



### **Informacioni Personal**

Emri /Mbiemri	<b>Nertil Xhaferaj</b>
Adresa	Tirane, Albania
Telefoni	Cellular: 00355693540078
E-mail	<a href="mailto:nertil.xhaferaj@gmail.com">nertil.xhaferaj@gmail.com</a> / <a href="mailto:nxhaferaj@ubt.edu.al">nxhaferaj@ubt.edu.al</a>
Shtetësija	Albanian
Ditëlindja	03/04/1987
Gjinia	M

### **Eksperiencat e Punësimit**

Data	<b>Janar 2018 – Vazhdim</b>
Pozicioni Punës	Lektorë, Shtesat dhe Ushqimet Funktionale, Metodologjia e Kerkimit Leksione dhe Praktika Laboratorike Universiteti Bujqesor i Tiranës, Fakulteti Bioteknologjisë dhe Ushqimit
Data	<b>Tetore 2016 – Janar 2018</b>
Pozicioni Punës	Lektore i Kimisë Përgjithshme/Fizike Leksione dhe Praktika Laboratorike Albanian University
Data	<b>Shtator 2016 - Tetore 2018</b>
Pozicioni Punës	Lektore i Ftuar i Kimisë Organike Leksione dhe Praktika Laboratorike University of Elbasan
Data	<b>Mars 2013 – Shkurt 2015 (Pjese e Programit te Doktoratures) Part Time</b>
Pozicioni Punës	Kërkues shkencor pranë departamentit të kerkimit dhe zhvillimit Rekuperimi i metaleve të çmuara nga mbetjet toksike dhe jo toksike ORIM S.p.A. ( <a href="http://www.orim.it/it/">http://www.orim.it/it/</a> ), Macerata - Italy Industri kimike me aktivitet kryesor trajtimin e mbetjeve toksike dhe jo toksike me qellim ekstraktimin e metaleve dhe tregtimin e tyre

**Education****Data****01/04/ 2015 – 30 /09/2015. Paris - France, Visiting PhD student**

Titulli Shkencor

**Kerkim shkencore, Pjesë e programit PhD**

Fusha e Kerkimit

Kimi e Përgjithshme dhe Inorganike, Kimi e Materialeve hibride poroze

Titulli i Projektit

**Project: Sinteza e materialeve hibride poroze (MOFs) duke perdorur metalet me valence te lartë, Al (III), dhe Zr (IV) dhe si donor Acide karboksilike**

Instituti

**Supervisor: Dr. Christian Serre,**

Instituti Lavoisier, Departamenti i Kimisë, Universiteti i Versajës, Francë

**Data****2013 – 2016, Itali, Doktorature**

Titulli Shkencor

**Doktore Shkencash ne Kimi (Mbrojtja 6 Prill 2016)**

Fusha e Kerkimit

Kimia e Përgjithshme dhe Inorganike, Kimia e materialeve hibride poroze, Kimia e trupit të Ngurtë. Kimi organometalike

Titulli i Projektit

**Projekti: Sintezat e materialeve poroze të bazuara në metalet kalimtare, dhe aplikimi në katalizën heterogjene****Supervisor: Prof. Claudio Pettinari**

Institute

Instituti i komponimeve Organometalike (ICCOM - CNR), Divisioni Kimisë, Shkolla e Farmacisë, Universiteti i Camerino

**Data****2008-2010. Shqiperi, Master i Shkencave (Msc) ne Kimi Ushqimore**

Lendet

Bioinxhinieria. Inxhinieri kimike. Kontrolli i Sigurisë dhe Cilësisë, HACCP, ISO 9000,22000,14000. Bioteknologji. Enzimologjia. Teknologjitë Inovative në Industrinë Ushqimore

Instituti

Universiteti i Tiranës, Fakulteti i Shkencave të Natyrës. (Diplomë Master). GPA 9.7 / 10

**Data****2005-2008. Shqiperi, Bachelor (Bsc) ne Kimi Ushqimore**

Lendet

Kimi e përgjithshme, kimi organike, kimi analitike, kimi fizike. Prodhimi dhe Ruajtja e Ushqimit. Përdorimi i mikroorganizmave në industrinë ushqimore. Zbatimet e Parimeve të Kimisë Inxhinierike. Kimi analitike dhe analiza ushqyese.

Instituti

Universiteti i Tiranës, Fakulteti i Shkencave të Natyrës. (Diplomë Bachelor). GPA 8.7 / 10

**Summer School**Data**30/05/2016 – 03 /06/2016. Tirane, Shqiperi**

## Lendet

Simetria në kristalografi, difraksioni i rrezeve X, zvogëlimi i të dhënave, zgjidhja dhe përsosja e strukturës, përcaktimi i strukturës nga XRPD. Shkolla e Kristalografisë. Universiteti Politeknik i Tiranës  
Laborator i Hapur (Teoria dhe Praktika Laboratorike)

## Instituti

Universiteti Politeknik i Tiranës, Fakulteti i inxhinierisë fizike

Data**05/09/2015 – 09/09/2015, Universiteti i Camerinos**

## Lendet

Katalizë hetero / homogjene, kimi medicinale, kimi organometalike, polimer koordinues, NMR e ngurtë etj.

Shkolla e 10-të Ndërkombëtare e Kimisë Organometalike (ISOC)

## Instituti

Universiteti i Camerinos, Shkolla e Farmacisë, Departamenti i Kimisë

Data**31/07/2013 – 11 /08/2013. Italy, Shkollë Verore**

## Lendet

Kataliza hetero / homogjene, kimia e gjelbër, kimia organike, kimia llogaritëse, kimia analitike, nanoteknologjia, kimia organometalike, kimia fizike etj.

**Tema: European Chemists for Energy, Materials and Environment Euceme 2013.**

## Instituti

Shkolla Verore, program intensiv, Universiteti i Camerinos, Itali

**Training Activity**Data**31 Janar 2013 – 10 SHKURT 2013. Camerino – Italy**

## Subjekti

Laborator trajnimit: Zgjidhja NMR, FT-IR, TGA, ESI-MS, Sinteza e mikrovalëve, Analizuesi i thithjes, Sinteza e solvo / hidrotermike etj.

## Instituti

Instituti i komponimeve Organometalike (ICCOM - CNR), Divisioni Kimisë, Shkolla e Farmacisë, Universiteti i Camerino

Data**Qershor 2013 – Shtator 2013. Macerata – Italy**

## Subject

Laboratori i Trajnimit: ICP - MS, Fluoreshenca me rreze x. Rikuperimi i metaleve nga katalizatori i shpenzuar Pjesë e projektit PhD.

## Institute

Orim S.p.A, (<http://www.orim.it/it/>), Macerata - ItalyDates**April 2015, Versailles – France**

## Subjekti

Laboratori i Trajnimit: Difraksioni i pluhurit me rreze X, Kristali i vetëm me rreze X, VT-XRPD, Solucioni dhe NMR i ngurtë, SEM.

## Instituti

Instituti Lavoisier, Departamenti i Kimisë, Universiteti i Versajës, Francë

Data May 2017, Tirane – Shqiperi

Subjekti Laboratori i Trajnimit: Kromatografia e gazit, HPLC

Instituti Albanian University, Fakulteti i Shkencave Mjekësore, Departamenti i Farmacisë

### **PERSONAL SKILLS**

Gjuha e nënës **Gjuha Shqipe**

Gjuhë të tjera **Anglisht, ITALISHT**

	Të kuptuarit		Të folurit		Të shkruarit
	Degjim	Lexim	Ndërveprim folës	Prodhim folës	
<b>Anglisht</b>	Avancuar	Avancuar	Avancuar	Avancuar	Avancuar
<b>Italisht</b>	Shume mire	Shume mire	Shume mire	Shume mire	Mire

Aftësi komunikimi dhe kompetenca

Shkathtësi të shkëlqyera komunikimi të fituara përmes përvojës sime si Student dhe PhD Student

Aftësi kompjuterike dhe kompetenca

Good command of Microsoft Office tools, Origin Lab, Mercury Program, Diamond Program. EXPO, Check Cell and Powder diffraction, Chem Draw

### **Research Interest**

- Synthesis of Coordination polymer and MOFs porous materials and application in Heterogeneous Catalysis, Gas absorption
- Structure/Properties relationships
- Aditivë, Komponentë aktivë në Ushqim, Kimi e Ushqimit

**Publication**

1. Sujing Wang, **Nertil Xhaferaj**, Mohammad Wahiduzzaman, Kolade Oyekan, Xiao Li, Kevin Wei, Bin Zheng, Antoine Tissot, Jérôme Marrot, William Shepard, Charlotte Martineau-Corcoc, Yaroslav Filinchuk, Kui Tan, Guillaume Maurin, and Christian Serre” **Engineering Structural Dynamics of Zirconium Metal-Organic Frameworks Based on Natural C4-linker**, JACS; October 2019 DOI:10.1021/jacs.9b07816
2. **Nertil Xhaferaj**, Aurel Tabacaru, Marco Maroni, Ganna A. Senchyk, Konstantin V. Domasevitch, Claudio Pettinari, Simona Galli. “**New Coordination Polymers of Zinc(II), Copper(II) and Cadmium(II) with 1,3-Bis(1,2,4-triazol-4-yl)adamantane**” MDPI, Inorganics 2020, 8(11), 60; <https://doi.org/10.3390/inorganics8110060>
3. Elisa Lavigna, **Nertil Xhaferaj**, Aurel Tabacaru, Marco Lamperti, Massimo Mella, Luca Nardo, Claudio Pettinari, Simona Galli, „*Investigating the Structural Features and Spectroscopic Properties of Bis(tetrazolato)-Based Coordination Polymers*”, ACS, Cryst. Growth Design., 2016, 16 (11), pp 6390–6404. DOI: 10.1021/acs.cgd.6b01056
4. Aurel Tabacaru, **Nertil Xhaferaj**, Simona Galli, Luisa M.D.R.S. Martins, Elisabete C.B.A. Alegria, Rogerio Chay, Armando J.L. Pombeiro, Claudio Pettinari, Konstantin V. Domasevitch, „*Metal azolate/carboxylate frameworks as catalysts in peroxidative oxidation of alcohols and nitroaldol C-C coupling*”, ACS Inorg. Chem., 2016, 55 (12), pp 5804–5817. DOI:10.1021/acs.inorgchem.5b02997
5. Simona Galli, Carlotta Giacobbe, Aurel Tabacaru, **Nertil Xhaferaj**, Claudio Pettinari, „*Unsolvated ruthenium(II) dichloride: the beta polymorph*”, Elsevier J. Mol. Struct. 2014, 1067, 233-238. DOI: 10.1016/j.molstruc.2014.03.046
6. **Nertil Xhaferaj**, Aurel Tabacaru, Claudio Pettinari, „*Synthesis and Characterization of New Silver(I) Coordination Polymers Incorporating a Bis(triazolyl)-type Ligand.*”, Annals of “Dunarea De Jos” University of Galati Mathematics, Physics, Theoretical Mechanics Fascicle II, YEAR X (XLI) 2018, No. 2 ISSN 2067 – 2071, Romania, 2018
7. Claudio Pettinari, Riccardo Pettinari, **Nertil Xhaferaj**, Giuliano Giambastiani, Andrea Rossin, Laura Bonfili, Anna Maria Eleuteri, Massimiliano Cuccioloni., *Binuclear 3,3',5,5'-tetramethyl-1H,H-4,4'-bipyrazole Ruthenium(II) Complexes: Synthesis, Characterization and Biological Studies.*, Volume 513, 2020, 119902 Inorganica Acta/Elsevier 2020 <https://doi.org/10.1016/j.ica.2020.119902>
8. **Nertil Xhaferaj**, Fabio Maggiore. “*Recovery of Molybdenum, Vanadium and Nickel from filter cake*” Proceeding Conference ISCL 2020, Istanbul
9. **Nertil Xhaferaj**, Anisa Peculi, Anila Kopali, Aida Shkurti, Fatjon Hoxha. “*Evaluation of Caffeine in Soft and Energy Drinks by Means of UV/Visible Spectrophotometer.*” Albanian j. agric. sci. 2019; (Special edition)
10. Anisa Peculi, **Nertil Xhaferaj**, Anila Kopali, Aida Shkurti, Fatjon Hoxha. “*Evaluation of Phosphorus in Cola Drinks in Albanian Market.*” Albanian j. agric. sci. 2019; (Special edition)
11. **Nertil Xhaferaj**, Claudio Pettinari, Fabio Maggiore. “*Extraction of metals from spent catalysts: Physical treatments and leaching stage.*” ...Manuscript in preparation...

## Conferences

1. **Nertil Xhaferaj**, Claudio Pettinari, Simona Galli, Armando J. Pombeiro., *New Metal Organic Frameworks (MOFs) Incorporating 3,5-dimethyl-4-Carboxypyrazole as heterogeneous Catalysts in Oxidative Reactions* ., 1st International Balkan Chemistry congress (**IBCC 2018-Edirne**), **Turkey**. September 2018. Book of Abstract, Page 160.
2. **Nertil Xhaferaj**, Claudio Pettinari, Fabio Maggiore., *Recovery of Molybdenum and Vanadium from spent catalyst used in petroleum refining for hydrodesulphurization process.*, The 2<sup>nd</sup> International Conference of Agriculture and Life Science, 7-9 May 2018, **Tirane- Albania**. Book of Abstract, Page 224, ISBN: 978 – 9928 – 245 – 34 – 2
3. **Nertil Xhaferaj**, Claudio Pettinari, Simona Galli., *Unsolvated Ruthenium(II) Benzene Dichloride: The Beta Polymorph*” The 2<sup>nd</sup> International Conference on Applied Sciences and Engineering, 16 – 17 November 2017, **Tirane- Albania**. Book of Abstracts, Page 5, ISBN: 978 – 9928 – 146 – 48 – 9
4. **Nertil Xhaferaj**, Claudio Pettinari, Massimiliano Cuccioloni, Anna Maria Eleuteri, ”*Dinuclear arene ruthenium(II) complexes with 3,3',5,5'-tetramethyl-4,4'-bipyrazole and modulation of proteasome activity*” oral presentation), Third International Conference of Pharmaceutical Sciences, 12 – 13 May 2017, **Tirane – Albania**. Book of Abstracts, pag. 14, ISBN: 978 – 9928 – 127 – 80 – 8
5. **Nertil Xhaferaj**, Aurel Tabacaru, Elisa Lavigna, Simona Galli, Luca Nardo, Claudio Pettinari, „*Zinc(II), mercury(II) and silver(I) coordination polymers containing a flexible bis(tetrazolato)-based tecton*” (poster presentation), 6th EuCheMS Conference on Nitrogen Ligands, 13-17 September **2015**, Beaune, France. Book of Abstracts, pag. 257.
6. Elisa Lavigna, **Nertil Xhaferaj**, Aurel Tabacaru, Luca Nardo, Simona Galli, Claudio Pettinari, „*Transition metal-based coordination polymers with a flexible poly(azolato) tecton: structural aspects and spectroscopic properties*” (poster presentation), 2<sup>nd</sup> ICSU/IUPAC Workshop on Crystal Engineering, August 30<sup>th</sup> – September 1<sup>st</sup>, **2015**, Como, Italy
7. Aurel Tabacaru, Claudio Pettinari, Fabio Marchetti, Simona Galli, **Nertil Xhaferaj**, Andrea Rossin, Maurizio Peruzzini, „*Novel coordination polymers based on bis- and tris-pyrazolyl ligands*” (oral presentation), First European Conference on Smart Inorganic Polymers (EUSIP 2014), 21-23 September **2014**, Maribor, Slovenia. Book of Abstracts: pag. 38.
8. **Nertil Xhaferaj**, Aurel Tabacaru, Claudio Pettinari, Fabio Marchetti, Simona Galli, Norberto Masciocchi, Konstantin V. Domasevitch, „*1,3-bis(1,2,4-triazolyl)adamante-based coordination polymers*” (poster presentation), 4<sup>th</sup> Scientific Day of the School of Science and Technology, 11 June **2014**, Camerino, Italy.
9. Aurel Tabacaru, **Nertil Xhaferaj**, Riccardo Pettinari, Fabio Marchetti, Claudio Pettinari, Massimiliano Cuccioloni, Anna Maria Eleuteri, ”*Dinuclear arene ruthenium(II) complexes with 3,3',5,5'-tetramethyl-4,4'-bipyrazole and modulation of proteasome activity*” (poster presentation), 9th International School of Organometallic Chemistry, 30 August – 3 September **2013**, Camerino, Italia. Book of Abstracts, P43
10. **Nertil Xhaferaj**, Aurel Tabacaru, Claudio Pettinari, Fabio Marchetti, Riccardo Pettinari, Simona Galli, Norberto Masciocchi, Konstantin V. Domasevitch, “*Novel coordination frameworks incorporating 3,5-dimethyl-4-carboxypyrazole*” (poster presentation), 3<sup>rd</sup> Scientific Day of the School of Science and Technology. Book of Abstracts, P27, 12 June **2013**, Camerino, Italy. ISBN: 9788867680122

11. Nello Mosca, **Nertil Xhaferaj**, Claudio Pettinari, Fabio Marchetti, Riccardo Pettinari. “*Novel Coordination Frameworks Based on Polytopic Heteroaromatic Nitrogen Carboxylate Ligands*”.(poster presentation).Congresso Nazionale di Chimica Inorganica. Inorg 2015. 09-12 September, 2015 **Camerino-Italy**. Book of Abstracts, Page 122
12. **Nertil Xhaferaj**, Claudio Pettinari, Fabio Maggiore. “*Extraction of metals from spent catalysts : Physical treatments and leaching stage.*” (Oral). 17<sup>th</sup> International Conference on Chemistry and the Environmental in Thessaloniki, Greece in June 2019. **Conference Proceedings, page 519**
13. **Nertil Xhaferaj**, Fabio Maggiore. “*Recovery of Molybdenum, Vanadium and Nickel from filter cake.*” (Poster). 17<sup>th</sup> International Conference on Chemistry and the Environmental in Thessaloniki, Greece in June 2019. **Conference Proceedings, page 559**
14. **Nertil Xhaferaj**, Anisa Peculi, Anila Kopali, Aida Shkurti, Fatjon Hoxha. “*Evaluation of Caffeine in Soft and Energy Drinks by Means of UV/Visible Spectrophotometer.*” (Poster). 3<sup>d</sup> International Conference on “Challenges in Biotechnological and Environmental Approaches, April 2019. **Book of Abstract, page 24**
15. Anisa Peculi, **Nertil Xhaferaj**, Anila Kopali, Aida Shkurti, Fatjon Hoxha. “*Evaluation of Phosphorus in Cola Drinks in Albanian Market.*” (Poster). 3<sup>d</sup> International Conference on “Challenges in Biotechnological and Environmental Approaches, April 2019. **Book of Abstract, page 25**
16. **Nertil Xhaferaj**, Anisa Peculi, Sara Serbo, Albjona Brahillari, Erjola Kopali, Anila Kopali. “*Optimization of the extraction of caffeine from coffee and tea samples.*” (Poster) 55th Croatian & 15th International Symposium on Agriculture, February 2020
17. Anisa Peculi , **Nertil Xhaferaj**, Sara Serbo, Anila Kopali, Alekta Shehaj. “*Caffeine content in coffee and tea sample available in Albanian market by UV-vis spectrophotometer*”(Poster) 55th Croatian & 15th International Symposium on Agriculture, February 2020
18. **Nertil Xhaferaj**, Anisa Peçuli, Aida Shkurti, Anila Kopali “*Recycling and recovery of hazardous inorganic constituents from filter cake waste*”(Poster), International Conference of Life Sciences ICLS2020 (19-20, DECEMBER 2020), Istanbul, Turkey
19. Onejda Kycyk, Anisa Peculi, **Nertil Xhaferaj**, Albiona Brahillari, and Fatbardha Lemce “*Comparison of polyphenol content in olive oil cv Kalinjot obtained in two different extraction system*” Agriculture a Life Science with roots in Applied Biolog. DECEMBER 2020), Tirane, Albania