

Lorraine YOUSSEF (1992).

Nationality: Lebanese

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FORMATIONS

July 2010 Baccalaureate in Life Sciences (Very Good): College of Sœurs des Saints Cœurs, LEBANON.

July 2013 Bachelor in General Chemistry (Very Good) : Lebanese University, Faculty of Sciences II, Fanar-LEBANON (Ranking 1/143).

July 2014 Master 1 in Physical Chemistry and Chemistry of Materials (Very Good) : Lebanese University, Faculty of Sciences II, Fanar-LEBANON (Ranking 1/27).

December 2014 Diploma of DELF-B2 in French language: French Institute of Jounieh- LEBANON.

January 2015 Research Master 2 in Physical Chemistry of Materials (Very Good) : Lebanese University, Faculty of Sciences II, Fanar-LEBANON (Ranking 1/8).

February-July 2015 Research internship: 'Hydrogen generation by hydrolysis of magnesium and magnesium hydrides powders synthesized by energetic ball milling' (with Pr. Mirvat ZAKHOUR) in the Laboratory of Physical Chemistry of Materials in collaboration with the Platform of Research in Nanosciences (LCPM/PR2N) in Lebanese University, Fanar-LEBANON (Grade: 85/100).

September 2015 AZM/UL foundation Excellence scholarship for PhD thesis complete financial (september 2015-september 2018). The scholarship is a PhD student fees funding and a project funding to transfer the Plasma Technology for the first time from Montpellier to Beirut.

October 2015 - December 2015 Beginning of the PhD thesis 'Development by Plasma processes of multilayered assemblies membrane/electrodes for hydrogen generation/separation by solar energy' under joint supervision between the Laboratory of Physical Chemistry of Materials in collaboration with the Platform of Research in Nanosciences (LCPM/PR2N) in Lebanese University, Fanar-LEBANON and the European Membrane Institute (IEM) in University of Montpellier-FRANCE. A detailed bibliography report was written during the three months.

January - June 2016 Six months stay in IEM, Montpellier to work on the 'Optimization of TiO₂ thin layers on silicon substrates by low frequency Plasma Enhanced Chemical Vapor Deposition process'. The films were then doped by ammonia and deposited on porous glass.

July – September 2016 Characterizations of the N-doped TiO₂ thin films (XRD, FT-IR, Raman, AFM) in LCPM/PR2N, Beirut-LEBANON.

October 2016-June 2017 Nine months stay in IEM, Montpellier to complete the N-TiO₂ characterizations, to synthesize the platinum/carbon cathode by Plasma Sputtering and to test the electrodes in a standard photo-electrochemical cell (Hydrogen and current yields evaluations).

SCIENTIFIC PRODUCTIONS

April 2017 Publication on the 'Optimization of N-doped TiO₂ Multifunctional Thin Layers by Low Frequency PECVD Process for Water Splitting' by Loraine YOUSSEF, Arnaud Joël KINFACK LEOGA, Stéphanie ROUALDES, Joëlle BASSIL, Mirvat ZAKHOUR, Vincent ROUESSAC, André AYRAL, Michel NAKHL, in the Journal of European Ceramic Society.

COMPLEMENTARY SCIENTIFIC PARTICIPATIONS AND AWARDS

July 2013 Lebanese University Excellence Award for 1/143 ranking in General Chemistry bachelor diploma (Fanar section-LEBANON).

July 2015 Lebanese University Excellence Award for 1/8 ranking in Physical Chemistry of Materials Research Masters diploma (Fanar section-LEBANON).

October 2015 Attendance of the '3rd International Journées Franco-Libanaises' held in Hadath-LEBANON.

March 2016 Doctoriales[®] of Sète (South of France) and first Prize for the "Professional Insertion" title.

May 2016 Oral communication on "The development by Low-Frequency PECVD process of multifunctional TiO₂ thin layers for water photoelectrolysis by solar energy" in the Second PhD students Day (IEM, Montpellier-FRANCE).

June 2016 Conference attendance and poster 'Innovative N-doped TiO₂ photocatalytic layer integrated in a plasma multi-layered system for Hydrogen production from water' during the 9th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications) held in Strasbourg, FRANCE.

July 2016 'RAMAN spectroscopy characterizat on technique' complementary formation held in Lebanese University (Fanar campus) by Pr. Roland HABCHI.

January 2016-April 2017 Attendance of 15 different seminars organized by Doctorate School of Sciences Chimiques Balard and Pôle Chimie Balard, Montpellier-FRANCE. The different subjects were spectroscopy techniques, electrochemistry, environmental applications and organic synthesis.

November 2016 Attendance and oral communication 'Development by low frequency PECVD process of N-doped TiO₂ thin films for water photo-oxidation by solar energy' in 26^{ème} Journée de Chimie Grand Sud-Ouest (GSO) held in Bordeaux, FRANCE.

December 2016 Attendance and oral communication 'Development by low frequency PECVD process of N-doped TiO₂ thin films for water photo-oxidation by solar energy' in Journées de l'École Doctorale Sciences Chimiques Balard (ED459) held in Montpellier, FRANCE.

May 2017 Oral communication 'Development by Low-Frequency Plasma Enhanced Chemical Vapor Deposition (PECVD) process of Nitrogen-doped TiO₂ Thin Films for Water Photo-oxidation by Solar Energy and their integration in a Standard Photo-electrochemical cell for Hydrogen Generation' in the Third PhD students Day held in IEM, Montpellier-FRANCE.

May 2017 Oral communication 'Development of Low-Frequency Plasma Enhanced Chemical Vapor Deposition (PECVD) Nitrogen-doped TiO₂ and Plasma Sputtering Pt/C Thin Films for Water Photo-oxidation by Solar Energy and their integration in a Standard Photo-electrochemical cell for Hydrogen Generation' in the international conference 'European Materials Research Society' held in Strasbourg, FRANCE (22-26 May 2017).

June 2017 Oral communication 'Development of Low-Frequency Plasma Enhanced Chemical Vapor Deposition (PECVD) Nitrogen-doped TiO₂ and Plasma Sputtering Pt/C Thin Films for Water Photo-oxidation by Solar Energy and their integration in a Standard Photo-electrochemical cell for Hydrogen Generation' in the Research Group (GDR-Solar Fuels) national colloquium held in Autrans, Grenoble-Rhône Alpes, FRANCE (29 May-1 June 2017).

FOREIGN LANGUAGES

English: Excellent.

French: Excellent.

Spanish: standard

PROFESSIONS AND CAREERS

2006-2016: Private tutoring for elementary and secondary classes (scientific and humanities).

July 2013-February 2014 : EDUCATIONAL RESEARCH CENTER (Lebanese Ministry of Education).
Question writer and educational coach: school professors training to transmit the information easily to the students and writing exams questions that requires more logic than memorizing.

HOBBIES, INTERESTS

Swimming, sports, painting, traveling.
