

CURRICULUM VITAE

Name **Emőke ALBERT, PhD**
assistant professor
e-mail: emokealbert@mail.bme.hu

Affiliation

Budapest University of Technology and Economics, Faculty of Chemical Technology and Biotechnology, Department of Physical Chemistry and Materials Science, Centre for Colloid Chemistry, H-1521 Budapest, Hungary

Nationality

Hungarian

Education

- 2012 – 2015: PhD student, Oláh György Doctoral School, Budapest University of Technology and Economics, Faculty of Chemical Technology and Biotechnology, Budapest, Hungary
2016: PhD in chemistry (*summa cum laude*)
University: Budapest University of Technology and Economics
PhD registration number 2698-PhD
Title of the PhD dissertation: Mesoporous sol-gel coatings: preparation, characterization, application (in Hungarian)
- 2008 – 2009: **MSc in chemistry**, Babeş – Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj–Napoca, Romania
- 2004 – 2008: **BSc in chemistry**, Babeş – Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj – Napoca, Romania

Employment

Budapest University of Technology and Economics, Faculty of Chemical Technology and Biotechnology, Department of Physical Chemistry and Materials Science, Centre for Colloid Chemistry

- assistant professor (1st June 2017 –)
- assistant lecturer (1st April 2016 – 31st May 2017)
- assistant research fellow (1st September 2015 – 31st March 2016)
- assistant research fellow, part-time (1st February 2014 – 31st December 2014)
- technical assistant, part-time (1st October 2012 – 31st December 2013)
- assistant research fellow, part-time (1st September 2012 – 30th September 2012)
- assistant research fellow (1st October 2009 – 31st August 2012)

Knowledge of languages

- Hungarian: native
- English: intermediate (ECL Level B2, complex, Certificate No: P6-073029) (2011)
- Romanian: advanced (ECL Level C1, complex, Certificate No: P6-096632) (2013)

Scholarships

- Ernő Pungor award for PhD candidates, Budapest University of Technology and Economics, Faculty of Chemical Technology and Biotechnology (1st September 2015 – 31st January 2016)
- Géza Schay award Budapest University of Technology and Economics, Faculty of Chemical Technology and Biotechnology (2015)
- Participation in Baku World Forum of Young Scientists on behalf of the Hungarian technological sciences, (26 – 31 May 2014)

- Apáczai Csere János Scholarship for PhD students (supported by the European Union and the State of Hungary, co-financed by the European Social Fund in the framework of TÁMOP-4.2.4.A/ 2-11/1-2012-0001 National Excellence Program (1st October 2013 – 30th September 2014)
- 10th Scientific Conference of Transylvanian Students, 2nd prize (2007)

Role in scientific community

- Member of public body of Hungarian Academy of Sciences (2017 –)
- Substitute Member of the Management Committee, CMST COST Action CM 1403: *The European upconversion network - from the design of photon-upconverting nanomaterials to biomedical applications* (2017 –)
- Member, Hungarian Natural Science Society, Commission of Chemistry (2015 –)
- Member, Commission of Colloid Chemistry of the Hungarian Academy of Sciences (2013 –)
- Member, Commission of Colloid Chemistry and Nanotechnology of the Hungarian Chemical Society (2011 –)

Participation in research projects

- Project funded under the Call for research projects based on Hungarian–Thai international cooperation TNN_16, (123631, *Application of oxide and carbon nanostructure based nanofluids in energy and thermal systems*, 1st January 2018 – 31st December 2020)
- HORIZON 2020-SMEINST-2-2014 project (Optilight, 683541, *Increasing the efficiency of LED street lighting by 15% via optical design*, 1st September 2015 – 31st August 2017)
- R+D Contracts of Competitiveness and Excellence project (VKSZ-12-1-2013-0080, *Medical technology research and development on the effective healing of cataract*, 1st February 2014 – 31st December 2014)
- Hungarian–Romanian Bilateral Co-operation (SOLGELCOR, TÉT_12_RO-1-2013-0011, *Functional sol-gel coatings on metal surfaces: preparation and characterization*, 1st March 2013 – 30th November 2014)
- Hungarian-French Bilateral Co-operation (PHONOSEL, TÉT_11-2-2012-0008, *Photoactivity of noble metal particles assisted semiconductor layers: preparation and characterization*, 1st November 2012 – 31st October 2013)
- Hungarian Scientific Research Fund project (OTKA-A 78629, *Preparation and characterization of inorganic coatings with controlled pore structure*, 1st October 2009 – 31st August 2012)

Conference organizing committees

- *Scientific Symposium for the 145th anniversary of the foundation of BME Faculty of Chemical Technology and Biotechnology*, member of the Organizing Committee, Budapest, Hungary (1st June 2018)
- *11th Conference on Colloid Chemistry*, member of the Organizing Committee, Eger, Hungary (28 – 30 May 2018)
- *10th Conference on Colloid Chemistry*, member of the Organizing Committee, Budapest, Hungary (29 – 31 August 2012)
- *International Workshop on Functional Nanostructured Thin Films*, member of the Organizing Committee, Budapest, Hungary, Hungarian Academy of Sciences (13th December 2012)

Professional travels

- 21 – 25 May 2018: Babeş – Bolyai University, Cluj-Napoca, Romania, ERASMUS teaching mobility
- 29 – 30 June 2017: participation in the 2nd *General Meeting of The European Upconversion Network (COST CM1403)* Aveiro, Portugal
- 6 – 12 June 2017: Babeş – Bolyai University, Cluj-Napoca, Romania, ERASMUS teaching mobility
- 22 – 28 June 2014: Babeş – Bolyai University, Cluj-Napoca, Romania, ERASMUS teaching mobility
- 15 – 21 June 2014: Babeş – Bolyai University, Cluj-Napoca, Romania, in the frame of Hungarian–Romanian Bilateral Co-operation (SOLGELCOR TÉT_12_RO-1-2013-0011)
- 26 – 31 May 2014: participation in *Baku World Forum of Young Scientists* on behalf of the Hungarian technological sciences, Baku, Azerbaijan

- 8 – 21 November 2013: Babeş – Bolyai University, Cluj-Napoca, Romania, in the frame of Hungarian–Romanian Bilateral Co-operation (SOLGELCOR TÉT_12_RO-1-2013-0011)
- 23 – 28 September 2013: University of Paris-Sud, Paris, France, in the frame of Hungarian-French Bilateral Co-operation (PHONOSEL, TÉT_11-2-2012-0008)
- 1 – 8 June 2013: Montpellier II University and European Membrane Institute, in the frame of Hungarian-French Bilateral Co-operation (PHONOSEL, TÉT_11-2-2012-0008)
- 19 – 23 March 2012: Babeş – Bolyai University, Cluj-Napoca, Romania
- 12 – 15 April 2011: *COST Action D43 Training School: Fluids and Solid Interfaces*, Sofia, Bulgaria
- 12 – 18 September 2010: Babeş – Bolyai University, Cluj-Napoca, Romania, ERASMUS teaching mobility

Referee activity:

- 2 MSc Thesis (2017, 2018), 1 BSc Thesis (2016), 1 Thesis of Scientific Conference for Students (2016), 4 Projection Tasks (2014, 2016, 2017), international scientific papers
- 21st Transylvanian Students' Scientific Conference, member of the Referee Committee of the Analytical, physical and inorganic chemistry section, Cluj-Napoca, Romania (24 – 27 May 2018)


Educational experiences (Budapest University of Technology and Economics, Faculty of Chemical Technology and Biotechnology)

- Supervisor of 9 individual works, 1 independent work, 3 BSc Theses and 1 MSc Thesis
- Consultant of 12 MSc Theses, 25 BSc Theses and 2 Theses of Scientific Conference for Students
- Consultant of numerous independent and individual works
- Instructor for the following laboratory practical courses:
 - *Colloid chemistry V* (2009, 2010)
 - *Non-conventional materials* (2010, 2011, 2012)
 - *Material sciences* (2011, 2013, 2014)
 - *Testing methods in material sciences* (2014, 2018)
 - *Chemistry for physicist student* (2010, 2011, 2012)
 - *Physical Chemistry* (2011, 2012, 2013)
- Participation in the education of *Colloid Chemical Principles of Nanotechnology* course (2012, 2013, 2014, 2016), lecturer of the course (2017 –) (in English)
- Participation in the education of *Colloid Chemical Principles of Nanotechnology* course (2014, 2015), lecturer of the course (2016 –) (in Hungarian)

Scientometric data:

- Number of papers: 19 (12 in peer-reviewed international and 7 in Hungarian journals/books)
- Cumulative impact factor: 22.930
- Number of independent citations: 50
- Number of citations: 74
- Hirsch index: 5
- Conference presentations: 74 (54 oral and 20 poster)
- The detailed publication activity is available at:
<https://vm.mtmt.hu//search/slist.php?lang=0&AuthorID=10042656>

Budapest, 10th September 2018


 Emőke Albert, PhD