

CURRICULUM VITAE

General information

Name: **MATACHE MIHAELA**
Address: 90 Panduri Street, District 5, 050663, Bucharest, Romania
E-mail: mihaela.matache@g.unibuc.ro
Researcher ID/ORCID: A-5597-2012/ 0000-0001-7956-7162

Education

2005-2009: **Ph.D in Chemistry at University of Bucharest**
2003-2008: **B.Sc. in Economics – Accounting, Academy of Economical Sciences, Bucharest**, Faculty of Accounting and Management Information Systems
2003-2005: **M.Sc in Environmental Quality Control, University of Bucharest**, Faculty of Chemistry
1999-2003: **B.Sc in Chemistry (in English) – Organic Chemistry, University of Bucharest**, Faculty of Chemistry

Experience

October 2015 - currently **Lecturer**, University of Bucharest, Faculty of Chemistry, Department of Organic Chemistry, Biochemistry and Catalysis
February 2005- September 2015 **Professor Assistant**, University of Bucharest, Faculty of Chemistry, Department of Organic Chemistry, Biochemistry and Catalysis
January-March 2010 **Postdoctoral researcher** within Marie Curie Excellence Team at Technical University of Munich,, Germany
February 2012-February 2014 **Counselor** at Department of Education and Research, Romanian Presidential Administration
September 2010-February 2012 **Head of staff** of the Romanian Minister of Education, Research, Youth and Sports, Romanian Government

Research fields

Organic synthesis; Nitrogen-based heterocycles; Supramolecular and Dynamic Chemistry; Solid-Phase Peptide Synthesis; Activity-Based Protein Profiling, Bioorganic Chemistry
Publications: 35, cumulated IF 100.2, citations (September 2019, Scopus, without self-citations) 316, *h*-11.
Coordinator of national research grant *TE-2014-4-0808*. Member of research team in 6 national and 2 international research projects (as PhD student).

Varia

- Cambridge Certificate of Proficiency in English (CPE) - sworn translator
- Member of the Romanian Chemistry Society
- "*Costin D. Nenitescu*" prize of the Romanian Academy 2014
- Reviewer for: *Rev. Rou. Chim., Lett. Org. Chem, J. Braz. Soc. Chem., ChemistrySelect, Synth. Commun., Can. J. Chem., Het. Commun, Synthesis, Cur. Org. Chem., Cur. Org. Synth.*
- Expert for the European Commission - Horizon 2020 - MSCA-IF 2015-2019
- Member of the National Chemistry Olympiad Committee and member of the Romanian Team for the International Chemistry Olympiad - since 2013
- Member of the Faculty council (2015-2019) and member of the Department Council (2015-2019)
- Coordinating B.Sc/M.Sc thesis since 2005 (>20) and *Eugen Ionesco postdoc scholar* 2019
- Initiator of bilateral Erasmus agreements (for students and staff) with *University Blaise-Pascal of Clermont-Ferrand, University of Strasbourg - 2014-2020, University of Turin, Charles University of Prague, University of Montpellier*

**Bucharest,
October 2019**

Dr. Mihaela Matache

Publications (selection)

- *A novel adaptive fluorescent probe for cell labelling*, A.G. Coman, A. Paun, C.C. Popescu, N.D. Hădăde, A. Hanganu, G. Chiritoiu, I.C. Farcasanu, **M. Matache**, *Bioorg. Chem.* **2019**, 92, 103295.
- *A novel profluorescent paramagnetic diaza-crown ether: Synthesis, characterization and alkaline metal-ion complexation*, A.G. Coman, C. Stavarache, A. Paun, C.C. Popescu, N.D. Hădăde, P. Ionita, **M. Matache**, *RSC Advances*, **2019**, 9, 6078-6083
- *Conformation-induced light emission switching of N-acylhydrazones systems*, A.G. Coman, A. Paun, C.C. Paraschivescu, N.D. Hădăde, C.C. Anghel, A.M. Madalan, P. Ionita, **M. Matache**, *New J. Chem.* **2018**, 42, 14111-14119
- *Naphthalenediimide – A Unique Motif in Macrocyclic and Interlocked Supramolecular Structures* A. Diac, **M. Matache**, I. Grosu, N.D. Hădăde, *Adv. Synth. Catal.* **2018**, 360, 817–845.
- *Synthesis of novel profluorescent nitroxides as dual luminescent-paramagnetic active probes*, A.G. Coman, C.C. Paraschivescu, A. Paun, A. Diac, N. D. Hadade, L. Jouffret, A. Gautier, **M. Matache**, P. Ionita, *New J. Chem.*, **2017**, 41, 7472--7480
- *1,3,4-Oxadiazoles as luminescent materials for organic light emitting diodes via cross-coupling reactions*, A. Paun, C.C. Paraschivescu, N.D. Hadade, **M. Matache**, *J. Mater. Chem. C* **2016**, 4, 8596-8610
- *Synthesis of New Alkynyl-Bridged 2,5-Disubstituted 1,3,4-Oxadiazoles*, A. Păun, C.C. Paraschivescu, **M. Matache**, V.I. Pârvulescu, *Synthesis-Stuttgart* **2016**, 48, 606-614
- *New Acyloxymethyl Ketones - Useful Probes for Cysteine Protease Profiling*, A.G. Coman, C.C. Paraschivescu, N.D. Hadade, A. Juncu, O. Vlaicu, C.-I. Popescu, **M. Matache**, *Synthesis-Stuttgart* **2016**, 48, 3917-3923
- *A convenient alternative for the selective oxidation of alcohols by silica supported TEMPO using dioxygen as the final oxidant*, A.J. Shakir, C. Paraschivescu, **M. Matache**, M. Tudose, A. Mischie, F. Spafiu, P. Ionita, *Tetrahedron Lett.* **2015**, 56, 6878-6881
- *Convenient synthesis of 2-alkynylbenzazoles through Sonogashira cross-coupling reaction between thioethers and terminal alkynes* A. Păun, **M. Matache**, F. Enache, I. Nicolau, C.C. Paraschivescu, P. Ioniță, I. Zarafu, V.I. Pârvulescu, G. Guillaumet, *Tetrahedron Lett.* **2015**, 56, 5349–5352
- *Symmetrical and non-symmetrical 2,5-diaryl-1,3,4-oxadiazoles: synthesis and photophysical properties*, C.C. Paraschivescu, N.D. Hădăde, A.G. Coman, A. Gautier, F. Cisnetti, **M. Matache**, *Tetrahedron Lett.* **2015**, 56, 3961-3964
- *Synthesis of new 1,3,4-oxadiazoles by oxidative cyclisation with bis(trifluoroacetoxy)iodobenzene*, C.C. Paraschivescu, A.G. Coman, C.C. Anghel, **M. Matache**, *Rev. Rou. Chim.* **2015**, 60, 339-343
- *Selective host molecules obtained by Dynamic Adaptive Chemistry*, **M. Matache**, E. Bogdan, N.D. Hădăde, *Chem. Eur. J.* **2014**, 20, 2016–2131
- *Luminogenic “clickable” lanthanide complexes for protein labeling*, N. Candelon, N.D. Hadade, **M. Matache**, J.-L. Canet, F. Cisnetti, D.-P. Funeriu, L. Nautonae, A. Gautier, *Chem. Commun.* **2013**, 49, 9206–9208.
- *Unexpected formation of N-(1-(2-aryl-hydrazono)isoindolin-2-yl)benzamides and their conversion into 1,2-(bis-1,3,4-oxadiazol-2-yl)benzenes*, C. Paraschivescu, **M. Matache**, C. Dobrotă, A. Nicolescu, C. Maxim, C. Deleanu, I.C. Fărcășanu, N.D. Hădăde, *J. Org. Chem.* **2013**, 78, 2670–2678
- *A general solid phase method for the synthesis of sequence independent peptidyl-fluoromethyl ketones*, G.-D. Roiban, **M. Matache**, N.D. Hădăde, D.-P. Funeriu, *Org. Biol. Chem.* **2012** 10, 4516-4523 (**cover**).
- *Glycine Fluoromethylketones as SENP-Specific Activity Based Probes*, C. Dobrotă, D. Fasci, N.D. Hădăde, G.-D. Roiban, C. Pop, V.M. Meier, I. Dumitru, **M. Matache**, G.S. Salvesen, D.-P. Funeriu, *ChemBioChem* **2012**, 13, 80–84. *FI (2012)* - 3,944

- *Metal Ion Mediated Self-Assembly Directed Formation of Protein Arrays*, N.D. Bogdan, **M. Matache**, G.-D. Roiban, C. Dobrotă, V.M. Meier, D.-P. Funeriu, *Biomacromolecules* **2011**, *12*, 3400–3405
- *Recent Developments in the Reactivity of the Biginelli Compounds*, **M. Matache**, C. Dobrotă, N.D. Bogdan, D.-P. Funeriu, *Curr. Org. Synth.* **2011**, *8*, 356–373.
- *Expedient access to fused quinoxalines via Dess-Martin periodinane-mediated cyclization of unsymmetrical phenylenediamide derivatives*, C. Dobrotă, J. Graeupner, I. Dumitru, **M. Matache**, C.C. Paraschivescu, *Tetrahedron Lett.* **2010**, *51*, 1262–1264.
- *Protein-inorganic arrays construction: design and synthesis of the building blocks*, N.D. Bogdan, **M. Matache**, V.M. Meier, C. Dobrotă, I. Dumitru, G.D. Roiban, D.-P. Funeriu, *Chem. Eur. J.* **2010**, *16*, 2170–2180.
- *Removing heavy metals from synthetic effluents using “kamikaze” *Saccharomyces cerevisiae* cells*, L.L. Ruță, C.C. Paraschivescu, **M. Matache**, S. Avramescu, I.C. Fărcășanu, *Appl. Microbiol. Biotechnol.* **2010**, *85*, 763–771.
- *Synthesis of fused dihydro-pyrimido[4,3-d]coumarins using Biginelli multicomponent reaction as key step*, **M. Matache**, C. Dobrotă, N.D. Bogdan, I. Dumitru, L.L. Ruță, C.C. Paraschivescu, I.C. Fărcășanu, I. Baci, D.-P. Funeriu, *Tetrahedron* **2009**, *65*, 5949–5957.
- *Convenient preparation of unsymmetrical 2,5-disubstituted 1,3,4-oxadiazoles promoted by Dess-Martin reagent*, C. Dobrota, C.C. Paraschivescu, I. Dumitru, **M. Matache**, I. Baci, L.L. Ruta, *Tetrahedron Lett.* **2009**, *50*, 1879–1881.