ Other awards and distinctions

- Second degree teaching award for a lecture titled „Liquid Chromatography” (Faculty of Chemistry, University of Warsaw, 2003r.).
- Second degree teaching award (Faculty of Chemistry, University of Warsaw, 2011r.).
- Diploma Thesis (Chemical Technical student from Warsaw) performed under my care has been recognized as the best in Poland in the competition of Polish Federation of Engineering in 1992 and was sent to the International Competition in Essen, Germany.

#### 6.E ■ Participation in international and national scientific organizations and societies

- Since 2008 I am a member of Team of Chromatography and Related Techniques, Analytical Chemistry of the Polish Academy of Sciences Committee.
- Since 2005 I am a member of Sciences Committee of Faculty of Chemistry, University of Warsaw

## 6.F ■ Teaching achievements and achievements in popularization of science

- I started my teaching activity as a technical staff. During this time I conducted laboratory for first-year students.
- ■ I conducted my teaching activity Division of Inorganic and Analytical Chemistry
  - (1) Tutorials and Laboratory of General Chemistry for the first-year students of the Faculty of Chemistry;
  - (2) Tutorials and Laboratory of Analytical Chemistry for the second-year students of the Faculty of Chemistry;
  - (3) Tutorials and Laboratory of General and Analytical Chemistry for the first-year students of the Faculty of Biology;
  - (4) Laboratory of Analytical Chemistry in Environmental Studies" for the third-year bachelor-level students of the Interdepartmental Studies in Environment Protection;
  - (5) Introduction to general chemistry – Tutorials and Laboratory. Additional classes for students of Macro-field Nanostructures Engineering;
  - (6) Introduction to general chemistry – Tutorials and Laboratory. Additional classes for students of Nuclear power engineering and nuclear chemistry;
- ■ **Actual teaching activity:**
  - (1) Specialization Laboratory (in Polish and English) (Master Studies) (summer semester);
  - (2) Laboratory of Instrumental Analysis (in Polish and English) (Master Studies) (winter semester);
  - (3) HPLC Laboratory – an e-learning and practical course (Master Studies) (winter semester);

In 2006, in cooperation with dr M.Biesaga I organized innovative at Faculty of Chemistry, laboratory for students. Students participate in the practical studies in the lab and e-learning course by the internet. The laboratory was organized due to the grant (UW Teaching Innovation Fund FID 500/04-66 "The blended e-learning and stationary course of HPLC"
  - (4) Lecture „Liquid chromatography” (Master Studies) (winter semester). For students of Faculty of Chemistry, Biology, PhD students and Warsaw University of Technology;
  - (5) Monographic Lecture „Electromigrating Techniques”, (Master Studies).
  - (6) Laboratory of the environmental analysis (in Polish and English). Macro-Field Environmental Management (Master Studies)
- ■ **Other teaching activities**
  - (1) Postgraduate Studies for Teachers

- Lecture – Environmental Protection, Laboratory of Inorganic Chemistry;
- (2) Postgraduate Study “Application of chemistry in Environmental Protection. Course of Chromatography”;
- (3) The classes for The Polish Children's Fund;
- (4) The classes for the apprentices (Chemical high school).

■ **Summary of popularization activities:**

Participation in organization of the exhibition dedicated to M.Cwiet. It was presented at University of Warsaw.

## 6.G ■ Scientific advice to students and specializing physicians

■ **Bachelor degree theses:**

- I was a supervisor of 5 bachelor degree theses at the Laboratory for Flow Analysis and Chromatography, Faculty of Chemistry, Warsaw University.

■ **Master degree theses:**

- I was a scientific advisor of 25 master degree theses at the Laboratory for Flow Analysis and Chromatography, Faculty of Chemistry, Warsaw University .

- I was a supervisor of 7 master degree theses at the Laboratory for Flow Analysis and Chromatography, Faculty of Chemistry, Warsaw University.

■ **Scientific advisor for foreign students** at the Laboratory for Flow Analysis and Chromatography, Faculty of Chemistry, Warsaw University.

Program Ceepus (20 students) i Program Erazmus (10 students)

## 6.H ■ Internships in foreign or national research or academic centers

- 1992 University of Hull, England, scholarship British Consul, 2 months;
- 1994 Department of Analytical Chemistry, University of Torino, Torino, Italy, 1 month;
- 1995 Department of Analytical Chemistry, University of Torino, Torino, Italy, 1 month;
- 1998 DAAD , Forschungszentrum Jülich, Germany, scientific scholarship, 2 months;
- 2000 Institute of Pharmaceutical Chemistry, Karl-Franzens University of Graz, Austria, scholarship CEEPUS, 1 month;
- 2002 Department of Analytical Chemistry, University of Pecs, Hungary, scholarship CEEPUS, 1 month;
- 2003 Department of Chemistry, Charles University, Prague, Czech Republic, scholarship CEEPUS, 1 month;

- 2004 Department of Chemistry, University of Vienna, Vienna, Austria, scholarship CEEPUS, 1 month;
- 2005 University of Zagreb, Zagreb, Croatia, scholarship CEEPUS, 1 month;
- 2007 Department of Chemistry, Charles University, Prague, Czech Republic, scholarship CEEPUS, 1 month;
- 2009 Department of Analytical Chemistry, University of Pecs, Hungary, scholarship CEEPUS, 1 month;
- 2011 University of Medicine and Pharmacy, Targu Mures, Romania, scholarship CEEPUS, 1 month;
- 2012 Institute of Pharmaceutical Chemistry, Karl-Franzens University of Graz, Austria, scholarship CEEPUS, 1 month;
- 2013 Department of Chemistry, University of Vienna, Vienna, Austria, scholarship CEEPUS, 1 month.

#### **6.I ■ Participation in expert panels and juries**

- I was the reviewer of research applications KBN (4 projects) and NCN (3 projects).

#### **6.J ■ Reviews of publications in international and national journals**

- I have reviewed articles for publication in such journals:

Chemia Analityczna/Warsaw, 10 articles;

Polish Journal of Environmental Studies, 2 articles;

Orbital, 1 article;

Journal of Chromatography – some;

Journal of Chromatography Science;

Electrophoresis – some;

Journal of Biochemical and Biophysical Methods – some;

Food Analytical Methods - some.

#### **6.K ■ Other achievements, not listed in 5**

I was the reviewer of book „Electromigration techniques – Theory and Practice ” MALAMUT, 2012.

*Poboży*