



Europass Curriculum Vitae

Personal information

Family name / Given name

Telephone

Fax

E-mail

Nationality

Date of birth

Sex

SPĂTARU NICULAE

male

Professional experience

Period 1993-present

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

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

Education

Period	1989-1993
Qualification / diploma	Doctor in Chemistry (PhD)
Main disciplines studied / professional abilities acquired	Physical chemistry, electrochemistry of semiconductors
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	Physical Chemistry
Name of institution	Polytechnic Institute of Bucharest, Faculty of Chemistry
Period	1977-1981
Qualification / diploma	Diploma in Chemistry (Bachelor Degree)
Main disciplines studied / professional abilities acquired	Chemistry
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																																																		
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English																																																		
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	(*) 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 and Electrochemical Corrosion, Institute of Physical Chemistry;
- Habilitation in Chemistry since 2014
- Member of National Council for the Attestation of University Titles, Diplomas and Certificates (CNADTCU) – Chemistry commission (2016 – 2024)

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 = 21

Number of citations 1900 (June 2026)

<https://0p107pccy-y-https-www-scopus-com.z.e-information.ro/pages/citationOverview?authorIds=6602581239&origin=AuthorNamesList>

Doctoral School activities

Doctoral supervisor – School of Advanced Studies of the Romanian Academy

- 2017 – 2022 – Dr. Mihai Marian Radu – (“*Electrochemical and electrocatalytic properties of some multicomponent micro- and nanostructured materials*”)
- 2020 – 2025 – Mihai Marius Alexandru – (“*Electrosynthesis and electrochemical characterization of hybrid materials with electrocatalytic and photoelectrocatalytic properties*”)
- 2022 – present – Georgeta Olivia Moga – (“*Carbon-metal oxide hybrid systems with predefined structures and electrocatalytic properties*”)

Jury member of PhD thesis

- 2011 – Dr. Muhammad Ali Mohsin – Norwegian University of Science and Technology (NTNU) (“*Sulfur-metal Interactions with Applications in Electrochemical Sensors*”)
- 2012 – Dr. Florina Teodorescu – University of Bucharest (“*New chemically modified electrodes with improved electrocatalytic properties*”)
- 2013 – Dr. Elena Ionela Neacșu – Romanian Academy (“*Corrosion study of some metallic materials in ionic and aqueous solutions*”)
- 2014 – Dr. Silviu Drob – Romanian Academy (“*Development and modeling of the functional characteristics of new advanced alloys and non-polluting anti-corrosion protections*”)
- 2015 – Dr. Céline Byl – Université Paris Sud, Centre d’Orsay (“*Synthèse et caractérisation de nanocomposites à base de ZnO pour des applications thermoélectriques*”)
- 2015 – Dr. Carmen-Marinela Mihăilescu – University of Bucharest (“*Nanostructured biosurfaces for the detection of pathogenic microorganisms and important biomarkers in laboratory diagnostics*”)
- 2022 – Dr. Mihaela Costache – University “Politehnica” Bucharest (“*Electrosynthesis and characterization of new nanostructured surfaces for the development of chemo/biosensors with medical, environmental and food industry applications*”)

- 2023 – Dr. Roberta-Geanina Irodia – University “Politehnica” Bucharest (“*Advanced electrochemical methods for organic pollutants oxidation*”)
- 2024 – Dr. Nicolas Onseciat – Université Paris-Saclay (“Propriétés de transport dans les oxydes à haute entropie”)
- 2026 – Dr. Alexandra Constantinescu – University “Politehnica” Bucharest (“*Functional platforms for the control, modulation and detection of biologically active agents*”)

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 licences

B

Annexes

Publication list

Bucharest
June 25, 2026

Dr. Nicolae Spătaru

