



Farkas Noémi-Izabella

WORK EXPERIENCE

2021 - 2023

SCIENTIFIC RESEARCH ASSISTANT

Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University of Cluj-Napoca, Cluj-Napoca, Romania Research project: Swarm intelligence of independent artificially active particles, PN-III-P4-ID-PCE-2020-1301

EDUCATION AND TRAINING

2020 - CURRENT Cluj-Napoca, Romania

PhD STUDENT Doctoral School of Chemical Engineering, Babes-Bolyai University

2018 – 2020 Cluj Napoca, Romania

MASTER'S DEGREE Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University

Thesis Investigation of the release of anti-inflammatory agents from hydroxyapatite-based nanocomposites in SBF

2014 - 2018 Cluj- Napoca, Romania

BACHELOR DEGREE Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University

Thesis Investigation of the release of anti-inflammatory agents from hydroxyapatite-based nanocomposites in SBF

2010 - 2014 Sfantu Gheorghe, Romania

HIGH SCHOOL DIPLOMA Szekely Miko College

LANGUAGE SKILLS

Mother tongue(s): **HUNGARIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production Spoken interaction		
ENGLISH	B2	C1	B2	B2	C1
ROMANIAN	C1	C1	C1	C1	C1

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

ADDITIONAL INFORMATION

PUBLICATIONS

Adsorption and desorption behavior of natural and synthetic active compounds on hydroxyapatite-based nanocomposites

-2021

Barábas R., Farkas N.-I., Nagy Cs. L., Cadar O., Moisa C., Bizo L., Ceramics International, 47(6), 8584

Hydroxyapatite and silicon-modified hydroxyapatite as drug carriers for 4-aminopyridine - 2021

Marincas L., Turdean G.L., Tosa M., Kovács Zs., Kovács B., Bizo L., Barabás R., Farkas N.-I., Crystals, 11, 1124

Preparation and characterization of doxycycline loaded electrospun PLA/HAP nanofibers as a drug delivery system

-2022

Farkas N.-I., Marincas L., Barabás R., Bizo L., Ilea A., Turdean G.L., Toşa M., Cadar O., Barbu-Tudoran L, Materials, 15, 2105

In vitro antimicrobial effect of novel electrospun polylactic acid/hydroxyapatite nanofibres loaded with doxycycline

- 2022

Andrei V., Fit N. I., Matei I., Barabás R., Bizo L.A., Cadar O., Bosca B.A., Farkas N.-I., Marincaş L., Muntean D.-M., Dinte E., Materials, 15, 6225

Deep eutectic solvent PCL-based nanofibers as drug delivery system - 2023

Marincas L., Farkas N.-I., Barbu-Tudoran L., Barabás R., Toşa M., Materials Chemistry and Physics, 304, 127862

The effect of chemical composition and morphology on the drug delivery properties of hydroxyapatite-based biomaterial

-2023

Farkas N.-I., Turdean G.L., Bizo L., Marincas L., Cadar O., Barbu-Tudoran L., Barabás R., Ceramics International, 49, 15, 25156

Investigation of the real-time release of Doxycycline from PLA-based nanofibers - 2023

Farkas N.-I., Marincas L., Barbu-Tudoran L., Barabás R., Turdean G.L., Journal of Functional Biomaterials, 14,6,331

Release of amoxicillin and doxycycline from PLA nanofibers optimized using factorial experimental design
Farkas N.-I., Barabás R., Resz M.-A., Becze A., Marincas L., Veszi A., Boşca B. A., Dinte E., Feurdean C. N., Uriciuc A., Babtan
A.M., Ilea A., Cadar O., Bizo L., Applied Physics A, 129, 854

Synthesys and characterization of silver-doped hydroxyapatite - 2023

Petkes R., Farkas N.-I., Marincas L., Bartha-Vári J.-H., Barabás R., Studia Universitatis Babes-Bolyai, Chemia, 68, 4, 27

PROJECTS

Biotechnology for a novel biomimetic composite hydrogel based on extracellular matrix components and small molecule-enriched Si-bioceramics PN-III-P2-2.1-PED-2019-1714

Customized intelligent matrices for tissue regeneration and metainlamation control (PRIM-TISS) PN-III-P2-2.1-PED-2019-3664

CONFERENCES/ ORAL OR POSTER PRESENTATIONS

Adsorption and desorption of anthocyanin extract on hydroxyapatite and various hydroxyapatite composites

Farkas N.-I., Barabás R., Scientific Conference of Students from Transylvania, 2018, Clui-Napoca, Romania

Preparation of hydroxyapatite and nanohydroxyapatite composites, investigation of adsorption and desorption properties with anthocyanin extract

Farkas N.-I., Barabás R., 18th Transylvanian Conference of Natural Science, 2018, Cluj-Napoca, Romania

Adsorption and desorption of anthocyanin extract on hydroxyapatite and various hydroxyapatite composites

Farkas N.-I., Barabás R.,34th National Student Conference, 2019, Budapest, Hungary

Effect of carbon nanostructures on the adsorption and desorption properties of hydroxyapatite

Farkas N.-I., Barabás R., Scientific Conference of Students from Transylvania, 2019, Cluj-Napoca, Romania

Study of the adsorption/desorption processes of adsorptives on nano-composite differences based on hydroxyapatites

Farkas N.-I., Barabás R., 19th Transylvanian Conference of Natural Science, 2019, Cluj-Napoca, Romania

Investigation of the adsorption/desorption properties of hydroxyapatite and hydroxyapatite- based composites with different adsorbates

Farkas N.-I., Barabás R., 25th International Conference on Chemistry, 2019, Cluj-Napoca, Romania

Release study of the mixture of anthocyanin and ibuprofen from nanocomposites based on hydroxyapatite in SBF

Farkas N.-I., Barabás R., Scientific Conference of Students from Transylvania, 2020, Romania

Investigation of the in vitro release mechanism of different active substances from nano-hydroxyapatite-based nanocomposites

Farkas N.-I., Marincaş L., Barabás R, 26th International Conference on Chemistry, 2020, Romania

Effect of carbon nanostructures on the adsorption and desorption properties of hydroxyapatite

Farkas N.-I., Barabás R., 35th National Student Conference, 2021, Budapest, Hungary

Investigation of hydroxyapatite-based drug delivery systems with fampyridine

Farkas N.-I, Marincaş L., Barabás R., Turdean G.L., 27th International Conference on Chemistry, 2021, Cluj-Napoca, Romania

Characterization of hydroxyapatite-based drug delivery systems

Farkas N.-I, Marincas L., Barabás R., 21th Transylvanian Conference of Natural Science, 2021, Cluj-Napoca, Romania

Preparation of doxycycline containing nanofibers by electrospinning method

Marincaş L., Farkas N.-I., Barabás R., Toşa M. I., 27th International Conference on Chemistry, 2021, Cluj-Napoca, Romania

Preparation and investigation of polylactic acid-based carriers

Marincaş L., Farkas N.-I., Barabás R., Toşa M. I., 21th Transylvanian Conference of Natural Science, 2021, Cluj-Napoca, Romania

Investigation of silicon-doped hydroxyapatite drug carrier for different active substances

Farkas N.-I., Marincaş L., Turdean G.L., Barabás R., "Application of Chemistry in Nanosciences and Biomaterials Engineering-NanoBioMat 2021", NanoBioMat2021-winter session, 2021, Romania

Preparation of drug delivery systems from polylactic-acid-based nanofibers

Marincaş L., Farkas N.-I., Barabás R., Toşa M. I., "Application of Chemistry in Nanosciences and Biomaterials Engineering-NanoBioMat 2021", NanoBioMat2021-winter session, 2021, Romania

20/03/2024

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