Adrian-Ioan Dudu

Date of birth: 09/07/1993

Place of birth: Alba Iulia, Romania

Nationality: Romanian

Gender: Male

CONTACT

Arany Janos 11,
400028 Cluj Napoca, Romania
(Work)

adrian.dudu@ubbcluj.ro

(+40) 726144925

europass

WORK EXPERIENCE

Babes-Bolyai University Cluj Napoca, Romania

University teaching assistant
26/02/2024 – Current

Babes-Bolyai University Cluj Napoca, Romania

Postdoctoral scientific researcher
07/08/2023 – Current
Postdoctoral scientific researcher in the project PNRR-ASPIRE-III-C9-2022-I8-CF 25
enzymatic synthesis and purification processes for biobased furan derivatives

Babes-Bolyai University Cluj Napoca, Romania

Postdoctoral scientific researcher
01/03/2025 – Current
Postdoctoral scientific researcher on project PN-IV-P7-7.1-PED-2024-0091 (15PED
Analysis Methods using optical emission spectrometry- based microplasma for fo
analysis

Babes-Bolyai University Cluj Napoca, Romania

Chemist
15/10/2021 – 26/02/2024

Babes-Bolyai University Cluj Napoca, Romania

University teaching assistant
01/03/2019 – 01/07/2019

Babes-Bolyai University Cluj Napoca, Romania

Chemical engineer
01/09/2021 – 01/11/2022
Chemical Engineer on the project PN-III-P2-2.1-PED-2019-5031 - Biocatalysis Engi
nanoparticles-based Reactor Technology (BE-SMART)

Babes-Bolyai University Cluj Napoca, Romania

University teaching assistant
21/02/2022 – 01/07/2022

Babes-Bolyai University Cluj Napoca, Romania

University teaching assistant
27/02/2023 – 01/07/2023

S.C. Terapia SA Cluj Napoca, Romania

Chemical engineer
04/07/2017 – 15/09/2018

EDUCATION AND TRAINING

01/10/2018 – 14/06/2022 Cluj Napoca, Romania

Doctor in Chemistry Babes-Bolyai University

Level in EQF EQF level 8

01/10/2016 – 01/07/2018 Cluj Napoca, Romania

Master of Sciences in Chemical Engineering Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering

Level in EQF EQF level 7

01/10/2012 – 01/07/2016 Cluj Napoca, Romania

Bachelor's degree in Chemical Engineering Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering

Level in EQF EQF level 6

LANGUAGE SKILLS

MOTHER TONGUE(S): Romanian

Other language(s):

English

Listening C1	**Reading** C1
Spoken production C1	**Spoken interaction** C1
Writing C1	

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

SKILLS

Microsoft Office | Microsoft Word | Microsoft Excel | Microsoft Powerpoint | Outlook | Zoom | LinkedIn | Skype | Team-work oriented | Organizational and planning skills | Organizational and planning skills | Written and Verbal skills | Decision-making | Motivated

CONFERENCES AND SEMINARS

11/11/2019 – 14/11/2019 Timisoara, Romania

National Conference of Doctoral Schools from UNIVERSITARIA Consortium

Oral presentation
IMOBILIZAREA LIPAZEI B DIN *CANDIDA ANTARCTICA* ÎN SOL-GEL PENTRU APLICAȚII INDUSTRIALE
Adrian-Ioan Dudu, Monica Ioana Toșa

04/06/2021 – 05/06/2021 Cluj Napoca, Romania (Online)

Young Researchers' International Conference on Chemistry and Chemical Engineering

Oral presentation
Biocatalytic synthesis of short-chain flavor esters in a solvent-free system
Adrian-Ioan Dudu, Mihai Andrei Lăcătuș, Csaba Paizs, Laszlo Csaba Bencze, Monica-Ioana Toșa

21/06/2022 – 24/06/2022 Baile Govora, Romania

International Symposium of the Romanian Catalysis Society

Poster presentation
Enzymatic Synthesis of Aroma Esters: Process optimization Through Factorial Design Experiments
Adrian-Ioan Dudu, László Csaba Bencze, Csaba Paizs, Monica Ioana Toșa

27/05/2025 – 30/05/2025 Jasna, Demanovska Dolina, Slovakia

International Conference of the Slovak Society of Chemistry and Chemical Engineering

Poster presentation
Optimization of reaction parameters by factorial design for the enzymatic synthesis of natural aroma esters

Adrian-Ioan Dudu, Csaba Paizs, Monica Ioana Tosa

27/05/2025 – 30/05/2025 Jasna, Demanovska Dolina, Slovakia

International Conference of the Slovak Society of Chemistry and Chemical Engineering

Poster presentation
Green and white method for the determination of selected essential and toxic elements in vegetable and meat-based samples by small-sized electrothermal vaportization capacitivily coupled microplasma optical emission spectrometry and combustion-assisted digestion
Eniko Covaci, Augustin Mot, Adrian-Ioan Dudu, Tiberiu Frentiu

27/05/2025 – 30/05/2025 Jasna, Demanovska Dolina, Slovakia

International Conference of the Slovak Society of Chemistry and Chemical Engineering

Poster presentation
Limit of detection for Se, Zn, Cu, Cd, Pb, Hg and As determination by white small-sized electrothermal vaporization capacitively coupled microplasma optical emission spectrometry and sample combustion compared to inductively coupled plasma optical emission spectrometry
Adrian-Ioan Dudu, Eniko Covaci, Augustin Mot, Tiberiu Frentiu

27/05/2025 – 30/05/2025 Jasna, Demanovska Dolina, Slovakia

International Conference of the Slovak Society of Chemistry and Chemical Engineering

Oral presentation
Green analytical strategies for selenium determination using chromatographic and spectrometric methods
Augustin Mot, Eniko Covaci, Bogdan Bosca, Adrian-Ioan Dudu, Tiberiu Frentiu

09/07/2025 – 11/07/2025 Cluj Napoca, Romania

International Symposium of the Romanian Catalysis Society

Poster presentation
Central composite model for parameters optimization in the enzyme catalyzed esterification
Adrian-Ioan Dudu, Csaba Paizs, Monica Ioana Tosa

09/07/2025 – 11/07/2025 Cluj Napoca, Romania

International Symposium of the Romanian Catalysis Society

Poster presentation
Amino- and epoxy- decorated resin-based EDTADa-Co^{2+} chelate complexes for enzyme immobilization
Melinda Laszlo, Bartha-Vari Hajnal, Adrian-Ioan Dudu, Gabriel Katona, Csaba Paizs, Laszlo Poppe

DRIVING LICENCE

Driving Licence: B

PUBLICATIONS

2020

Solvent-free biocatalytic synthesis of 2,5-bis-(hydroxymethyl) furan fatty acid diesters from renewable resources

2021

Green process for the enzymatic synthesis of aroma compounds mediated by lipases entrapped in tailored sol-gel matrices

2021

Eco-friendly enzymatic synthesis of anisyl propionate mediated by lipase B from Candida antarctica

2022

- Deep eutectic solvents-a new additive in the encapsulation of lipase B from Candida antarctica: biocatalytic applications

2023

- Entrapment of lipase B from Candida antarctica in tailored sol-gel matrices for the synthesis of benzyl decanoate-importance of using an additive

2024

- Optimization of reaction parameters for the synthesis of natural aroma esters by factorial design

2025

- High-resolution continuum source quartz tube atomic absorbtion spectrometry for the determination of As, Sb, Bi, Hg, Se and Te in food and environmental matrices after chemical vapor generation

2025

- Towards circular economy: Agro-industrial by-products enabling in-situ enzyme production for food and pharmaceutical applications