PERSONAL INFORMATION

Levente Csaba NAGY

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Gender: Male | Citizenship: Romanian

WORK EXPERIENCE

October 2014 – present

Lecturer

Babeș-Bolyai University

Faculty of Chemistry and Chemical Engineering

Department of Chemistry and Chemical Engineering, Hungarian Line of Study

October 2007 – 2014

Research Assistant

Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering

October 2009 – September 2012

Postdoctoral researcher

Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering

EDUCATION AND TRAINING

2002 – 2007 EQF – 7

Postgraduate studies in applied computer science and programming

Technical University of Cluj-Napoca

2002 – 2007 EQF – 8

PhD in Chemistry

Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering

2001 – 2002 EQF – 7

Master of Science in Advanced Organic Chemistry

Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering

1997 – 2001 EQF – 6

Bachelor of Science in Chemistry

Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering

1993 – 1997

Baccalaureate Degree / High school diploma

„Andrei Mureșanu" National College – Dej

PERSONAL SKILLS AND COMPETENCES

Mother tongue(s): Hungarian

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B1	B1	B1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills
- supervision of research work

Organizational / managerial skills
- organization of scientific events (workshop, conference), member in organizing committee
- project management, member in 15 research grants

Research
- molecular modeling, protein-ligand docking.
- chemical graph theory, molecular topology.
- carbon nanostructures: multiterminal nanotube junctions, onion fullerenes, hetero fullerenes.

Teaching experience
- CLM2014 – Computer assisted technical drawing (BSc)
- CLM2044 – Applied computer programming in engineering (BSc)
- CLM2034 – System theory (BSc)
- CLM2169 – Chemical process simulators (BSc)
- CLM2061 – Elements of chemical reaction engineering (BSc)
- CMM8213 – Carbon nanomaterials and nanostructures (MSc)
- CMM8245 – Biomaterials design (MSc)

Computer skills
- computational chemistry: Gaussian 16, HyperChem 8, Mopac
- structural bioinformatics: PyMOL, Autodock Vina, Yasara, SWISS-MODEL
- chemical engineering: MATLAB, ChemCAD, SolidEdge, GNU Octave
- programming skills in C#, PHP, HTML, CSS, MySQL
- operating systems skills: Microsoft Windows (XP, 7, 10), CentOS 7
- additional software: Microsoft Office Suite, Origin, EndNote, MathType

ADDITIONAL INFORMATION

Researcher identifiers
- Researcher ID G-3594-2011
- Scopus ID 7003677314
- ORCID 0000-0002-6356-6349
- Google Scholar O0_L7A4AAAAJ
- ResearchGate Csaba-Nagy-4

Publications
- 32 scientific papers published in journals indexed by Web of Science (WoS)
- author of 6 book chapters published by Springer Publishing Company
- co-editor of 1 book published by the Springer Publishing Company
- co-author of 1 book published by the Springer Publishing Company

Research stages
2012 – National Institute of Chemistry Ljubljana, Slovenia
2013 – workshop: Topological methods in crystal chemistry and materials science, CECAM-HQ-EPFL, Lausanne
2014 – University of Szeged, Department of Chemical Informatics, Hungary (Domus scholarship)

Conferences
Participated at 23 international conferences: 9 oral lectures, 1 invited lecture

Memberships
Hungarian Academy of Sciences – external member since 2013
European Society of Mathematical Chemistry (since 2008)

Research grants
Member in 12 national research projects
Member in 3 European research projects
Project leader in 2 national grants

Awards
2013 - The Academic Committee of the Hungarian Academy of Cluj - József Teleki Young Scientist Award in the field of natural sciences

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Research grants

1. RAtional REdesign of Phenylalanine Ammonia-Lyases for reversing their natural selectivity (RARE-PAL). *member*
   Grant ID: PN-III-P1-1.1-TE-2019-2019-2118, TE95/2020; duration: sept. 2020–sept. 2022
   Project leader: Lect. Dr. Csaba László BENCZE, Babeș-Bolyai University
2. Nanoscale enzyme immobilization and microfluidics for systems biocatalysis (NEMSyB). Competitiveness Operational Programme 2014-2020, ANCSI ID P_37_273, codSMIS 103413, 25/01.09.2016, 2016–2020 *advertising manager*.
   Project leader: Prof. dr. POPPE László, BME, Hungary
3. Self-navigated integrin receptors seeking “thermally-smart” multifunctional few-layer graphene-encapsulated magnetic nanoparticles for molecular MRI-guided anticancer treatments in “real time” personalized nanomedicine (GEMNS). UEFISCDI PNIII ERA-Net, 2015–2019, *member*. Project coordinator: Prof. dr. Ireneusz P. Grudzinski, Medical University of Warsaw, Poland.
4. Mio-enzyme kit with defined and extended substrate domain. UEFISCDI PN-II-RU-TE-2014-4-1668, 2015–2017, *member*. Project leader: Lect. Dr. Csaba László BENCZE, Babeş-Bolyai University
5. Stabilization of fullerenes by transforming structural fragments. Babes-Bolyai University, GTC-34050, 2013–2014, *project leader*.
6. Dendrimer-carbon nanostructure conjugates as drug delivery support. PNII IDEI ID nr. 0346, 2011–2015, *member*. Project leader: Prof. Dr. Mircea V. DIUDEA, Babeş-Bolyai University
7. DFT study of aromatic stabilization in simple and heterofullerenes. POSDRU/89/1.5/S/60189, *project leader*.
8. The gene therapy conditioned by nanotechnology in hepatocarcinoma (NANOGEN). PNCDI II, Parteneriate în domeniile prioritare, nr. 42114/01.10.2008, 2008–2011, *member*. Project coordinator: As. Dr. Florin GRAUR, University of Medicine and Pharmacy “Iuliu Hatieganu” Cluj-Napoca
9. Molecular modeling and topological characterization of highly organized nanostructures using counting polynomials (POLYNANO). PNCDI II, Capacităţi, Modul III, proiect bilateral România-Slovenia, nr. 407/03.05.10, 2010–2011, *member*. Project leader: Prof. Dr. Mircea V. DIUDEA, Babeş-Bolyai University
10. Biofunctional nanoparticles for development of new methods of imaging, sensing, diagnostic and therapy in biological environment (NANOBIOFUN). PNCDI II, IDEI, Proiecte complexe de cercetare exploratorie, cod PCCE_129/2008, 2010–2013, *member*. prof. Project coordinator: Prof. dr. Simion Astilean, Babeş-Bolyai University
11. Modeling of carbon nanostructures and their properties (NANOMOD). PNCDI II, Capacitati, Modul III, proiect bilateral România-Slovenia, nr. 26/09.06.2008, 2008–2009, *member*. Project leader: Prof. Dr. Mircea V. DIUDEA, BABEŞ-BOLYAI UNIVERSITY
12. Modeling carbon nanostructures and their functionalized derivatives. PNCDI II, IDEI, cod ID_506, nr. 308/2007, 2007–2010, *member*. Project leader: Prof. Dr. Mircea V. DIUDEA, Babeş-Bolyai University
13. Development of a laboratory for the synthesis, analysis, and testing of carbon nanostructures, functionalized and composites (NANOLAB). PNCDI II, Capacitati, Modul I, nr. 113/2007, 2007–2009, *member*. Project leader: Prof. Dr. Mircea V. DIUDEA, Babeş-Bolyai University
14. 20 years of molecular topology at Cluj (TOPMOL). CEEX 2/14.02.2005, 2005–2006, *member*. Project leader: Prof. Dr. Mircea V. DIUDEA, Babeş-Bolyai University
15. Graph theory as a tool in modeling of molecules and chemical reactions (CHEMMOD). CEEX 233/2006, 2006–2008, *member*. Project leader: Prof. Dr. Mircea V. DIUDEA, Babeş-Bolyai University
16. Development of new database exploration algorithms and advanced models usable for the design of bioactive compounds. (ALDAT). CERES nr. 4-108, 2004–2006, *member*. Project leader: Prof. Dr. Mircea V. DIUDEA, Babeş-Bolyai University

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