



## Crina-Anca Socaci

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**Address:** INCDTIM; Donat Str. 67-103 Cluj-Napoca, Romania, 40002093, Cluj-Napoca, Romania (Work)

### WORK EXPERIENCE

01/03/2023 – CURRENT CLUJ-NAPOCA, Romania

**SENIOR RESEARCHER I** NATIONAL INSTITUTE FOR RESEARCH AND DEVELOPMENT OF ISOTOPIC AND MOLECULAR TECHNOLOGIES INCDTIM

Synthesis and characterization of graphene-based nanomaterials with applications in photocatalytic degradation of emerging pollutants and waste products.

Writing project proposals. Writing scientific papers. Project management activities.

**Address** Donat 67-103, 400335, CLUJ-NAPOCA, Romania

01/05/2013 – 28/02/2023 Cluj-Napoca, Romania

**SENIOR RESEARCHER II** INCDTIM

Synthesis and characterization of graphene-based nanomaterials with potential applications in sensors (chemical and electrochemical) and photocatalytic degradation of emerging pollutants.

Synthesis and characterization of hybrid materials like core-shell functionalized magnetic nanoparticles based on magnetite and organic compounds with possible applications in medicine and catalysis. (January 2011-January 2014). Writing project proposals. Writing scientific papers. Project management activities.

01/01/2011 – 01/05/2013

**SENIOR RESEARCHER III** INCDTIM CLUJ-NAPOCA

Research activities in the field of magnetic nanoparticles functionalized with organic compounds

**Business or Sector** Professional, scientific and technical activities

01/10/2008 – CURRENT

**SENIOR RESEARCHER III** CENTER FOR ORGANIC AND ORGANOMETALLIC SUPRAMOLECULAR CHEMISTRY, BABES BOLYAI UNIVERSITY, UBB CLUJ-N

Project leader (2008-2011) Research in the field of organic supramolecular chemistry, hydrogen-bonding interactions, organic synthesis, HPLC/MS. Since 2011 team member (2011-onwards) in the field of synthesis of carbon quantum dots for application in electronic devices. Writing publications, project proposals, management activities.

**Business or Sector** Professional, scientific and technical activities

16/10/2006 – 01/10/2008 Romania

**POSTDOCTORAL RESEARCHER** FACULTY OF CHEMISTRY, BABES BOLYAI UNIVERSITY CLUJ-NAPOCA

Synthesis and characterization of compounds in the field of supramolecular organic chemistry. Performing activities related to project management, reports and results dissemination.

**Business or Sector** Professional, scientific and technical activities

01/01/2005 – 01/07/2006

**MARIE CURIE POSTDOCTORAL RESEARCHER** NATIONAL AND KAPODISTRIAN UNIVERSITY ATHENS, GREECE

Research in the field of nucleobases oxidation (mainly guanine), HPLC for the identification and isolation of oxidation products of glucopyranosylguanine.

## EDUCATION AND TRAINING

15/11/1999 – 15/11/2004 CLUJ-NAPOCA, Romania

**PHD** Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University Cluj-Napoca, Romania

Stereochemistry and conformational analysis, nucleoside derivatization.

**Address** 11 Arany Janos Str., 400335, CLUJ-NAPOCA, Romania | **Field of study** Chemistry |

**Thesis** Abstract <http://www.chem.ubbcluj.ro/~organica/abstracturi/crina.pdf>

01/10/1999 – 01/07/2000 CLUJ-NAPOCA, Romania

**MASTER OF SCIENCE** Faculty for Chemistry and Chemical Engineering, Babes Bolyai University Cluj-Napoca

Heterocyclic Chemistry

**Address** 11 Arany Janos Str., 400335, CLUJ-NAPOCA, Romania

01/10/1995 – 01/07/1999 CLUJ-NAPOCA, Romania

**BACHELOR** Faculty for Chemistry and Chemical Engineering, Babes-Bolyai University Cluj-Napoca

Chemistry

**Address** 11 Arany Janos Str., 400335, CLUJ-NAPOCA, Romania

## LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH LANGUAGE</b>	C2	C2	C2	C2	C2
<b>GERMAN LANGUAGE</b>	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ORGANISATIONAL SKILLS

### Project manager

**RO-NO-0616, contract no. 29/2020** (Norway Grants - Collaborative Research Projects 2019 Call) - *TiO<sub>2</sub> nanotubes/graphene-based nanomaterials to address the emerging contaminants pollution – GRAFTID (2020-2024)*

**Romanian national project: PNII-RU-TE-2014-4-0305 (2015-2017)** *Graphene-porphyrin supramolecular assemblies for chemical and electrochemical detection of hydrogen peroxide-an oxidative stress marker*

**Romanian national project: PN II ID\_2358 (2009-2011)** *Design, formation and properties of supramolecular assemblies stabilized by H-bonding between nucleobases*

### Project responsible

**ATTRACT** Third Party Project (funded by the European Union's Horizon 2020 Programme) - *Carbon quantum dots/graphene hybrids with broad photoresponsivity – BANDPASS (2019-2020)*

## COMMUNICATION AND INTERPERSONAL SKILLS

### Communication and interpersonal skills

Positive attitude, communicative and cooperative, good team member, flexible and responsive, ability to inspire trust and respect, capable to build productive professional relationships, proven ability to manage a team to achieve research aims

## ● JOB-RELATED SKILLS

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### Job-related skills

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NMR, HPLC/MS (ionic trap, Agilent) – Training on „Development of LC-MS/MS (IT) methods by optimization of trap and ESI source parameters“ (july 2009), advanced organic synthesis (including nucleoside derivatization), UV-irradiation and gamma-radiolysis followed by products identification of modified nucleosides, etc  
Training on ISO/CEI 17025:2005 (Renar, may 2010)

**Publications: 62 papers, Hirsch index 21, <https://www.researchgate.net/profile/Crina-Socaci-2>  
<https://publons.com/researcher/2817065/crina-a-socaci/>**

Member of: Romanian Chemists Association, Romanian Catalysis Association

Referee for: *Environmental Pollution, Colloids and Surfaces B, Nanomaterials, Molecules, Material Chemistry and Physics, Journal of Organic Chemistry, European Polymer Journal, Revue Roumaine de Chimie, Carbon, Nanomaterials*

### Additional information

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**Remote evaluator: REA/A/02 Evaluation – Call(s): HORIZON-MSCA-PF-2024 – Postdoctoral Fellowship (07/10/2022 - ongoing); HORIZON-MSCA-PF-IF-2023 - Individual Fellowships (07/10/2023 la 06/12/2023), HORIZON-MSCA-PF-IF-2022 - Individual Fellowships (05/10/2023 la 06/12/2022); H2020-MSCA-IF-2019 Topic(s): MSCA-IF-2019 - Individual Fellowships (07/10/2019 to 06/12/2019)**

#### **Awards:**

**2018 – "Nicolae Teclu" prize (collectively) of the Romanian Academy for 2016 - for Graphene derivatives with catalytic and electrocatalytic properties**

**2002-2003:** DAAD fellowship at Humboldt University of Berlin (Prof. Juergen Liebscher), Germany

**June 2002:** CEEPUS scholarship at Charles University of Prague, Czech Republic

**Research stages: May 2008:** Invited researcher at Texas University at Austin (Prof. Jonathan Sessler)

**June 2006:** Secondment research stage at CNRS Bologna, Italy (Prof. C. Chatgililoglu)

**June 2001-July 2001:** 2 months World Bank fellowship at Humboldt University of Berlin (Prof. Juergen Liebscher), Germany