



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Mihai Anastasescu**

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Nationality

Romanian

Date of birth

Gender

Male

Desired employment / Occupational field

**Senior Researcher (CS1)
Physical-Chemistry**

Work experience

Dates

2018-present

Occupation or position held

Senior Researcher (first class – CS1)

Main activities and responsibilities

AFM, SEM, TEM Images analysis; Photoluminescence (PL); Hall Effect; Spectroscopic Ellipsometry in UV-VIS-NIR and Mid-IR, UV-Vis; Semiconductors; Films and thin layers; Multifunctional materials

Name and address of employer

Romanian Academy, Institute of Physical Chemistry "Ilie Murgulescu", 202 Spl. Independentei, Bucharest

Type of business or sector

Research

Dates

2014-2017

Occupation or position held

Senior Researcher (second class – CS2)

Main activities and responsibilities

Scanning microscopies (AFM, STM) and microscopy image processing; Ellipsometry data modeling; Multifunctional materials

Name and address of employer

Romanian Academy, Institute of Physical Chemistry "Ilie Murgulescu", 202 Spl. Independentei, Bucharest

Type of business or sector

Research

Dates

2007-2014

Occupation or position held

Scientific Researcher (third class – CS3)

Main activities and responsibilities

Oxide materials with multifunctional applications; AFM, Spectroscopic Ellipsometry (SE), Electrochemical-SE at solid/liquid interface under potentiostatic control

Name and address of employer

Romanian Academy, Institute of Physical Chemistry "Ilie Murgulescu", 202 Spl. Independentei, Bucharest

Type of business or sector

Research

Dates

1997-2007

Occupation or position held

Scientific Researcher (CS)

Main activities and responsibilities

Spectroscopic ellipsometry on thin films in air and at the solid/liquid interface under potentiostatic control; Electrochemical techniques; Vacuum techniques

Name and address of employer

Romanian Academy, Institute of Physical Chemistry "Ilie Murgulescu", 202 Spl. Independentei, Bucharest

Type of business or sector	Research				
Dates	1995-1997				
Occupation or position held	Research Assistant (AC)				
Main activities and responsibilities	Work function measurements, Chemosorption, BET				
Name and address of employer	Romanian Academy, Institute of Physical Chemistry "Ilie Murgulescu", 202 Spl. Independentei, Bucharest				
Type of business or sector	Research				
Education and training					
Dates	1997-2005				
Title of qualification awarded	PhD				
Principal subjects/occupational skills covered	Chemistry (Physical Chemistry)				
Name and type of organisation providing education and training	Romanian Academy – Institute of Physical Chemistry "Ilie Murgulescu", Bucharest				
Level in national or international classification	ISCED 6				
Dates	1995-1996				
Title of qualification awarded	Master in Semiconductor Physics				
Principal subjects/occupational skills covered	Semiconductors Physics				
Name and type of organisation providing education and training	University of Bucharest / Faculty of Physics				
Level in national or international classification	ISCED 5				
Dates	1990-1995				
Title of qualification awarded	Bachelor				
Principal subjects/occupational skills covered	Solid State Physics				
Name and type of organisation providing education and training	University of Bucharest / Faculty of Physics				
Level in national or international classification	ISCED 5				
Personal skills and competences					
Mother tongue(s)	Romanian				
Other language(s)					
Self-assessment					
European level (*)					
English					
French					
Understanding					
Speaking					
Writing					
C1	Listening	Reading	Spoken interaction	Spoken production	
C1	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
B2	Independent user	Independent user	Independent user	Independent user	Independent user
(*) Common European Framework of Reference for Languages					
Computer skills and competences	Good command of Microsoft Office, Origin, Image processing software (SPIP), Ellipsometry programs (Wollam-WASE), Image processing / analysis programs, etc.				

Organisational skills and competences	Experience in national research projects and to work in multidisciplinary research teams: Team member in 11 International Projects, and 33 National Projects and Grants ; 1 Grant CNCSIS/2002 (director), 1 Grant PCCA/2014 (responsible); 1 Grant PED (director);
Technical skills and competences	Atomic force microscopy (AFM), Scanning tunnelling microscopy in air (STM) and in electrochemical environment (EC-STM), <i>Ex-situ</i> (air) and <i>In-situ</i> (Single Crystal/Aqueous solution interface) Spectroscopic Ellipsometry in UV-VIS-NIR and Mid-IR; Work function measurements, Photoluminescence, Hall Effect, Piezoelectric effect measurements (d_{33} , C, $\tan\delta$)
Area of competence	Surface Science/Multifunctional materials: microscopy techniques (AFM) and image analysis; high vacuum techniques, work function measurements (diode method, vibrating capacitor method); spectroscopic ellipsometry; catalysis: volumetric BET specific surface measurement, electrochemistry: cyclic voltammetry, differential capacity measurements, ellipsometry and at the single-crystal / solution interface; Electrochemical Scanning tunneling microscopy (EC-STM); Modeling of ellipsometry data on thin films in UV-VIS-NIR and Mid-IR.
Other skills and competences	Referee for ISI Journals: Elsevier (Mat Sci Eng B, Appl Surf Sci, J Alloy Comp, Surf Coat Technol, J Saudi Chem Soc, Superlattices and Microstructures, Thin Solid Films, J Luminescence, etc), MDPI (Nanomaterials, Materials, Coatings, Gels, etc); Rev Roum Chim, Applied Physics Letters, Nanoscale Adv; J Mat Chem C; Catal Today, etc.
Publications	>180 ISI papers; 6 book chapters
Driving licence	B-type since 1993
Additional information	"I.G. Murgulescu" Prize of the Romanian Academy (2008) for the group of papers "Optical and micro-structural characterization of oxidic nanostructured films"
Scopus	Hirsch-factor 27 ; >2600 citations

23.06.2026

