Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Dr. FÜSTÖS (married LÁSZLÓ) MELINDA-EMESE**
E-mail	melinda.fustos@yahoo.com, melindaf@chem.ubbcluj.ro
Nationality	Romanian, Hungarian

Education

Period	**2010-2014**
Degree / Diploma	Ph. D in *Chemistry*
Institution	Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Arany János street 11, Cluj-Napoca, Romania PhD Thesis: *Biofunctionalization of carbon nanostructures*
Period	**2008-2010**
Degree / Diploma	Master's Degree in *Modern Techniques in Chemical Synthesis*
Institution	Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Arany János street 11, Cluj-Napoca, Romania
Period	**2004-2008**
Degree / Diploma	Bachelor's Degree in *Chemistry*
Institution	Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Arany János street 11, Cluj-Napoca, Romania

Professional experience

Period	**2018-ongoing**
Position held	*Assistant Professor*
Name and address of employer	Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Department of Chemistry and Chemical Engineering, Hungarian Line of Study, Arany János street 11, Cluj-Napoca, Romania
Type of business or sector	Education
Activities	Teaching and research

Period	**2009-ongoing**
Position held	*Research Assistant*
Name and address of employer	Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Arany János street 11, Cluj-Napoca, Romania
Type of business or sector	Research
Activities	Synthesis and functionalization of carbon nanostructures (carbon nanotubes, fullerenes, dendrimers); immobilization of enzymes and activity testing; obtaining polymer nanowire matrices *via* electrospinning technique. Member of research projects: • PNCDI II, contract nr.ID_PCCE_129/2008, NANOBIOFUN • PNCDI II, contract nr. 72152/2008, BIOPLAST • PNCDI II, contract nr. 92080/2008, NANOGEN • PN-II-ID-PCE-2011-3-0346, Dendrimer-carbon nanostructure conjugates as drug delivery support • POC-A1-A1.1.4-E-2015, P_37_273, nr. contract 25/ 1.09.2016, NEMSyB

Personal skills and competences

Mother tongue	Hungarian
Other languages	**Romanian, English, Spanish**
Social skills and competences	I am a sociable person, cooperative and responsible. I have good communication and interaction skills. I have proved good capabilities for working in any team and I integrate easily in a group. I am a motivated and a hard working person.
Organizational skills and competences	I am a person who knows to set and achieve objectives. I have a good capacity to adapt and work in a team with the task distribution between team members.
Technical skills and competences	- Organic chemical synthesis - Microwave assisted chemical synthesis - TEM-, NMR-, Raman-, elemental- , UV-Vis and HPLC analysis - Electrospinning technique

Computer skills and competences	- Microsoft Office application (word, excel, powerpoint), OPUS, ChemOffice, ChemDraw, ChemSketch, Origin - Molecular modeling calculation with Spartan, Hyperchem
Specialization	- **02/2012-08/2012** Research stage at *Institute for Solid State Physics and Optics-Wigner Research Centre for Physics of the Hungarian Academy of Sciences, Budapest, Hungary* under adviser of Prof. Dr. Kamarás Katalin - supercritical CO_2 filling techniques of carbon nanotubes - Raman analysis of carbon nanostructures
Research interests	Organic chemistry, microwave-assisted synthesis, modification functionalization of carbon nanostructures (nanotubes, fullerenes), synthesis and characterization of dendrimers, immobilization of enzymes.
Other relevant information	Researcher ID: J-9168-2015 Scientific articles: 9 H-index: 4
Appendix	List of publications

Appendix

List of publications

1. **M. E. Füstös**, E. Tasnádi, G. Katona, M. V. Diudea, Functionalization of carbon nanotubes, *Studia Universitatis Babeş-Bolyai Chemia,* **2010**, *LV (4),* 153-159.

2. B. Botka, **M. E. Füstös**, G. Klupp, D. Kocsis, E. Székely, M. Utczás, B. Simándi, Á. Botos, R. Hackl, K. Kamarás, Low-temperature encapsulation of coronene in carbon nanotubes, *Physica Status Solidi (B),* **2012***, 249(12),* 2432-2435.

3. B. Botka, **M. E. Füstös**, H. M. Tóháti, K. Németh, G. Klupp, Z. Szekrényes, D. Kocsis, M. Utczás, E. Székely, T. Váczi, G. Tarczay, R. Hackl, T. W. Chamberlain, A. N. Khlobystov, K. Kamarás, Interactions and Chemical Transformations of Coronene Inside and Outside Carbon Nanotubes, *Small*, **2014,** *10(7)*, 1369-1378.

4. L. Maggini, **M. E. Füstös**, T. W. Chamberlain, C. Cebrián, M. Natali, M. Pietraszkiewicz, O. Pietraszkiewicz, E. Székely, K. Kamarás, L. De Cola, A. N. Khlobystov, D. Bonifazi, Fullerene-driven encapsulation of a luminescent Eu(III) complex in carbon nanotubes, *Nanoscale*, **2014**, *6(5),* 2887-2894.

5. A. Varga, M. A. Naghi, **M. E. Füstös**, G. Katona, V. Zaharia, Heterocycles 35. CaL-B mediated synthesis of enantiomerically pure (R)- and (S)-ethyl 3-(2-arylthiazol-4-yl)-3-hydroxypropanoates, *Tetrahedron: Asymmetry*, **2014**, 25(4), 298-304**.**

6. **M. E. Füstös**, T. A. Sipos, M. V. Diudea, G. Katona, Synthesis of novel aromatic core zero generation dendrimers, *Croatica Chemica Acta*, **2015**, 88 (2), 129-132.

7. **M. E. Füstös**, M. V. Diudea, G. Katona, Catalytic reduction of 4-nitrophenol using new Cu(0)/aromatic core dendrimer complexes, *Studia UBB Chemia*, **2016**, LXI, 1, 43-50.

8. T. A. Dull-Szabó, **M. E. Füstös**, M. Suciu, G. Katona, Synthesis and characterization of derivatized carbon nanostructures, *Studia UBB Chemia*, **2017**, LXII, 2, Tom II, 223-232.

9. C. N. Lungu, C. Paizs, **M. E. Füstös**, A. Orza, M. V. Diudea, I. P. Grudzinski, A predictive toxicity study of PEIs, PAMAM and ZAC dendrimers, *Studia UBB Chemia*, **2019,** LXIV, 2, Tom II, 499-508.