



# Yara ARBID

Chemist with expertise in water and air treatment

## Contact information

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**Date of birth:** 28/09/1995

## Languages

English – C2  
French – C1  
Arabic – Native

## Soft skills

Teamwork  
Leadership  
Quick learner  
Adaptation/integration

## Hobbies

Swimming  
Travelling  
Music  
Cinema

## References

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## Profile

I am an environmental chemist specialized in advanced oxidation processes for waste water treatment and green roof technology for air treatment. My research revolves around innovating waste water treatment techniques. I am recognized for my professionalism, teamwork spirit, and adaptability. My goal is to find sustainable solutions to environmental issues.

## Technical skills

- TOC meter
- Transmission Electron Microscopy (TEM)
- X-ray diffraction (XRD)
- Gas chromatography-mass spectrometry (GC-MS)
- High performance liquid chromatography (HPLC)

## Experience

**Postdoctoral researcher**, March 2022 - present, Ecole Nationale Supérieure de Chimie de Rennes, France in collaboration with Treewater, Lyon, France

- Wastewater treatment via Advanced Oxidation Processes.
- Testing the efficiencies of different iron sources in catalyzing the oxidative degradation of emerging pollutants + their metal adsorption capacity.
- Total Organic Carbon (TOC) analyses.
- Measurement of OH radical concentration.

**Doctoral researcher**, Oct 2018 - Dec 2021, Institut de chimie de Clermont Ferrand- Université Clermont Auvergne, France

- Setup development for plants uptake measurements.
- Green roof depollution capacity towards Nitrogen oxides (NO<sub>x</sub>) and Ozone (O<sub>3</sub>).
- Interactions of plant volatiles with pollutants and pesticides.

## Education

**Ph.D. in Analytical, Physical, and Theoretical Chemistry** Oct 2018 - Dec 2021, Université Clermont Auvergne, France

**Master 2 degree in Physical Chemistry-Materials and Catalysis (Rank 1/10)** 2017 - 2018, Lebanese University, Lebanon

**Master 1 degree in Environmental Chemistry** 2016 - 2017, Lebanese University, Lebanon

**Bachelor's degree in General Chemistry** 2013 - 2016, Lebanese University, Lebanon

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## Publications and conferences

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### Publications:

- Towards an experimental approach for measuring the removal of urban air pollutants by green roofs, **Build Environ.**, 2021 / Yara Arbid, Claire Richard, Mohamad Sleiman.
- Photochemical interactions between pesticides and plant volatiles, **Sci. Total Environ.**, 2021/ Yara Arbid, Mohamad Sleiman, Claire Richard.
- New Route to Toxic Nitro and Nitroso Products upon Irradiation of Micropollutant mixtures Containing Imidacloprid: Role of NO<sub>x</sub> and Effect of Natural Organic Matter, **Environ. Sci. Technol.**, 2020 / Davide Palma, Yara Arbid, Mohamad Sleiman, Pascal de Saint-Claire, Claire Richard.
- Aging and reactivity assessment of nanoscale zerovalent iron in groundwater systems, **Water Research.**, 2023 / Junmin Deng, Tao Chen, Yara Arbid, Mathieu Pasturel, Sungjun Bae, Khalil Hanna.

### Conferences:

- Oral presentation at the "20th European meeting on Environmental chemistry EMEC20" (2 Dec-5 Dec 2019/ Lodz- Poland).
- Oral presentation at the web conference SP2P "photonline des jeunes chercheurs" (15 Oct 2020).
- Oral presentation at the workshop "workshop on surface redox reactions; applications and recent advantages SURF2R" (11 Jul-13 Jul, Rennes- France).

## Awards

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Best oral presentation at EMEC20, Poland, 5 Dec 2019.