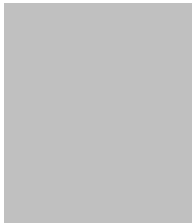








PERSONAL INFORMATION

Norbert Thomas Muntean



-  Romania. Cluj-Napoca , Aleea Clabucet nr. 2
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-  norbert.muntean@ubbcluj.ro
-  [State personal website\(s\)](#)
-  [Replace with type of IM service](#) Replace with messaging account(s)

Sex Male | Date of birth 10/30/1981 | Nationality Romanian

WORK EXPERIENCE

- 2016.02.27-present **Lecturer**
 ‘Babes-Bolyai’ University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

 - Teaching and research activity in the field of analytical chemistry and instrumental analysis

[Business or sector](#) Higher education and research
- 2014.05-2014.08 **Researcher**
 Budapest University of Technology,

 - Determination of antioxidant activity, testing antioxidant capacity by means of Briggs-Rauscher reaction

[Business or sector](#) Higher education and research
- 2013.05-2013.07 **Researcher**
 Budapest University of Technology ,

 - Determination of antioxidant activity, testing antioxidant capacity by means of Briggs-Rauscher reaction

[Business or sector](#) Higher education and research
- 2011.09-2013.03 **Postdoctoral researcher**
 ‘Babes-Bolyai’ University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

 - Study the behavior of hydroxyapatitenano system

[Business or sector](#) Higher education and research
- 2011.01-2011.09 **Researcher**
 Budapest University of Technology

 - Measurement of hypiodous acid concentration by a novel type iodide selective electrode and a new method to prepare HOI.

[Business or sector](#) Higher education and research

EDUCATION AND TRAINING

- 2005-2008 **PhD**
 ‘Babes-Bolyai’ University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania
 PhD thesis title : "Study of oscillatory systems and analytical applications." chemical kinetics, modeling complex nonlinear systems
 Business or sector Higher education and research
- 2004-2005 **MSc in Advanced Chemical Techniques**
 ‘Babes-Bolyai’ University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania
 ▪ My diploma thesis title was “The effect of metal ions on the antioxidant activity of lipoic acid”
- 2000-2004 **Chemist, BSC**
 ‘Babes-Bolyai’ University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania
 ▪ My diploma thesis title was “Simulation of oscillating chemical reactions”

PERSONAL SKILLS

Mother tongue(s) Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Romanian	C1	C1	B1	B1	B1
	Replace with name of language certificate. Enter level if known.				
English	B1	C1	B1	B1	B2
	Replace with name of language certificate. Enter level if known.				

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

Communication skills ▪ good communication skills, easy filing in group and taking part in teamwork

Organisational / managerial skills

▪ good organization ability

Job-related skills

- general laboratory applications
- knowledge of atomic spectrometric . voltammetry determination
- having fundamental understanding of mass spectrometry and chromatographic analysis
- teaching skills
- since 2018 I guided 15 students to develop their bachelor`s/ master`s thesis

Computer skills

▪ excellent computer skills particularly with Microsoft Office™ , Wolfram Mathematica, Minitab, Origin

Other skills ▪ strong attention to detail

Driving licence -

ADDITIONAL INFORMATION

Publications

- **Norbert Muntean**, Gabriella Szabó, Maria Wittmann, Thuy Lawson, János Fülöp, Zoltán Noszticzius, Lavinia Onel: **Reaction Routes Leading to CO₂ and CO in the Briggs–Rauscher Oscillator: Analogies between the Oscillatory BR and BZ Reactions**, *J. of Phys. Chem. A*, 113 (32), pp 9102-9108, 2009, IF=2.600
- Thuy Lawson, János Fülöp, Maria Wittmann, Zoltán Noszticzius, **Muntean Norbert**, Gabriella Szabó, Lavinia Onel: **Iodomalonic Acid as an “Anti” Inhibitor in the Resorcinol Inhibited Briggs-Rauscher Reaction**, *J. of Phys. Chem. A*, , 113, pp 14095-14098, 2009, IF=2.600
- **Norbert Muntean**, Ioan Bâldea, Gabriella Szabó, Zoltán Noszticzius, **Antioxidant capacity determination by the Briggs-Rauscher oscillating reaction in a flow system**, *Studia Universitatis Babeş-Bolyai LV,1*, pp.121 – 133 2010 .IF=0.494
- **Norbert Muntean**, Lawson Bich Thuy, Kristóf Kály-Kullai, Maria Wittmann, Zoltán Noszticzius, Lavinia Onel, Stanley D. Furrow: **Measurement of hypiodous acid concentration by a novel type iodide selective electrode and a new method to prepare HOI. Monitoring HOI levels in the Briggs-Rauscher oscillatory reaction** *J. Phys. Chem. A*, 116, pp 6630–6642, 2012, IF=2.600
- **Norbert Muntean** Gabriella Szabó, **Antioxidant activity of tea infusions tested by means of the Briggs-Rauscher oscillatory reaction**, *Studia UBB Chemia*, LVII, 2, pp 175 – 183, 2013 IF=0.494
- Gábor Holló, Kristóf Kály-Kullai , Thuy B. Lawson , Zoltán Noszticzius , Mária Wittmann , **Norbert Muntean** , Stanley D. Furrow , Guy Schmitz: **HOI versus HOIO Selectivity of a Molten-type AgI Electrode**, *J. Phys. Chem. A*, 118 (26), pp 4670–4679, 2014, IF=2.600
- Botond Szilágyi, **Norbert Muntean**, Réka Barabás, Oana Ponta, Béla G. Lakatos: **Reaction precipitation of amorphous calcium phosphate: population balance modelling and kinetics**, *Chemical Engineering Research and Design* Volum 93, pp. 278–286, 2015
- **Norbert Muntean** Gabriella Szabó, **Commonly Used Raw Fruit And Vegetable Juices Overall Antioxidant Activity Determination By Means Of Briggs-Rauscher Reaction** , *Studia UBB Chemia*, LX, 3, pp 273 – 282, 2015, IF=0.494
- Eugen Darvasi, Norbert Muntean, Csilla Szentkiralyi: **Simultaneous determination of Calcium and Magnesium in natural waters by methane-air flame emission and flame atomic absorption spectrometry using a microspectrometer**. *Studia Universitatis Babeş-Bolyai, Chemia Volum 61*, 2016, IF=0.494.
- Barabas Reka, Muntean Norbert, Szabo Gabriella, Maurer Krisztina, Bizo, Liliana: **Preparation and characterizations of new biomaterials by anthocyanins adsorption on hydroxyapatite-based materials**. *Studia Universitatis Babeş-Bolyai, Chemia, Volum 62*, 2017, IF=0.494.
- Holló Gábor, Kály-Kullai Kristóf, Lawson Thuy B, Noszticzius Zoltán, Wittmann Maria, Muntean Norbert, Furrow Stanley D, Schmitz Guy: **Platinum as a HOI/I₂ redox electrode and its mixed potential in the oscillatory Briggs–Rauscher reaction**, *The Journal of Physical Chemistry A Volum 121, Nr. 2 Pages 429-439*, 2017, IF=2.600

Presentation

- Csepei, L. Muntean, N. Miklósi, L. Szabó, G. Bolla, Cs.: Oscillation cessation in active Briggs-Rauscher mixture. Conferința: VII. International Conference on Chemistry EMT 2003 pag.123-124
- Szabó, G. Bolla Cs. Miklósi L. Muntean N. Csepei L. Bogya E, Study on the modifying agents of Lipoic Acid Antioxidant Activity, Conferința "X. International Conference on Chemistry EMT", 2004 pag. 201-203
- Muntean Norbert ,Szabo Gabriella, Bogya Erzsebet Sara: Study on alpha lipoic colloid system and determination of its antioxidant activity with Briggs Rauscher oscillating reaction prezentată la *9th Conference on Colloid Chemistry Siofok*, 2007 octombrie
- Muntean Norbert, Gabriella Szabó, Thuy Lawson, János Fülöp, Maria Wittmann Zoltán Noszticzus Lavinia Onel, Gelu Bourceanu: Functional role of an inhibitor: complete inhibition of CO and CO₂ evolution in the Briggs-Rauscher reaction by resorcinol, *prezentată la Second ESF FUNCDYN : Conference on Functional Dynamics*, 15 - 18 September 2008
- Norbert Muntean, Gabriella Szabó, Thuy Lawson, János Fülöp, Maria Wittmann, Zoltán Noszticzus, Lavinia Onel: IMA (iodomalonic acid) as an "anti" inhibitor in the resorcinol inhibited Briggs-Rauscher reaction, *prezentată la Third ESF FUNCDYN : Conference on Functional Dynamics*, 1 mart. 2009
- Norbert Muntean, R. Barabás, A. Borsos, B. Lakatos: Analysis of a semi-batch reactor crystallizer using the Quadrature Method of Moments *Roundtable Conference, 2012. october 26-27, Balatonszemes, Hungary*
- Norbert Muntean, R. Barabás, A. Borsos, B. Lakatos : Modeling the precipitation of amorphous calcium phosphate as precursor of hydroxyapatiteby population balance models, *CAPE forum 2013 aprilie 07-10*
- E. Sipos, B. Borbély, E.S. Bogya., Norbert Muntean, G. Szabó : The spectrophotometric characterization and antioxidant activity determination of anthocyanins extracted from hibiscus, *18th International Conference of Chemistry*, Nov. 22-25 2012, Băile Felix, România
- Muntean Norbert Darvasi Jenő, Szentkirályi Csilla : Simultaneous determination of calcium and magnesium using a CCD microspectrophotometer, *22nd International Conference on Chemistry EMT 2016*
- Szeredai Bettina Dora: Determination of caffeine content in tea by means of HPLC-MS/MS method, *21th edition of the Scientific Conference of Transylvanian Students (ETDK), Cluj Napoca, Romania, May 2018*
- Muntean Norbert Thomas, Szeredai Bettina Dora, Tötös Robert: Determination of caffeine content in tea by means of HPLC-MS/MS method, *24nd International Conference on Chemistry EMT , Sovata, Romania, November 2018*
- Muntean Norbert, Matyas Eszter, Caracterizarea apelor din Băile Leghia pe baza compzitei chimice, *25nd International Conference on Chemistry EMT Cluj Napoca Romania November 2019*
- Muntean Norbert Thomas, Szeredai Bettina Dora, Tötös Robert: Optimizing a highperformance liquid chromatography separation with Microsoft Excel *25nd International Conference on Chemistry EMT, online, Romania, October 2020*