

Curriculum Vitae

Dr. Andreea Laura Scutaru (previous name: Chibac)

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Date and Place of Birth: March 27th 1985 in Pascani, Iasi.

Researcher at the "Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania, Polyaddition and Photochemistry Department

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Education

Postdoctoral Fellow (June 2014 – December 2015): “Al. I. Cuza” University Iasi, Romania, Chemistry Faculty, POSDRU project (POSDRU/159/1.5/S/137750) “Doctoral and Postdoctoral Programs - support for increasing the competitiveness of research in Sciences”; Project proposal: “*Hybrid materials based on polymers and nanoparticles for applications in catalysis and optics*”, Mentor: Prof. Dr. Ionel Mangalagiu. During this project, 3 scientific papers were published and 5 presentations were attended.

Ph.D. diploma (February 2013) “Petru Poni” Institute of Macromolecular Chemistry, Thesis title: “*New acrylic polymers and block copolymers for photo(bio)applications*”, Supervisor Dr. Emil C. Buruiana, obtained qualificative: „Excellent”.
<http://www.icmpp.ro/doctorate/rezumat/rezumatAChibac.pdf>

Master degree (February 2011) in Applied Coordination Chemistry, Chemistry Faculty, “Al. I. Cuza” University, Iasi (average 9.65 (maximum 10), dissertation mark 10 (maximum 10)).

Bachelor degree (July 2008), Technological Biochemistry specialty, Chemistry Faculty, “Al. I. Cuza” University, Iasi (9.82 from maximum 10, bachelor thesis mark - 10)

Professional experience

Employed from November 2012 at the Petru Poni Institute of Macromolecular Chemistry Iasi, Polyaddition and Photochemistry Department:

- **September 2018 - to date:** Scientific researcher III (CSIII),

- **February 2014 to august 2018:** Scientific Researcher (CS),
- **November 2012 - January 2014:** Scientific Research Assistant (AC)

Research expertise:

- development of nanocomposite and polymeric materials for fluorescent sensor and photocatalysis (degradation of organic pollutants and organic reactions) applications;
- synthesis of monomers, (block) copolymers, inorganic nanoparticles *in situ* and *ex situ* (Ag, Au, TiO₂) and organic-inorganic hybrid composites;
- photopolymerization studies;
- structural and physicochemical characterization of the synthesized compounds/materials: FTIR, NMR, UV-Vis, fluorescence, SEM, EDX, TEM, XRD, SAXS etc;
- photocatalysis- catalytic activity study, reaction mechanism study;
- fluorescence studies – quenching mechanism, selective detection.

Research internships in foreign Laboratory

1-31 March 2010 and 16 January-17 February 2012: France - Université de Haute-Alsace, Institut de Science des Matériaux de Mulhouse, Surfaces and Interfaces Complexes Department. *Activity:* photopolymerization studies on some urethane-oligodimethacrylates and *in situ* photogeneration of silver/gold nanoparticles in the polymer network.

September 2018: France - East Paris Institute of Chemistry and Materials Science (ICMPE), Paris, Researcher mobility project (PN-III-DCD-RU-MC-2018-2) "New metal-free photocatalytic materials with applicability in organic synthesis performed under green chemistry principles".

20 October – 10 November 2019: Austria - Graz University of Technology, Graz, Researcher mobility project (PN-III-P1-1.1-MC-2019-0378) "Elucidation of reaction mechanisms in the presence of photocatalysts embedded in polymer supports and improvement of the photocatalysts efficiency."

Papers, publications and scientometrics indicators:

- publications: **28 articles ISI indexed**; for **17 papers** A. L. Scutaru (former Chibac) is **the main author**;
- **hirsh index** is **7**;
- **proceedings** at international events: **2**;
- presentations in **national and international conferences: 40 (29 oral communications and 11 posters)**;
- member in **9 national projects**:
- manager of **2 researcher mobility projects**: PN-III-DCD-RU-MC-2018-2 No. 32/14.06.2018 New metal-free photocatalytic materials with applicability in organic synthesis performed under green chemistry principles and PN-III-P1-1.1-MC-2019-0378 No. 52/08.08.2019 Elucidation of reaction mechanisms in the presence of photocatalysts embedded in polymer supports and improvement of the photocatalysts efficiency.

Other relevant information

- Foreign languages: English, French;
- Knowledge to independently use the large majority of the equipment necessary for the thoroughly characterization of materials: NMR, FTIR, UV-Vis, Fluorescence, TEM;
- Training courses for operating the Bruker Nanostar U-SAXS equipment for non-destructive X-ray analyses at small angles;
- Member of the Chemical Society of Romania.

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