

Personal information

Family name / Given name

Telephone

Fax

E-mail

Nationality

Date of birth

Sex | male

Professional experience

Period 1993-present

Romanian

Function or position | Senior researcher (III, II, I)

Main activities and responsibilities Research in electrochemistry: electrocatalysis, bioelectrochemistry, electrochemistry of diamond

Name and address of working place | Institute of Physical Chemistry of Romanian Academy, Spl. Independentei 202, Bucuresti, Romania

Type of activity Research

Period 1988-1993

Function or position Research fellow

Main activities and responsibilities Research in electrochemistry: electroanalysis, electrocatalysis

SPĂTARU NICULAE

Name and address of working place | Institute of Physical Chemistry of Romanian Academy, Spl. Independentei 202, Bucuresti, Romania

Type of activity Research

Period 1984-1988

Function or position Chemist

Main activities and responsibilities Research in electrochemistry: voltammetry, polarography, stripping analysis

Name and address of working place | Institute of Physical Chemistry of Romanian Academy, Spl. Independentei 202, Bucuresti, Romania

Type of activity Research

Period 1986-2001

Function or position | Associate lecturer

Main activities and responsibilities | Teaching analytical chemistry and basic electrochemistry

Name and address of working place Department of Analytical Chemistry, Polytechnic Institute from Bucharest, Romania

Type of activity | Teaching

Period 1982-1984

Function or position | Chemist

Main activities and responsibilities | Chlorosodic industry

Name and address of working place | Chemical Plant Giurgiu, Romania

Type of activity | Control of equipment

Page 1/4 - Curriculum vitae of Surname(s) First name(s)

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Education

Period 1989-1993

Qualification / diploma Doctor in Chemistry (PhD)

Main disciplines studied / professional Phisical chemistry, electrochemistry of semiconductors

abilities acquired

Name of institution Romanian Academy, Institute of Physical Chemistry

Period 1981 - 1982

Qualification / diploma Specialization diploma in Physical Chemistry (MSc)

Main disciplines studied / professional

abilities acquired

Name of institution Polytechnic Institute of Bucharest, Faculty of Chemistry

Physical Chemistry

Period 1977-1981

Qualification / diploma Diploma in Chemistry (Bachelor Degree)

Main disciplines studied / professional Chemistry

abilities acquired

Name of institution Polytechnic Institute of Bucharest, Faculty of Chemistry

Aptitudes and professional abilities

Research stages at:

Denomination Visiting professor
Period 06.2014 – 07.2014

Institution name Universite de Paris-Sud 11, Orsay

Location FRANCE

Denomination Visiting professor
Period 05.2011 – 06.2011

Institution name Universite de Paris-Sud 11, Orsay

Location FRANCE

Denomination Visiting scientist (JST fellowship)

Period 09.2007 – 10.2007

Institution name Kanagawa Academy of Science and Technology (KAST)

Location JAPAN

Denomination Visiting scientist (JST fellowship)

Period 09.2006 – 10.2006

Institution name Kanagawa Academy of Science and Technology (KAST)

Location JAPAN

Denomination Visiting scientist (JST fellowship)

Period 10.2005 – 12.2005

Institution name Kanagawa Academy of Science and Technology (KAST)

Location JAPAN

Denomination Visiting scientist (NEDO fellowship)

Period 01. 2002 – 12. 2003

Institution name The University of Tokyo, Fujishima's Laboratory

Location JAPAN

Denomination Guest researcher
Period 10.1999 – 04.2000

Institution name The University of Tokyo, Fujishima's Laboratory

Location JAPAN

Denomination Visiting scientist (STA fellowship)

Period 10.1997–12.1997

Institution name Osaka National Research Institute

Location JAPAN

Denomination Visiting scientist (JITA fellowship)

Period 10.1994–12.1994

Institution name Osaka National Research Institute

Location JAPAN

Denomination Guest researcher (CEC fellowship)

Period 04.1993-08.1993

Institution name Centre de Recherche en Electrochimie Minérale et en Génie des Procédés

Location St. Martin d'Heres, FRANCE

Denomination Guest researcher (AIST fellowship)

Period 01.1991-03.1991

Institution name Government Industrial Research Institute, Osaka

Location JAPAN

Mother tongue

Romanian

Known foreign languages

Autoevaluation

European level (*)

English

French

ı	Understanding				Speaking				Writing	
)	Listening		Reading		Spoken interaction		Spoken production			
1	C1	Experimented user	C1	Experimented user	C1	Experimented user	C1	Experimented user	C1	Experimented user
ì	C1	Experimented user	C1	Experimented user	C1	Experimented user	C1	Experimented user	C1	Experimented user

^(*) Common European Framework of Reference for Languages

Socials abilities and competences

Good relationship with colleagues, researchers from my institute, national and international universities. Good relationship with students I worked with.

Management competences

- Head of the Laboratory of Electrode Processes an Electrochemical Corrosion, Institute of Physical Chemistry;
- Habilitation in Chemistry since 2014
- CNADTCU member (Chemistry Comission) since 2016

Management experience:

- Director of project PN-II-ID-PCE-2011-3-0272 "Interactional and functional effects of the substrate on the electrochemical behavior of micro and nanostructured metallic and oxidic deposits"
- Member of international research projects:
- Electrochemical reduction of carbon dioxide research project supported by Research Institute of Innovative Technology for the Earth (RITE), Japan 2002-2003
- Development of Advanced Nanostructured Materials for Energy Conversion and Storage Core Research for Evolutional Science & Technology (CREST) Program (supported by JST, Japan) – 2005-2007

Scientific and technical competences

Publications

- Book Chapter: Anodic voltammetry at conductive diamond electrodes and its analytical applications, in "Diamond Electrochemistry" (A. Fujishima, Y. Einaga, T.N. Rao, D.A. Tryk Editors), Elsevier, Amsterdam 2005, ISBN 0-444-51908-4, p. 287-308.;
- Patent: A. Fujishima, D.A. Tryk, N. Spătaru, B.V. Sarada, T.N. Rao, Method for determining concentration of xanthine type compound and sensor for use therein, WO 01/98766 A1 (WO/2001/098766).
- over 80 publications in ISI journals

Hirsch index = 17

Number of citations 1409 (September 2022)

https://www-webofscience-com.am.e-nformation.ro/wos/alldb/citation-report/804d0c15-c524-4561-9aec-7546c2ea36ac-4fe56f62

PC user competences

Other competences and aptitudes

PC user for specific programs

 "Ilie Murgulescu" prize of the Romanian Academy for the group of works "Study of the electrochemical performances of some semiconductor electrodes in view of solar to chemical direct energy conversion" (1997)

Driving linceses

В

Annexes

Publication list

Bucharest 25.01.2023

Dr. Niculae Spătaru

