Mihai Marius Rusu

Date of birth: 09/04/1990

Nationality: Romanian

CONTACT

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WORK EXPERIENCE

2022 – CURRENT Cluj-Napoca, Romania

University assistant Technical University of Cluj-Napoca, Department of Physics and Chemistry

- Hold seminars and laboratories in Physics
- Mentor students from different faculties
- Research activity in the NMR Diffusometry and Relaxometry Laboratory (https://nmr.utcluj.ro/)

EDUCATION AND TRAINING

2015 – 2022 Cluj-Napoca, Romania

PhD in Physics Babes Bolyai University

02/09/2017 – 11/09/2017 Palaiseau, France

Internship stage Ecole Polytechnique

17/11/2014 – 15/05/2015 Jena, Germany

Erasmus Internship stage Friedrich Schiller University, Faculty of Physics, Jena

2012 – 2015 Cluj, Romania

Master's degree in Solid State Physics Babes Bolyai University, Faculty of Physics

2004 – 2009 Turda, Romania

High School Diploma Mihai Viteazul National College

2008 – 2013 Cluj, Romania

Bachelor of Science Degree in Engineering Babes Bolyai University, Faculty of Physics

LANGUAGE SKILLS

MOTHER TONGUE(S): Romanian

Other language(s):

English

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

German

Listening A1	**Reading** A1

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

DIGITAL SKILLS

OriginPro 85 | FijiImageJ | Microsoft Office

JOB-RELATED SKILLS

Research and education

- Experienced in material characterization using electron microscopy, ^{1}H NMR relaxometry and other techniques such as X-ray diffraction, Raman spectroscopy and optical microscopy.
- Familiar with design of photoanodes based on mesoporous oxides for dye sensitized solar cells and device characterization
- Familiar with cementitious composites for additive manufacturing, sol-gel synthesis of porous materials and carbon nanomaterials

- Knowledge in University Physics
- Adaptability, flexibility in teaching methods
- Interpersonal skills and reflective practice

- **Interests and creative skills**:
- I practice visual arts as a hobby (illustration, photography, graphics, painting)
- interested in religion, art and science and related interdisciplinary contexts.
- interested in developing STEAM oriented skills in education.

Research activity

Number of articles published in Q_1/Q_2 journals: ***14*** *from* ***19***
Hirsch index according to Web of Science: ***5***
Number of research projects that I worked in: 5
Brainmap: https://www.brainmap.ro/rusu-mihai-marius
ORCID: *https://orcid.org/0000-0002-6760-7320*

Most relevant Publications:

[1] **M. M. Rusu**, R. A. Wahyuono, C. I. Fort, A. Dellith, J. Dellith, A. Ignaszak, A. Vulpoi, V. Danciu, B. Dietzek, L. Baia, *J Solgel Sci Technol* **2017**, *81*, DOI 10.1007/s10971-016-4237-3.
[2] **M. M. Rusu**, C. I. Fort, L. C. Cotet, A. Vulpoi, M. Todea, G. L. Turdean, V. Danciu, I. C. Popescu, L. Baia, *Sens Actuators B Chem* **2018**, *268*, DOI 10.1016/j.snb.2018.04.103.
[3] **M. M. Rusu**, A. Vulpoi, I. Maurin, L. C. Cotet, L. C. Pop, C. I. Fort, M. Baia, L. Baia, I. Florea, *Microscopy and Microanalysis* **2022**, *28*, 317.
[4] **M. M. Rusu**, C. I. Fort, A. Vulpoi, L. Barbu-Tudoran, M. Baia, L. C. Cotet, L. Baia, *Gels* **2023**, *9*, 868.
[5] **M. M. Rusu**, A. Vulpoi, C. Vilau, C. M. Dudescu, P. Păşcuţă, I. Ardelean, *Materials* **2022**, *16*, 371.
[6] **M. M. Rusu**, D. Faux, I. Ardelean, *Molecules* **2023**, *28*, DOI 10.3390/molecules28020476.