



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Petre CAPOTA**  
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E-mail [pcapota@imnr.ro](mailto:pcapota@imnr.ro); [petrecapota@yahoo.com](mailto:petrecapota@yahoo.com)  
Nationality Romanian  
Date of birth July 24 1951  
Gender male

### Work experience

Dates 1978 - 2011  
Occupation or position held Scientific researcher, grade 2,  
Main activities and responsibilities Material analyses using : OES, FAAS, DCP, ICP-OES. 1995-2005 head of analysis laboratory, RAO  
Name and address of employer National R&D Institute for Nonferrous and Rare Metals INCDMNR-IMNR  
Biruintei 102 blvd, Pantelimon, Ilfov, Romania  
Type of business or sector Chemical Analysis, Research and development in nonferrous and rare metals

Dates 1976-1978  
Occupation or position held physicist  
Main activities and responsibilities Metalografic analysis, ARC/spark OES analysis  
Name and address of employer Metallurgical Research Institute / ICEM, Mehadii blvd, Bucharest  
Type of business or sector Research and development in ferrous and metals

Dates 1975-1976  
Occupation or position held physicist  
Main activities and responsibilities Metalografic analysis, ARC/spark OES analysis  
Name and address of employer NEFERAL nonferrous factory, Biruintei 100 blvd, Pantelimon, Ilfov, Romania  
Type of business or sector Chemical Analysis, Research and development in nonferrous and rare metals

### Education and training

Dates 1992 - 1997  
Title of qualification awarded PhD in Chemistry  
Principal subjects/occupational skills covered Environmental analysis by ICP-OES  
Name and type of organisation providing education and training Faculty of chemistry, University of Bucharest

Dates 1970 - 1975  
Title of qualification awarded Degree in Physics- specially Optics - Spectroscopy - Plasma

Principal subjects/occupational skills covered | Optics - Spectroscopy - Plasma

Name and type of organisation providing education and training | Faculty of Physics, University of Bucharest

Dates | 1965 - 1970

Title of qualification awarded | Bacalaureate Diploma

Principal subjects/occupational skills covered | General education

Name and type of organisation providing education and training | High School, department of real George Călinescu - Bucharest

**Personal skills and competences**

Mother tongue(s) | Specify mother tongue : Romanian

Other language(s)

Self-assessment  
European level (\*)

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	B2	Independent user	A2	Basic user	A2	Basic user	A2	Basic user
B1	Independent user	B1	Independent user	B1	Independent user	A2	Basic user	A2	Basic user

(\*) Common European Framework of Reference for Languages

Social skills and competences | Team work  
Communication skills  
Responsibility  
Teaching certificate, biblical knowledge, enrolled in MA Theology, musical skills

Organisational skills and competences | Participation in several national and international scientific programmes  
Organised person

Technical skills and competences | Metalografic analysis, ARC/spark OES analysis  
Material analyses using : OES, FAAS, DCP, ICP-OES. 1995-2005 head of analysis laboratory, RAO

Computer skills and competences | Operating computer (Word, Excel, ...)  
Competent with most Microsoft Office programs

**Additional information**

**Annexes**

1. List of publications ( selection)
2. List of national and international projects

## LIST OF PUBLICATIONS (SELECTION)

1. Mechanisms of excitation and ionization in hollow cathode discharge.  
I. Iova, P.Capotă și Ș.Porumbescu *Rev. Roum. Phys.* **21**, 781, 1976
2. Study of chemical interference in plasma emission spectrometry.  
P.Dumitrescu și P.Capotă *Rev.Roum.Chim.* **41**, 3, 1996
3. The Analysis of Environmental Samples by ICP-AES  
P.Capotă, G.E.Baiulescu și M.Constantin *Chem. Anal. (Warsaw)* **41**, 419, 1996
4. Determination of boron in combination with titanium and zirconium.  
M. Ropotă și P. Capota *Rev. Chim. (Bucharest)* **47**, 50, 1996
5. Determination of impurities in iron –base alloys by DCP-AES  
V. Purcaru, P. Capota și M. Boșcaiu *Metallurgy and New Materials*, vol **III**, 154, 1995
6. Analysis of iron-based alloys by ICP-AES  
P. Capota și M. Constantin *Metallurgy and New Materials*, vol **IV**, 57, 1996
7. Determination of impurities and alloying elements in copper based materials  
by the AES-ICP-LISA  
M. Constantin și p. Capota *Metalurgia* **1**, 24, 1996
8. Metal speciation in sea water  
S.Birghilă, P.Capotă și M.Constantin *Analele Univ. Ovidius, Seria Inginerie*, vol **VI**, 10, 1995
9. About the analysis of the trace elements content in petrochemical effluent by ICP-AES  
S.Birghilă, E.Chirilă și P.Capotă *Analele Univ. Ovidius, Seria Inginerie*, vol **VII**, 36, 1996
10. Determination of Microelements in Human Teeth using the ICP-AES method  
P.Capotă, M.Ropotă, M.Constantin și V.Stoenescu *Chem. Anal.(Warsaw)* **42**, 721, 1997
11. Determination of trace elements in wool fibers by ICP-AES  
M.Costache, S.Stănescu și P.Capotă *Rev. Chim. (Bucharest)* **48**, 232, 1997
12. Environmental pollution assesement of nonferrous metallurgical site by determination of  
microelements in human teeth, hair and nails by ICP-OES method  
M. Ropotă, P. Capotă, M. Constantin  
*Book of Abstracts at 5<sup>th</sup> International Symposium of Applied Bioinorganic Chemistry*,  
13-17 april 1999 Corfu, Greece.
13. Determination of copper, cadmium, zinc and lead in Argeș River in Romania during four season  
by ICP-OES and ASV.  
Anca Iulia Stoica, P. Capotă and G.E.Baiulescu *Analytical Letters*, 33 (14). 3025-3035 (2000).
14. The content of some microelements in mineral waters from Covasna and Harghita Romanian districts.  
Gabriela-Raluca Babaua, Anca Iulia Stoica, Petre Capota, George-Emil Baiulescu  
*Environmental Geology* (2003) 45: 58-64
15. Optimization of molybdenum quantitative separation by precipitation with  $\alpha$ -benzoine-oxime starting from  
acidic solutions.  
Irinel Badea, Luminița Vlădescu, Valerică Dumitrescu, Lucia Marin, Petre Capota  
*Rev. Chim (București)* 59 (12).1296 – 1300. (2008)

## LIST OF NATIONAL AND INTERNATIONAL PROJECTS (SELECTION)

## INTERNATIONAL PROJECTS:

Project Grant	Position	Period
Project Sf NATO" Science for Peace" SfP 97 1858: "Improvement of the technological parameters in the electrochemical production of Mg-Nd alloys from oxyfluoride media"	researcher	2000-2003
IMEP – 9 Trace Elements in Water	researcher	1998-1999
IMEP – 14 Trace Elements in Sediment	researcher	1999-2000
IMEP – 12 Trace Elements in Water	researcher	2001-2002
IMEP – 20 Trace Elements in Tuna Fish	researcher	2003-2004
INFRAS – C3 156/05.11.2002 "Performance evaluation of food in testing laboratories by interlaboratory comparison scheme"	partner	2002-2005

## NATIONAL PROJECTS:

Project Grant	Position	Period
Core Project Code PN 06-23 03 02 "Studies and research on the use of microwaves in the analysis of soils in areas with high heavy metal pollution"	. responsible project	. responsible project
Core Project Code PN 06-234 03 04 " Methods of characterization of potential pollutant of slag containing lead, from lead recovery from lead containing waste"	. responsible project	. responsible project
Core Project Code PN 09 24/2009 "Development of advanced analytical methods, comparative, non-ferrous alloys to characterize the special bonding, hydrogen adsorbing alloys and composite materials	. responsible project	. responsible project
As an analyst in various national and international research programs: Relansin 1688. 1789, 2106; Mener 308, 375, 435; Craft Metmincoated, Invent 1977; Mathnantech, Infrac 2002; Agral 203; Defazor matmincoated C22; Finamat Math.; Ceres 4198; Bionanomat C 138 (306); Biomine; etc.	analyst	1990-2011