CURRICULUM VITAE

Name: **MARCU**

First name: **IOAN-CEZAR**

Title: ***Dr. Habil.***

Place of birth: Cluj-Napoca, Romania
Date of birth: the 27th of June 1971

Actual position: **Professor of Chemical Technology & Catalysis, Head of Department**

Affiliation: Lab of Chemical Technology & Catalysis, *Dept. of Inorganic & Organic Chemistry, Biochemistry & Catalysis*, ***Faculty of Chemistry***, **University of Bucharest**
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STUDIES & ACADEMIC QUALIFICATIONS

July **2013** **Habilitation** in Chemistry at the University of Bucharest with the dissertation "Catalysis by oxides: conversion of light organic molecules" (the committee report here)

1996-**2002** **Doctorate** jointly supervised at the University of Bucharest and, since 1999, the University "Claude Bernard" Lyon 1, France (mention "Très Honorable avec Félicitations")
Supervisors: Prof. Ioan Săndulescu & Dr. Jean-Marc M. Millet
Field of Specialization: ***Catalysis and Physical-Chemistry of Interfaces***

1995-**1996** **M. Sc.** at the Faculty of Chemistry, University of Bucharest
Field of Specialization: ***Catalysis and Heterogeneous Catalytic Processes***

1990*-**1995** **B. Sc.** at the Faculty of Chemistry, University of Bucharest
Field of Specialization: ***Chemistry and Physics***

1985-**1989** "Mihai Eminescu" Industrial High School of Botoşani, Romania
Profile: ***Industrial Chemistry***

PROFESSIONAL EXPERIENCE

2020-present ***Full Professor*** at the Department of Inorganic & Organic Chemistry, Biochemistry & Catalysis, Faculty of Chemistry, University of Bucharest

2014-present ***PhD supervisor*** in the field of **Chemistry – *Heterogeneous Catalysis*** at the Doctoral School in Chemistry, University of Bucharest

2007-present ***Senior Researcher*** at the Research Center for Catalysts & Catalytic Processes, University of Bucharest

2005-2020 ***Associate Professor*** at the Dept. of Chemical Technology & Catalysis / Dept. of Organic Chemistry, Biochemistry & Catalysis, Faculty of Chemistry, University of Bucharest

2002-2005 ***Lecturer*** at the Department of Chemical Technology & Catalysis, Faculty of Chemistry, University of Bucharest

1998-2002 ***Tenured Assistant*** at the Department of Chemical Technology & Catalysis, Faculty of Chemistry, University of Bucharest

1995-1998 ***Temporary Teaching Assistant*** at the Department of Chemical Technology & Catalysis, Faculty of Chemistry, University of Bucharest

* 1989-1990: Mandatory military service.

RESEARCH TRAININGS ABROAD

- **Post-Doc position** (*CNRS*) at *Institut Charles Gerhardt, Laboratoire des Matériaux Avancés pour la Catalyse et la Santé*, Montpellier, France, from the 1st of October **2006** to the 30th of September **2007** (Advisor: Dr. François Fajula).
- **PhD research positions** (*MIRA* scholarships) at *Institut de Recherches sur la Catalyse – CNRS* associated to *Université "Claude Bernard" Lyon I*, Villeurbanne, France, from February the 1st to July the 31st **2002**, **2001** and **2000** (Supervisor: Dr. Jean-Marc M. Millet).

DOMAINS OF COMPETENCE

- Metal oxide-based catalysts: preparation, characterization and catalytic applications.
- *In situ* electrical conductivity measurements of semi-conducting oxide catalysts.
- Layered double hydroxides (LDH) and ex-LDH mixed oxides catalytic materials.
- Catalytic activation and functionalization of light alkanes: selective oxidation, total oxidation.
- Catalytic organic transformations: hydrodeoxygenation, condensation, oxidation, esterification.
- Flue gas desulfurization by selective adsorption of sulfur dioxide.

AWARDS

- **The Prize of the Senate of the University of Bucharest** for ***"The most prestigious publication"*** in the field of Exact Sciences and Engineering, the book chapter "Recent Innovative Developments of Layered Double Hydroxide-Based Hybrids and Nanocomposite Catalysts" (co-authored with Mayra G. Álvarez and Didier Tichit), Bucharest, **2022**.
- **The Grand Prize "Dissertation of the year" awarded by the Senate of the University of Bucharest** for supervising the work „Study of cobaltite-based catalytic materials for methane combustion" authored by Marius-Alexandru MIHAI, Bucharest, **2020**.
- **The Prize of the Senate of the University of Bucharest** for ***"The best master dissertation"*** supervised in the field of Exact Sciences and Engineering (author Marius-Alexandru MIHAI), Bucharest, **2020**.
- **Honorary Diploma** awarded by the Romanian Chemical Society "for outstanding contribution in promoting chemistry", Bucharest, **2019**.
- **Peer Review Award 2018** "for placing in the top 1 % of reviewers in Cross-Field on Publons' global reviewer database".
- **The Prize of the Senate of the University of Bucharest** for ***"The best bachelor thesis"*** supervised in the field of Exact Sciences and Engineering (author Ştefan-Bogdan IVAN), Bucharest, **2017**.
- ***Researcher of the Year* - 3rd Prize**, Gala of Prizes in Education, Bucharest, **2010**.
- The ***Young Scientist Prize*** of *International Association of Catalysis Societies*, in recognition of the contribution "Reaction mechanism of n-butane oxidative dehydrogenation over tetravalent pyro-phosphates catalysts" presented at the 13th International Congress on Catalysis, Paris, July 16th, **2004**.

OTHER DIPLOMAS

- ***Advanced French Language Diploma (Diplôme Approfondi de Langue Française – DALF***), *Institut Français de Bucarest*, **2005**.

TEACHING EXPERIENCE

GIVEN COURSES

Master's level

- *Catalytic Materials* (in Romanian and, starting from 2011, in English) – 2008 - to present
- *Methods of Preparation and Characterization of Catalysts* – 2002 - 2007

Bachelor's level

- *Chemical Technology* – 2008 - to present
- *Micro- and Mesoporous Materials for Catalysis* – 2008 - 2022

- *Chemistry and Technology of Materials* (in Romanian and in French) – 1999 - 2007
- *Principles of Heterogeneous Catalysis* (in Romanian and in French) – 2002 - 2007

DIPLOMA WORKS SUPERVISED
Master's level: 9
Bachelor's level: 29 (of which **20 Erasmus students** from *Institut Universitaire de Technologie – Université Paul Sabatier Toulouse III*)

PhD THESES SUPERVISED
Defended theses: 2
- "Layered double hydroxide-based catalysts for fine organic synthesis" by Alexandra-Elisabeta STAMATE, defended on December 16, **2022**. The thesis is available at the URL: https://theses.hal.science/tel-03906532
- "Transition-metal-containing LDH-derived mixed oxides as catalysts for methane combustion" by Hussein Mahdi S. AL-AANI, defended on September 16, **2020**. The thesis is available at the URL: https://theses.hal.science/tel-02946422

Submitted theses: 2 (available at the URL: https://rei.gov.ro/)
Ongoing doctoral research projects: 2

RESEARCH GRANTS
- As a grant director: **3**
- As a project coordinator: **3**
- As a member of the research team: **7**

PUBLICATIONS & SCIENTIFIC COMMUNICATIONS
- University textbooks: **6**, of which **4** course notes and **2** laboratory manuals.
- Book contributions: **7**, of which **3** chapters and **4** encyclopedias' articles.
- Didactic contributions: **8**.
- Editorials: **2**.
- Research papers: **97**, of which:
  - **82** in journals indexed in Scopus and Web of Science (66 as a main author),
  - **13** in journals indexed in other international databases (8 as a main author),
  - **2** in proceedings (as a main author).
- ***Scientific communications*** (published in book of abstracts): **75** (of which **44** oral presentations).
- ***Invited lectures*** at national and international conferences: **12**.
- ***Invited seminars*** abroad: **17**.

RESEARCH METRICS
- ***Citations*** (without self-citations): > **1600** (according to Scopus - June 2025).
- ***H-index:*** Scopus – **26**; Web of Science Core Collection – **26**; Web of Science All Databases – **27**; ResearchGate – **27**; Google Scholar – **29.**
- ***Cumulative Impact Factor:* > 250** (Impact factors in the year of publication).

PUBLIC RESEARCHER PROFILES
- **Scopus Author ID:** https://www.scopus.com/authid/detail.uri?authorId=6603854041
- **ORCID:** https://orcid.org/0000-0002-8381-2076
- **Researcher ID:** https://www.webofscience.com/wos/author/rid/B-1509-2008
- **Google Scholar:** https://scholar.google.ro/citations?user=8JjLuQ0AAAAJ&hl=en