



# ILV

## Institut Lavoisier de Versailles

### PHD AND HDR DEFENSES

#### PhD defenses

2025

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**Anna Gagliardi** (EPI team), December 12, 2025

"Aging in different environments of  $\text{Cu}(\text{In}_x\text{Ga}_{1-x})\text{Se}_2$  surfaces."

**Kelvin Meza-Casamayor** (SORG team), November 27, 2025

"Development of cosmetic ingredients from renewable resources in Eure-et-Loir"

**Khaled Dassouki** (MIM team), November 27, 2025

"Synthesis of MOF-based Composites for Photocatalytic Conversion of  $\text{CO}$ "

**Gianluca Visagli** (EPI team), November 24, 2025

"Passivation Strategy for III–V Semiconductors: A New Alternative for Micro-Optoelectronics"

**Gabrielle Mpacko Priso** (MIM team), November 19, 2025

"Super-Reduced Polyoxometalates: Formation, Structure and Properties"

**Tourya Khlifi** (SORG team), November 14, 2025

"Atroposelective construction of axially chiral 2-aryl-4-quinolones"

**Julien Paut** (SORG team), November 7, 2025

"Development of New Methodologies in Photocatalysis Involving Fluorinated and Strained Structures"

**Roa Chamandi** (MIM team), October 17, 2025

"Composite materials: polyoxometalate/polymer for the photodegradation of organic pollutants"

**Kirène Gaffar** (EPI team), February 24, 2025

"Advanced characterization of HEMT interfaces for power electronics: correlation between chemical, structural and electrical properties"

## 2024

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**Vincent Carpentier** (SORG team), December 13, 2024

"The naturalness of ionones as flavouring molecules - Flavour encapsulation by extrusion"

**Nour Zeaiter** (MIM team), December 9, 2024

"Valorization of biomass residues by oxidative depolymerization using Ionic Liquids based on Polyoxometalates"

**Oumayma Bejaoui** (SORG team), November 28, 2024

"Contribution to the study of phosphonate reactivity and applications to the construction of new heterocycles"

**Olfa Zayene** (SORG team), November 20, 2024

"Molecular recognition of anions by combination of weak interactions"

**Cédric Viravaux** (MIM team), September 27, 2024

"Development of composite materials based on polyoxometallates: molecular photocommutators and luminescent thermometers"

**Juan Fernando Ramirez Henao** (MIM team), June 19, 2024

"Polyoxometalate-decorated gold nanostars for combinatorial cancer therapy"

**Jonhatan Bachir** (MIM team), April 4, 2024

"Design of bio-hybrid materials based on Metal-Organic Frameworks and Biological Entities"

**Camille Banoun** (SORG team), March 7, 2024

"New synthetic methods for the selective functionalization of alpha,beta-unsaturated aldehydes"

## 2023

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**Zeinab El Hajj** (MIM team), December 19, 2023

"Synthesis and Characterization of New Hybrid Polyoxometalates for Photocatalytic and Biological Applications"

**Marina Briand** (SORG team), October 12, 2023

"-Perfluoroalkylation of ,-unsaturated carbonyl compounds via photoredox catalysis"

**Maxence Lion** (MIM team), September 1, 2023

"{Mo<sub>2</sub>O<sub>2</sub>S<sub>2</sub>}<sup>-</sup>-containing polyoxothiometalates : from supramolecular assemblies to visible light driven hydrogen evolution photocatalysis"

**Fa Ibrahima Bamba** (MIM team), June 6, 2023

"From Inorganic Condensation to Functionalized Hybrids: Structures, Electrochemical Properties and Supramolecular Reactivity of New Polyoxometalates Based on Vanadium"

**Arnaud de Zordo** (SORG team), May 10, 2023

"Preparation of perfluoroalkyl selenoethers by catalysis and then of selenoxides, selenones and selenoximines by oxidation"

**Sa Yao** (MIM team), March 10, 2023

"Design of smart materials: from primary interactions to supramolecular cyclodextrin-based polymers containing polyoxometalates"

**Ali Saad** (MIM team), March 8, 2023

"Design of flexible and nanostructured composites by combining Al<sup>3+</sup>MOFs and graphene oxide for adsorption applications"

## 2022

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**Manon Genet** (SORG team), December 12, 2022

"Development of domino reactions toward the synthesis of complex polycyclic scaffolds"

**Mai D. L. Vuong** (MIM team), December 5, 2022

"Degradation mechanisms of nanoparticle-based drug delivery systems: the case of polymer conjugate and metal-organic framework"

**Thibaut Duhail** (SORG team), May 11, 2022

"Perfluorinated hypervalent iodosulfoximines and benzodithiazoles syntheses: new perfluoroalkylation reagents"

**Melvin Raulin** (SORG team), March 16, 2022

"Studies on azetidines, cyclooctynes and organic cages"

## 2021

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**Romain Plais** (SORG team), December 7, 2021

"Anion- Interaction and Hydrogen Bonding : a new tool for Molecular Recognition and Catalysis"

**Patie Cendra Rakotoarimanana** (EPI team), November 16, 2021

"Nanoscale surface engineering of polyphosphazene films as a passivation support on indium phosphide"

**Mathis Duguet** (MIM team), July 9, 2021

" Porous composite materials for CO<sub>2</sub> conversion: synthesis, characterization, modelization"

**Amine Lakhdari** (EPI team), April 15, 2021

"Control of the electrodeposition of nanometric layers of copper and cobalt for the metallization of interconnections in microelectronics"

**Somia Tomane** (MIM team), March 15, 2021

"Synthesis and characterization of polyoxometalates/gold nanoparticles composites for biomedical applications"

## 2020

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**Safa Azzouni** (SORG team), December 18, 2020.

"Contribution to the synthesis of new phosphorous heterocycles"

**Jad Rabah** (SORG team), December 14, 2020.

"Bodipy-[60]Fullerene-based donor acceptor systems for organic electronics: synthesis, characterization, and surface modification"

**Marina Thierry** (SORG team), December 4, 2020.

"New bio-sourced antioxidant: eco-compatible synthesis, efficiency, synergies and mechanisms"

**Yohan Martinetto** (MIM/SORG teams), October 21, 2020.

« Development of new ionic liquids based on polyoxometalates as oxidation catalysts applied to the valorization of biomass ».

**Jean-Claude Meledje** (EPI team), September 16, 2020

"Electrochemical Behaviors of InP (III-V) Semiconductor covered with a Phosphazene Thin Film in an Aqueous Medium"

**Tanguy Jousselin-Oba** (SORG team), June 18, 2020

"New organic semiconductors for optoelectronic applications"

**Cécile Molto** (EPI team), June 4, 2020

"Understanding of the reaction mechanisms of electrochemical metallization processes used for designing photovoltaic cells silicon"

## 2019

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**Arcadie Fuior** (MIM team), December 17, 2019

"Synthesis and characterization of coordination complexes based on  $[Mo_2O_2E_2]^{2+}$  (E = O or S) for biological applications"

**Anne-Laure Barthelemy** (SORG team), December 3, 2019

"Synthesis of highly functionalized perfluorinated sulfoximines and sulfilimino iminiums. Study of their application in reactions of perfluoroalkylation by photoredox catalysis"

**Benjamin Large** (SORG team), November 14, 2019

"Selective activation of naphthalenes and synthesis of extended polycyclic architectures"

**Kevin Dedecker** (MIM team), March 25, 2019

"Multifunctional Hybrid Materials for the Capture and Detection of Volatile Organic Compounds: Application to Preventive Conservation of Heritage Objects"

**Effrosyni Gkaniatsou** (MIM team), January 25, 2019

"Development of new enzymatic immobilization matrices based on Metal-Organic Frameworks (MOFs) for the catalytic degradation of environmental pollutants"

## 2018

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**Anne-Sophie Marques** (SORG team), December 20, 2018

"Development of new domino reactions initiated by iso-Nazarov cyclization for the synthesis of polycyclic compounds"

**Amandine Boulmier** (MIM team), November 5, 2018

"Synthesis of hybrid polyoxometalates and study of their biological and optical properties"

## HDR defenses

**Clémence Sicard** (MIM team), February 2, 2026

"Functional Materials at the Chemistry-Biology Interface: Combining Metal-Organic Frameworks (MOFs) and Biological Entities"

**Clément Falaise** (MIM team), January 23, 2025

"Contributions to the physical chemistry of inorganic polyanions in water: chaotropic effect, clustering process and other... "

**Damien Aureau** (EPI team), December 3, 2021

"Reactivity of surfaces for functionalization"

**Muriel Bouttemy** (EPI team), May 5, 2021

"Metrology and methodology of physicochemical analysis of surfaces, interfaces, thin films and nanostructures"

**Elsa Anselmi** (SORG team), January 7, 2021

"Synthesis of fluorinated molecules"

**Guillaume Dagousset** (SORG team), December 9, 2020

"New developments in photoredox catalysis"

**Bruce Pegot** (SORG team), July 2, 2019

"Fluor and ionic liquids"