

MATTIUZZI Alice

Date of birth : 26 October 1985 | Nationality : Belgian

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EDUCATION AND TRAINING

July 2016 - Present	CEO – X4C X4C is a spin-off company from Brussels University (ULB) that wants to become a leader in innovative surface coating solutions for high-end applications
October 2015 - February 2016	Project manager and researcher Fonds de Maturation – Public grant Université libre de Bruxelles, Laboratoire de Chimie Organique, Bruxelles (Belgium) Synthesis and surface grafting of organic substrates
July 2012 - October 2015	Project manager and researcher FIRST Spin-Off MONOCAL – Public grant Université libre de Bruxelles, Laboratoire de Chimie Organique, Bruxelles (Belgium) Synthesis and surface grafting of organic substrates
October 2007 - March 2012	PhD in Chemistry – Aspirante FNRS Université libre de Bruxelles, Service de Chimie Organique, Bruxelles (Belgium) Synthesis and study of photophysical proprieties of Ru(II) complexes from 1,2,3-triazole based ligands and from calix[4 and 6]arenes based ligands - Use of calix[4]tetradiazoniums for the surface modification. Supervisor: Prof. Ivan Jabin
September 2005 - June 2007	Degree of « Licence en Sciences Chimiques » (GD) Université libre de Bruxelles, Bruxelles (Belgium) Master thesis: Synthesis of Ruthenium (II) complexes from calix[6]arene based ligands.
September 2003 - June 2005	Degree of « Candidature en Sciences Chimiques » (D) Université libre de Bruxelles, Bruxelles (Belgium)
June 2003	Graduated from High School Athénée Royal Vauban, Charleroi

PERSONAL SKILLS

Mother tongue(s) French

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
Dutch	A1	A1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages

Computer skills

Good command on office suite (Word, Excel, PowerPoint)
Good command on chemistry related software (Chemdraw, Mestrenova)
Basic knowledge on data treatment (OriginPro)

Laboratory skills	Organic Synthesis Synthesis of ruthenium polypyridyl-type complexes Synthesis of gold nanoparticles Surface modification Purification Analysis (use of Electrospray Mass Spectrometry, NMR, Infrared) Photochemistry: UV-Vis and emission measurements, SPC Surface analysis: XPS, AFM, Contact angle measurements, Infrared, Cyclic Voltammetry
Driving licence	B I am also in possession of a personal car.
Hobbies	Sports (basketball), Cooking, Travel, Reading

SCIENTIFIC ACTIVITIES

Examples of participation of symposia	COST Action – Supramolecular Chemistry in Water (poster and oral communication) Calix2013 (poster and oral communication) 6 th and 9 th International Symposium on Macrocyclic and Supramolecular Chemistry (posters) EDT CHIM (poster and oral communication)
July 2012 - October 2015	Researcher FIRST Spin-Off MONOCAL – Public grant Université libre de Bruxelles, Laboratoire de Chimie Organique, Bruxelles (Belgium) Synthesis and surface grafting of organic substrates
July 2012 - October 2015	Scientific stay Université de Rennes 1 Duration : 2 X 1 month

AWARDS

FNRS grant
Debrouckère-Solvay grant (scientific trip)
Fonds L. et H. Fredericq (symposium)
Fonds David & Alice Van Buuren (end of PhD)
Solvay Award 2012 for PhD thesis

PUBLICATIONS

- 1- « Ru-TAP complexes with btz and pytz ligands : novel candidates as photooxidizing agents »
A. Mattiuzzi, I. Jabin, C. Moucheron, A. Kirsch-De Mesmaeker *Dalton trans.*, 2011, **40**, 7395-7402
- 2- « Ipso-Nitration of Calix[6]azacryptands: Intriguing Effect of the Small Rim Capping Pattern on the Large Rim Substitution Selectivity » M. Lejeune, J.-F. Picron, A. Mattiuzzi, A. Lascaux, S. De Cesco, A. Brugnara, G. Thiabaud, U. Darbost, D. Coquière, B. Colasson, O. Reinaud, and I. Jabin *J. Org. Chem.*, 2012, **77**, 3838-3845.
- 3- « Electrografting of calix[4]arene diazonium salts to form versatile robust platforms for spatially controlled surface functionalization » A. Mattiuzzi, I. Jabin, C. Mangeney, C. Roux, O. Reinaud, L. Santos, J.-F. Bergamini, P. Hapiot and C. Lagrost *Nature Commun.*, 2012, **3**, 1130-1137.
- 4- « Synthesis and Electrochemical and Photophysical Properties of Calixarene-Based Ruthenium(II) Complexes as Potential Multivalent Photoreagents » A. Mattiuzzi, L. Marcélis, I. Jabin, C. Moucheron, A. Kirsch-De Mesmaeker *Inorg. Chem.*, 2013, **52**, 11228-11236.
- 5- "Construction de surfaces modifiées par une monocouche de calix[4]arènes : contrôle chimique et spatial à l'échelle moléculaire" Mattiuzzi, A.; Jabin, I.; Reinaud, O.; Hapiot, P.; Lagrost, C. *Chimie Nouvelle*, 2013, **114**, 11-15.

6- "Fonctionnalisation contrôlée de surfaces à l'échelle moléculaire" Lagrost, C.; Mattiuzzi, A.; Jabin, I.; Hapiot, P.; Reinaud, O. **Techniques de l'ingénieur**, 2014, Ref. IN165.

7- "One-Pot Electrografting of Mixed Mono-Layers with Controlled Composition" Santos, L.; Mattiuzzi, A.; Jabin, I.; Vandecasteele, N.; Reniers, F.; Reinaud, O.; Hapiot, P.; Lhenry, S.; Leroux, Y.; Lagrost, C. **J. Phys. Chem. C**, 2014, **118**, 15919-15928.

8- "Rational strategies for the selective functionalization of calixarenes" Lavendomme, R.; Zahim, S.; De Leener, G.; Inthasot, A.; Mattiuzzi, A.; Luhmer, M.; Reinaud, O.; Jabin, I. **Asian J. Org. Chem.**, 2015, **4**, 710-722.

9- "Extremely robust and post-functionalizable gold nanoparticles coated with calix[4]arenes via metal-carbon bonds" Troian-Gautier, L.; Valkenier, H.; Mattiuzzi, A.; Jabin, I.; Van den Brande, N.; Van Mele, B.; Hubert, J.; Reniers, F.; Bruylants, G.; Lagrost, C.; Leroux, Y. **Chem. Commun.**, 2016, **52**, 10493-10496.

10- "Controlled Modification of Polymer Surfaces Through Grafting of Calix[4]arene-Tetradiazoate Salts" Troian-Gautier, L.; Martinez-Tong, D.; Hubert, J.; Reniers, F.; Sferrazza, M.; Mattiuzzi, A.; Lagrost, C.; Jabin, I. **J. Phys. Chem. C**, 2016, **120**, 22936-22945.

PATENTS

1- "Materials Coated with Calixarenes" Mattiuzzi, A.; Jabin, I.; Reinaud, O.; Hapiot, P.; Lagrost, C. **Patent WO2013152967**, Apr. 2012.