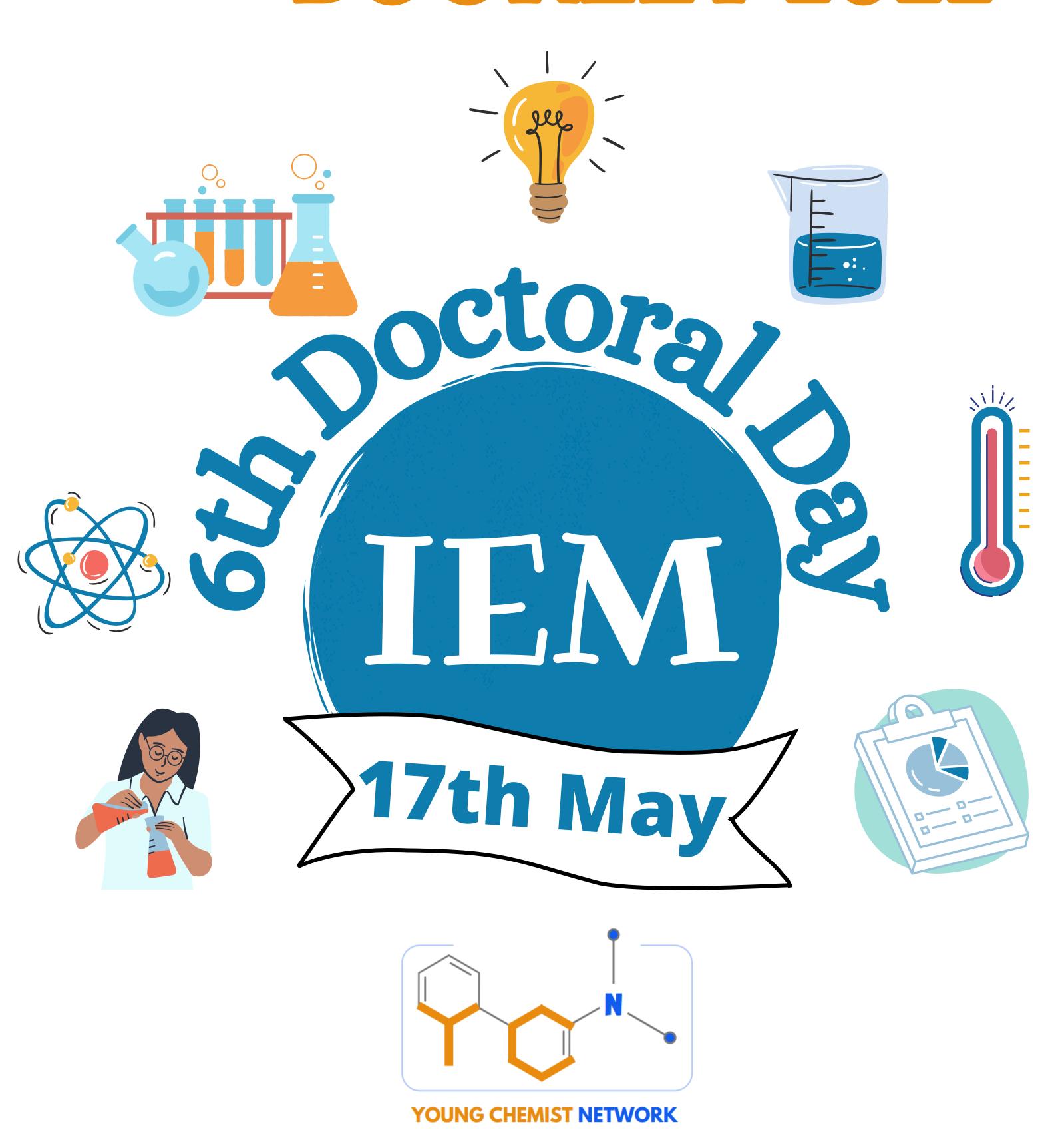
PhD STUDENTS BOOKLET 2022



Introduction

Purposes

The 6th Doctoral Day has three main goals:

- \rightarrow Enable PhD students to present their research work to the IEM members.
- → Make master students aspire to a PhD and discover all the research thematics approached at the IEM
- → Gather all IEM around a scientific day through presentations, video, posters and convivial moments

This day gives to the PhD students the opportunity to add value to their project, to share their skills, especially their different laboratory technics, and to lead their project to a constructive discussion about their work evolution. The master students will be able, for their part, to discover the work type's diversity and to refine their professional project. It is also the occasion for all the personnel of IEM to share and discuss around science.

Organization

The event takes place in the IEM's hall and conference room. All the institute members are invited, since the success of this day strongly depend on their presence and their involvement in the diverse discussions.

The day has been divided into four sessions. While the latter, first and third year PhD students will present their project and show their work advancement through oral presentations. During the breaks multiple poster sessions will be held by second year PhD students in which you are invited to discuss with the students regarding their work.

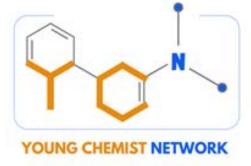
Besides, former PhD students of IEM will give speeches to present how the felt about their PhD experience and what they have been doing since the end of their PhD thesis. Also, our guest speaker François Zaviska will hold a presentation about how to make a relevant communication and a video presenting engineers, post doc and technicians of the lab will be broadcasted. Finally, the day will end on the award of the three best performances (i.e. oral presentation, poster, and 180 seconds communication) followed by an afterwork on the doorstep of IEM.

Acknowledgements

YCN association acknowledges the direction of IEM for the technical and financial organization of this day. Finally, we thank all adherents of the association for allowing us to organize such gathering occasions and hope to meet you very soon for our next events...

Have a nice day!













Program

8h30: Welcoming with coffee and

croissant

9h00: Introduction by the laboratory

and YCN association

9h15: Guest speaker

YOUSSEF Laurene

former doctoral student of DM3 team **9h30:** Presentations of 1st and 3rd year

PhD students

AGUILAR Daniel (1A)

CERVANTES DIAZ Karla Begonia (3A)

AUDOURENC Jules (1A)

DAAKOUR Sanaa (3A)

BADOURIC Lucie (1A)

DUQUET Fanny (3A)

DORY Hippolyte (1A)

10h15: Coffee break and Poster

session for 2nd year PhD students

10h45: Guest speaker

ZAVISKA François

« How to make a relevant communication »

11h15: Guest speaker:

FRIEDRICH ESMILAIRE Roseline

former PhD student of the IP2 team

11h30: Presentations of 1st and 3rd

year PhD students

EL HAYEK Joelle (3A)

JAYAKUMAR Sharath (1A)

REN Feihong (3A)

LIBERATI Ariella (1A)

12h00: Bo&Co lunch break with Poster session for 2nd year PhD students

14h00: Guest speaker

WITTMANN Erich

former PhD student of DM3/IP2/GPM

teams

14h15: Presentations of 1st and 3rd year

PhD students

PIRKIN-BENAMEUR Johanne (1A)

SANCHEZ Lucie (3A)

LEBESGUE Charlotte (1A)

SU Dan Dan (3A)

ROHITKUMAR Jadhav (1A)

14h45: Video presentation of engineers

and post-doctoral fellows

15h00: Coffee break and Poster session

for 2nd year PhD students

15h30: Guest speaker

RIES Lucie

former doctoral student of DM3 team

15h45: Presentations of 1st and 3rd year

PhD students

TANOS Fida (3A)

SEABRA Ivna (1A)

WANG Wensen (3A)

SZEWCZYK Jakub (1A)

WU Huali (3A)

16h15: Discussion and questions

with Guest speakers

16h30: Jury Awards

17h00: Afterwork

Summary

Guest speakers

FRIEDRICH ESMILAIRE Roseline

RIES Lucie

WITTMANN Erich

YOUSSEF Laurène

1A

ADOURENC Jules LEBESGUE Charlotte

AGUILAR FERRER Daniel LIBERATI Ariella

BADOURIC Lucie PIRKIN-BENAMEUR Johanne

BALDO Héloïse ROHITKUMAR Jadhav

DORY Hippolyte SEABRA Ivna

JAYAKUMAR Sharath SZEWCZYK Jakub

2A

ABID Mahmoud LIU Jiefeng

ANDREI Iuliana-Marilena MAKHOUL Elissa

BOUE Jean-Félix MEYER Nathan

CASETTA Jeanne MOULIA Vincent

FROMAGER Bénédicte NURSIAH Kelvinraj

GOMRI Chaimaa TAUK Myriam

LECLERE Maxime

3A

CERVANTES DIAZ Karla Begonia SANCHEZ Lucie

DAAKOUR Sanaa SU Dan-Dan

DUQUET Fanny TANOS Fida

EL HAYEK Joelle WANG Wensen

KARAMOKO Bonito WU Huali

REN Feihong

FRIEDRICH ESMILAIRE Roseline



Water treatment

IP2

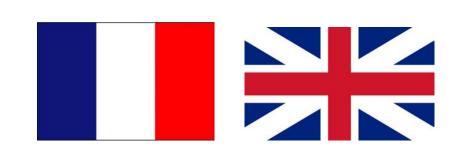
Electrochemical Advanced
Oxidation Process using substoichiometric titanium oxide
as anode





17/11/2017

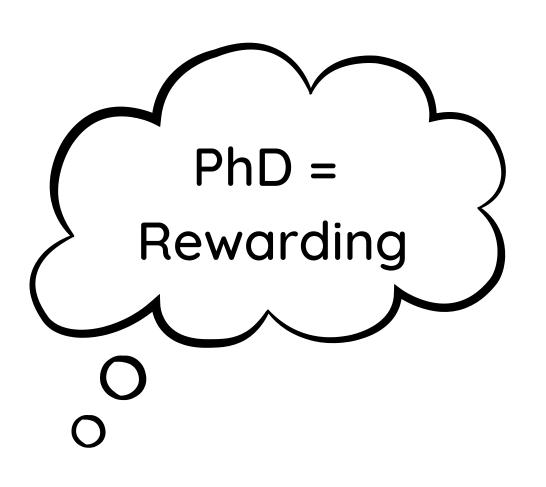
Pr. Marc Cretin





Favourite Food







Hobby





RIES Lucie

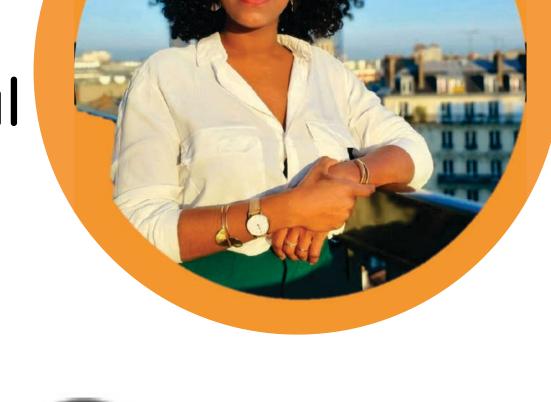


Water treatment

DM3

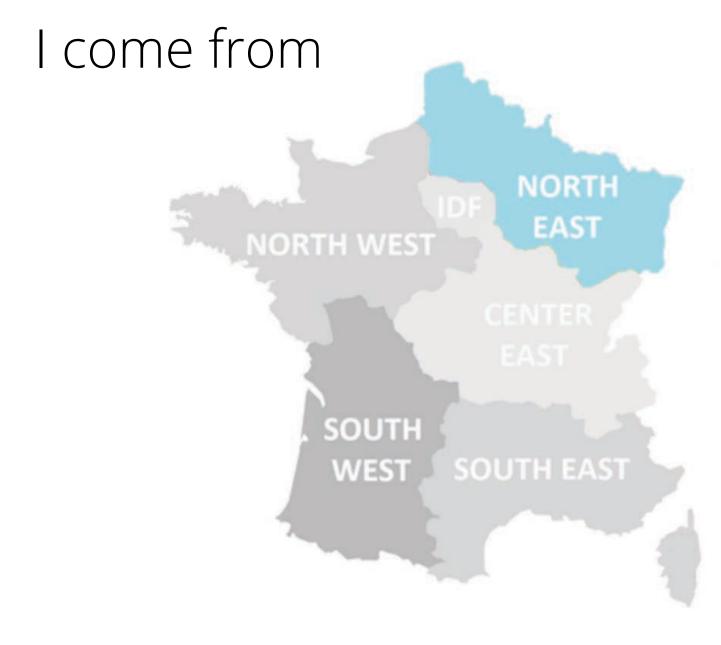
Functionalized two-dimensional (2D) MoS2 nanosheets as building blocks for water purification membranes















Favourite Food



Hobby

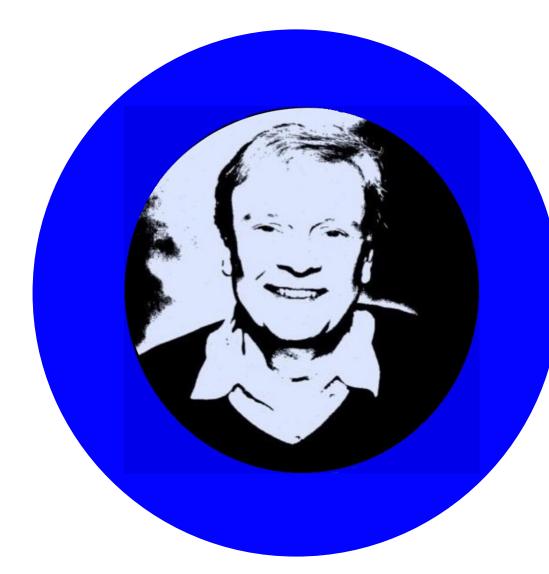


WITTMANN Erich

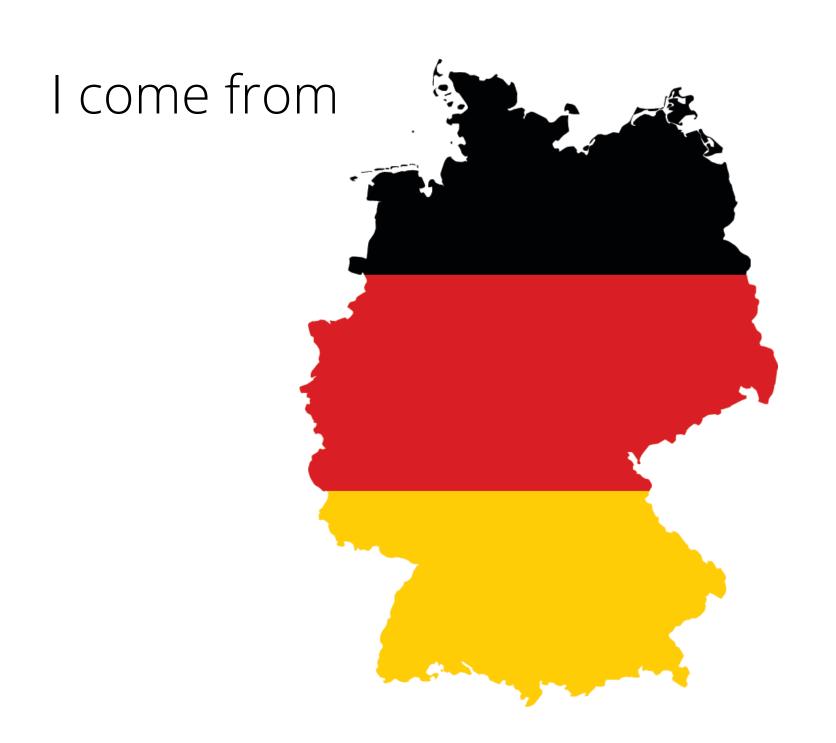


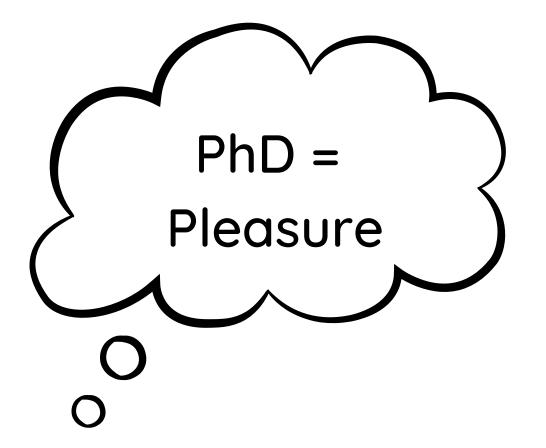
Water treatment DM3
IP2
GPM

Nanofiltration in water treatment: Application conditions and modelling



Dr. José Sanchez









Favourite Food



Hobby



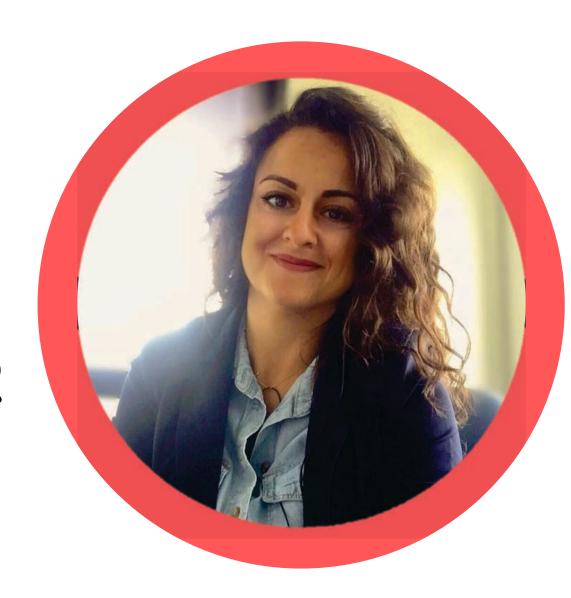
YOUSSEF Laurène



Energy

DM3

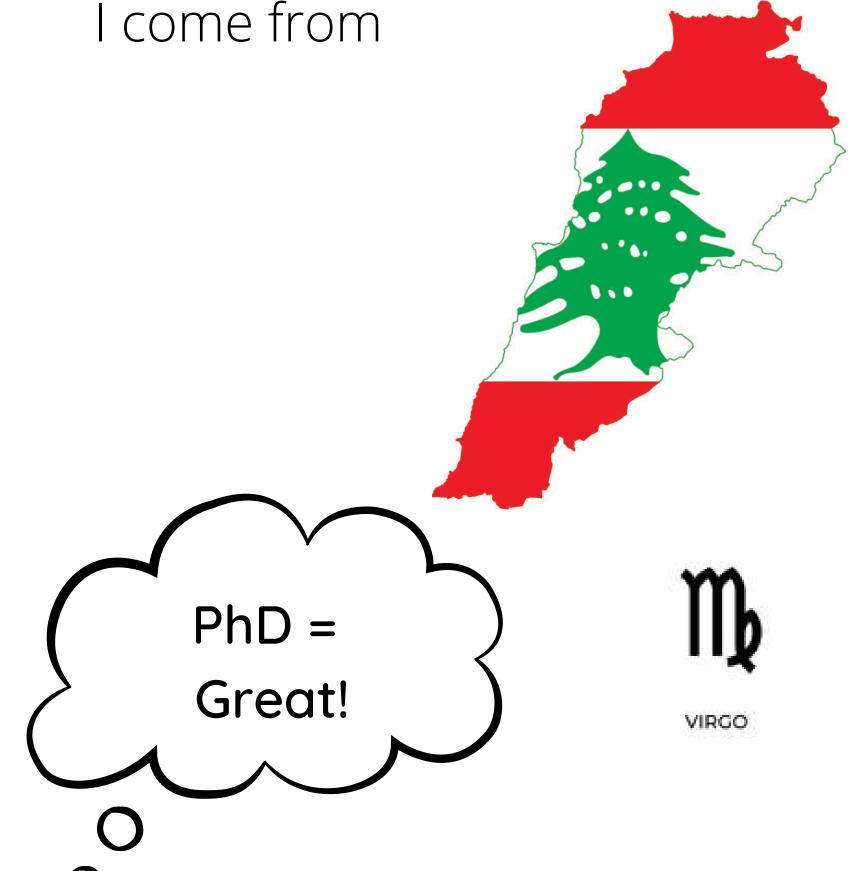
Development by plasma processes of TiO2 and N-TiO2 thin films for hydrogen production by water photoelectrolysis under solar light

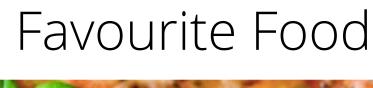














Hobby



AUDOURENCJules



Water treatment

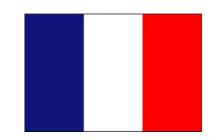
IP2

Development of new hydrophilic biosourced membranes for microfiltration

Dr. Suming Li



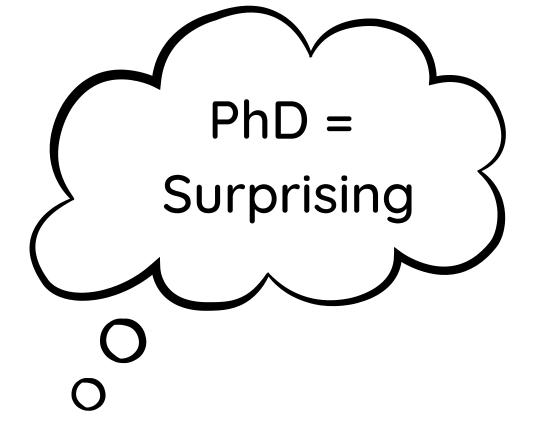
25 years old













Favourite Food



Hobby



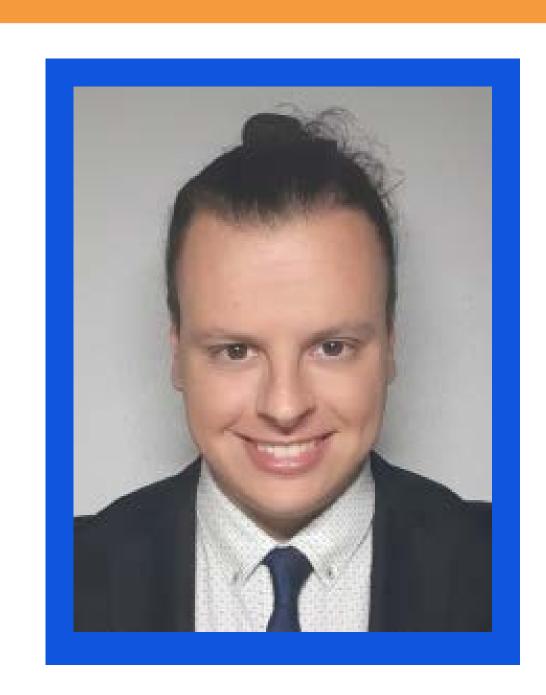
AGUILAR FERRER Daniel



Energy

DM3

Understanding the interface between semiconductors and PDA toward photocatalytic water splitting



27 years old





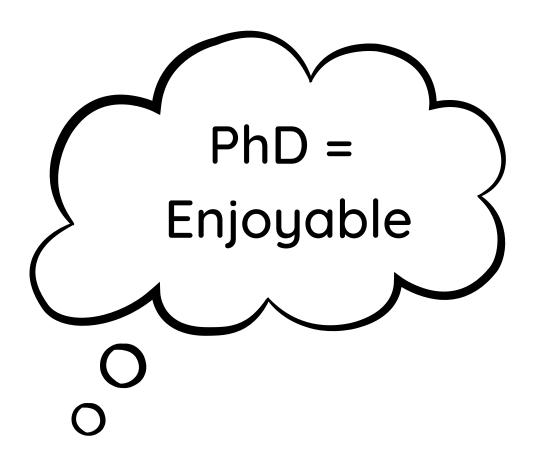
Dr. Mikhael Bechelany



Favourite Food



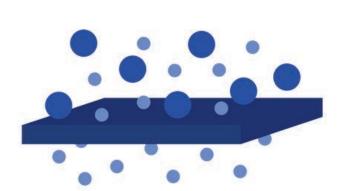
Hobby







BADOURIC Lucie



Gas separation

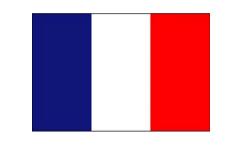
DM3

Atomic Layer Deposition for novel hydrogen separation membranes



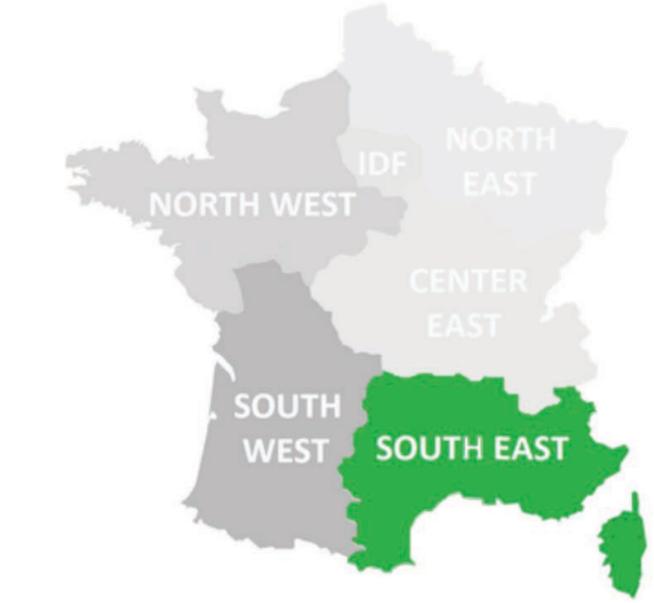
Dr. Mikhael Bechelany Dr. Anne Julbe Dr. Martin Drobek

23 years old





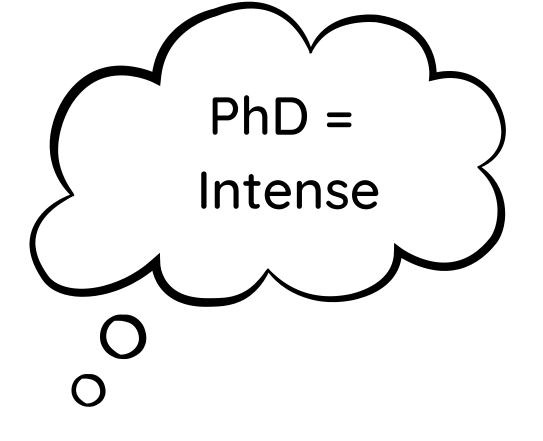




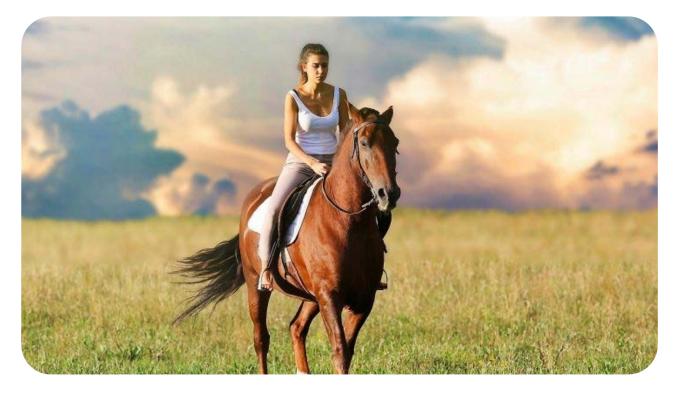
Favourite Food



Hobby







BALDO Héloïse



Environment methane valorisation

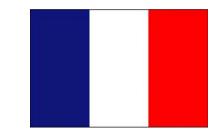
GPM

An eco-efficient bioprocess for direct conversion of methane into methanol



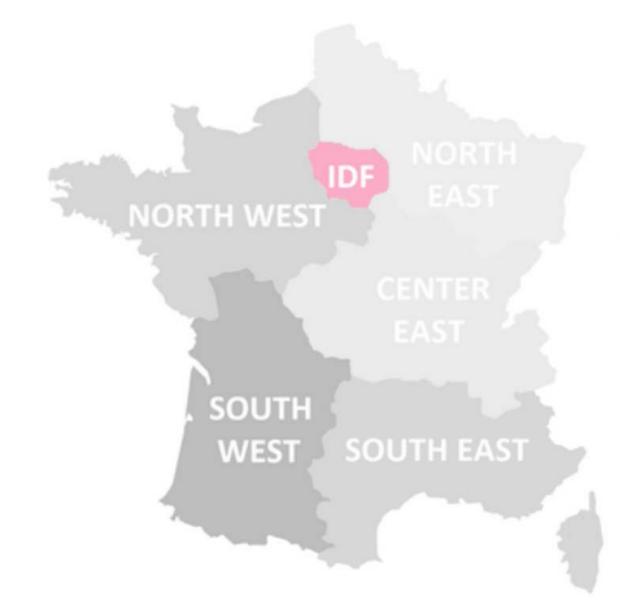
Dr. Laurence Soussan















Favourite Food



Hobby



DORY Hippolyte



Water treatment

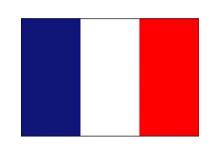
DM3

Elaboration of ceramic membranes for wastewater treatment via 3D printing

Pr. Philippe Miele Dr. Chrystelle Salameh



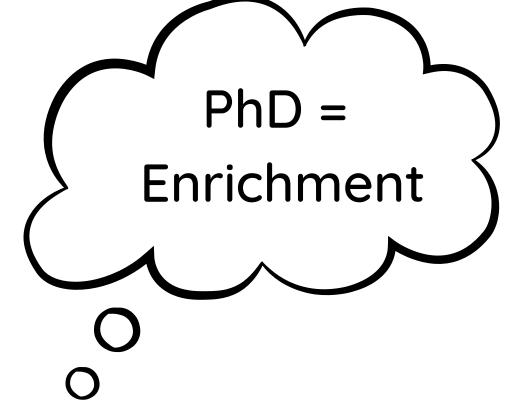
27 years old













Favourite Food



Hobby



JAYAKUMAR Sharath



Water treatment

DM3

Hydrophobic Ceramic Capillary membranes applied for desalination and oil removal

Dr. Mihail Barbiou



24 years old

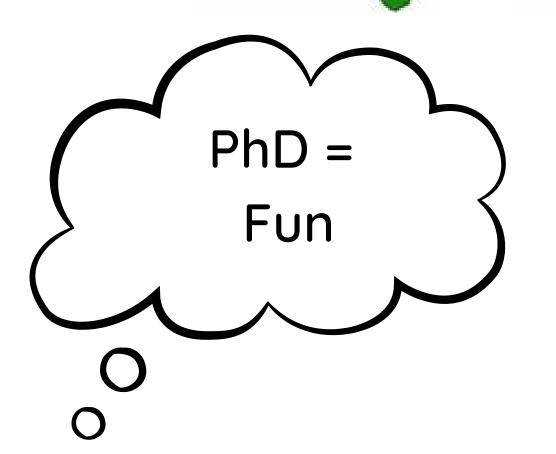




Favourite Food



Hobby





LEO



LEBESGUE Charlotte



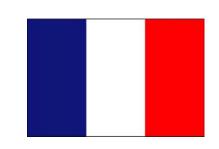
Water treatment DM3
IP2

Development of electroactive ultrafiltration membranes for water treatment

Dr. Marc Cretin



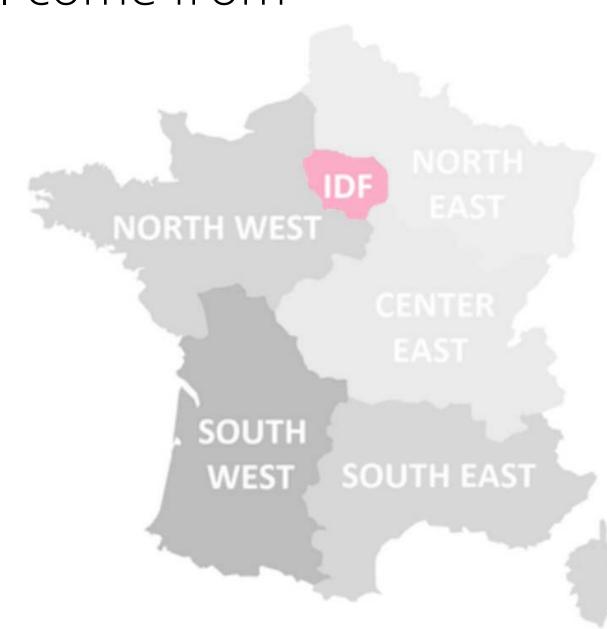
27 years old

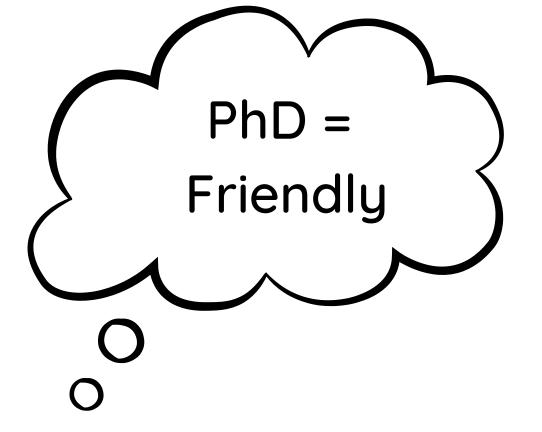






I come from







Favourite Food



Hobby



LIBERATI Ariella



Recycling

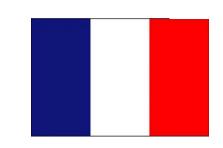
GPM

Recovery of Lithium with smart polymers



23 years old

Dr. Catherine Faur Jean Pierre-Merica







I come from



Favourite Food



Hobby

PhD = A socially and scientifically intense experience that is totally worth living



LEO



PIRKIN-BENAMEUR Johanne 1A



Water treatment

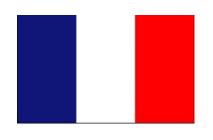
IP2

Self-oscillating membrane development for wastewater treatment

Dr. Damien Quémener



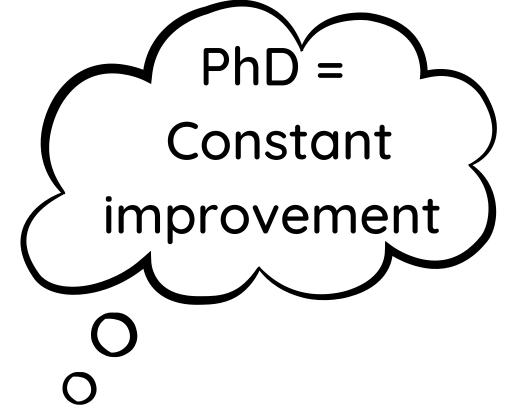
23 years old





I come from







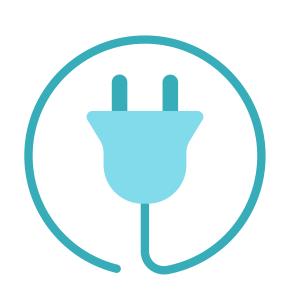
Favourite Food



Hobby



ROHITKUMAR Jadhav

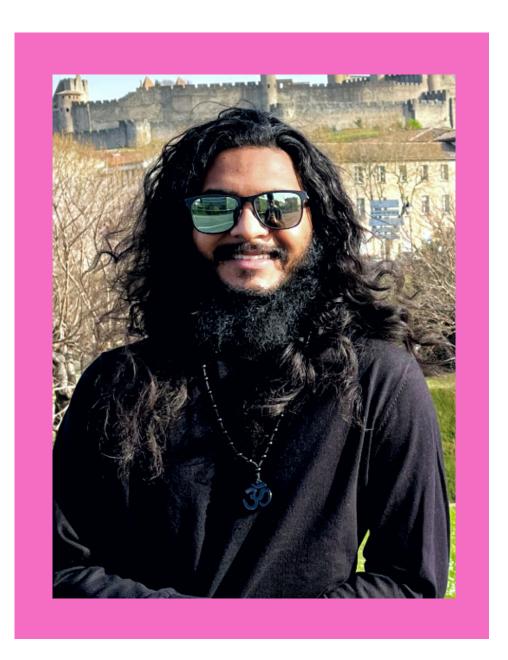


Energy

DM3

2-D - 3-D Mixed dimensional halide perovskites for photo-electrocatalytic reduction of CO2

Dr. Damien Voiry



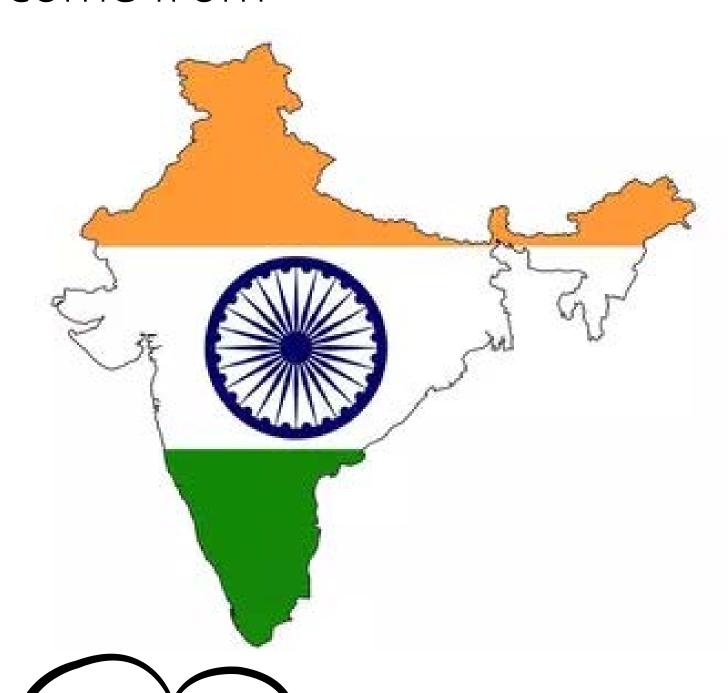
25 years old



I come from

PhD =

Exciting



Ω

LIBRA

Favourite Food



Hobby





Water treatment

GPM

Treatment of effluent micropollutants by ozonation and nanofiltration



27 years old



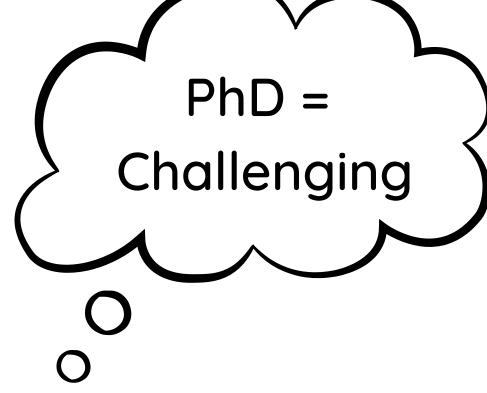
Dr. Stephan Brosillon



Favourite Food



Hobby







SZEWCZYK Jakub

Energy

DM3

Development and characterization of biomimetic polymer/semiconductor laminar heterojunctions for efficient photocatalytic water splitting



25 years old





Dr. Mikhael Bechelany Dr. Emerson Cory

Favourite Food







Hobby



ABID Mahmoud



Water treatment

DM3

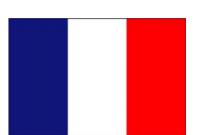
Design of halloysite-based nanocomposites for water treatment



28 years old

Dr. Mikhael Bechelany

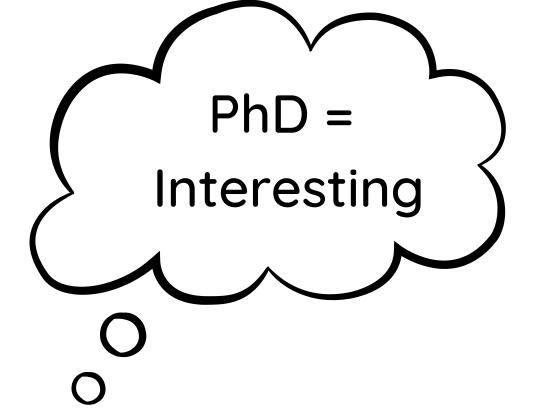






I come from







Favourite Food



Hobby



ANDREI Iuliana-Marilena



Water treatment

DM3

Biomimetic artificial water and proton channels

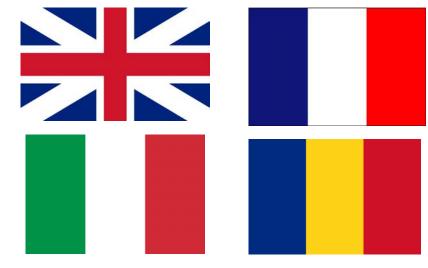
Dr. Mihail Barboiu





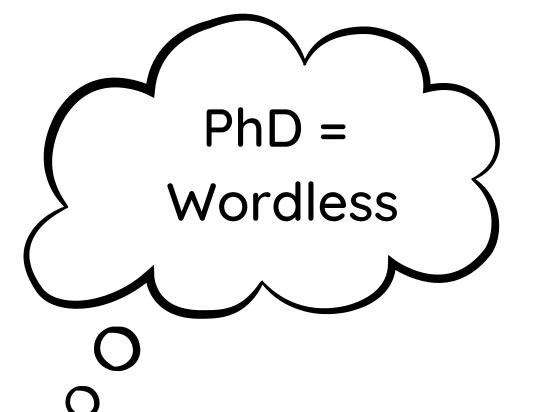


26 years old



Favourite Food





LIBRA



Hobby



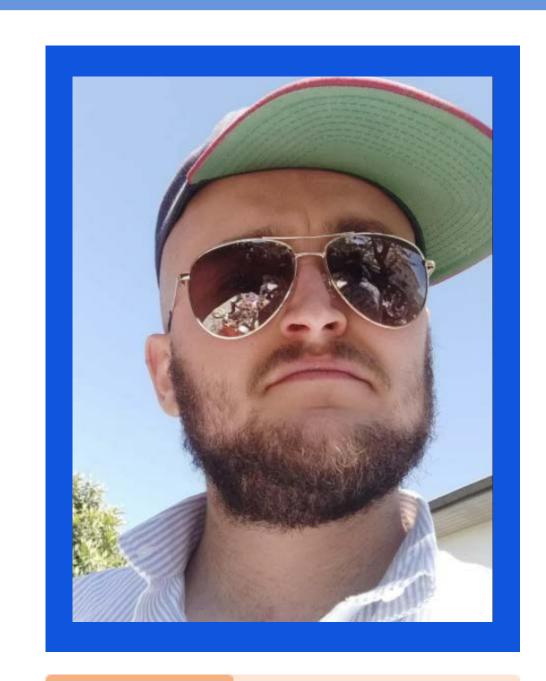
BOUE Jean-Félix



Energy

DM3

Nanostructured electrodes for H2 production



25 years old

Dr. Julien Cambedouzou







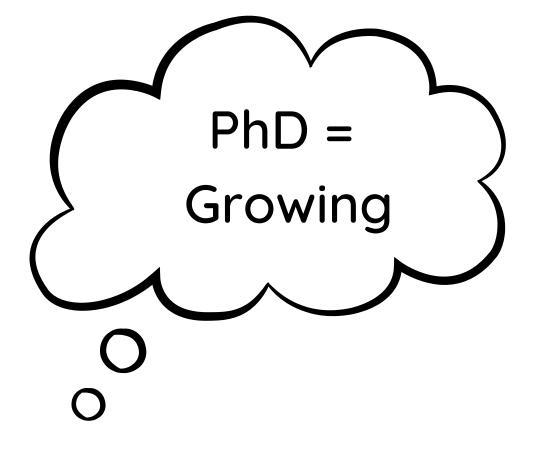




Favourite Food



Hobby





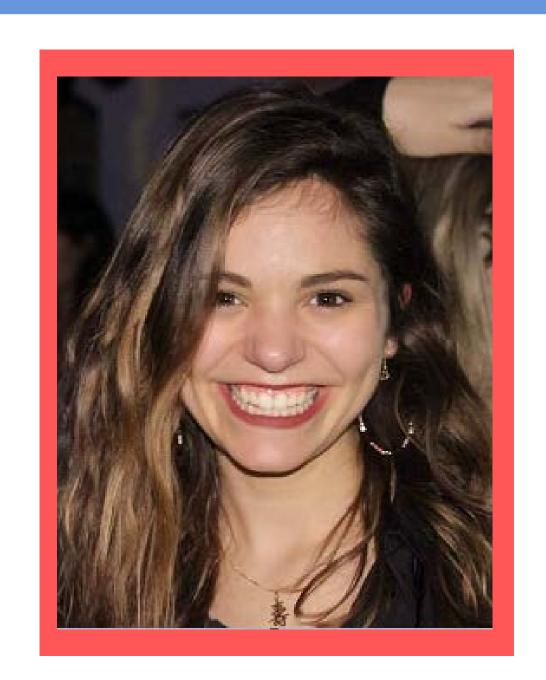


CASETTA Jeanne



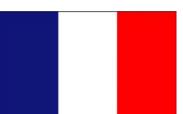
Water treatment DM3 IP2

Synthesis of novel polymeric hollow fibers and modification of their surface for water treatment application



24 years old

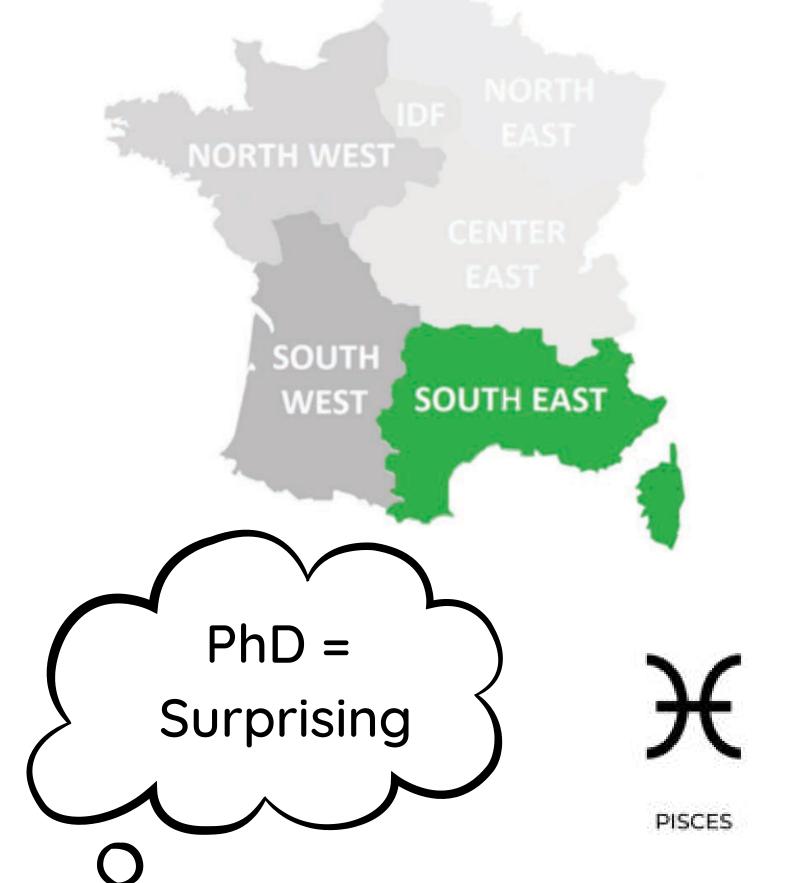






Pr. Philippe Miele Dr. Céline Pochat-Bohatier Dr. Mikhael Bechelany

come from



Favourite Food



Hobby



FROMAGER Bénédicte



Health

DM3

3D scaffold of PAN electrospun fiber for cell culture

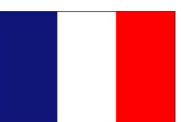
Dr. Julien Cambedouzou Pr. David Cornu

I come from



26 years old









Favourite Food



Hobby





LEO



GOMRI Chaimaa



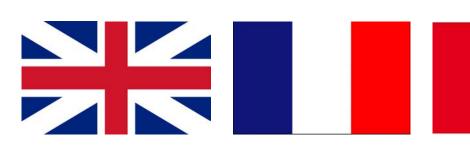
Water treatment

IP2

Design and synthesis of new composite membranes for the treatment of perfluoroalkyls and polyfluoroalkyls (PFAS)



28 years old



Dr. Mona Semsarilar Pr. Marc Cretin







PhD = Wonderful



Favourite Food



Hobby



LECLERE Maxime



Health

DM3

Anti-biofouling nanomembrane for drug delivery

Dr. Mihail Barboiu Dr. Sophie Cerneaux



28 years old



I come from





Favourite Food

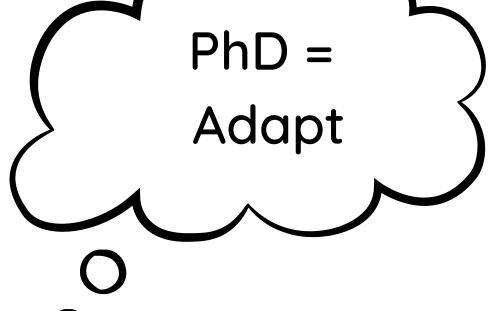
Hobby



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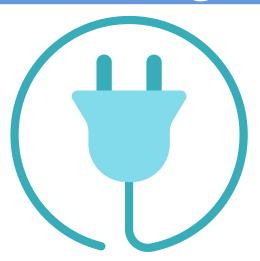
LIBRA





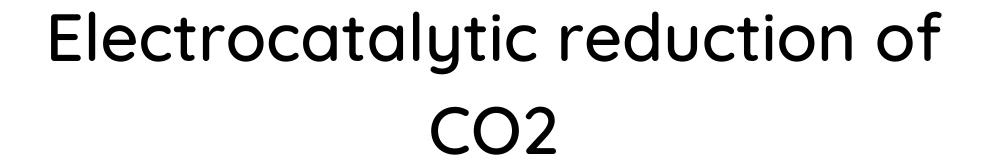


LIU Jiefeng



Energy

DM3







27 years old





I come from



PhD =
Challenging



Favourite Food



Hobby



MAKHOUL Elissa



Water treatment

DM3

Biomimetic artificial water and proton channels



24 years old







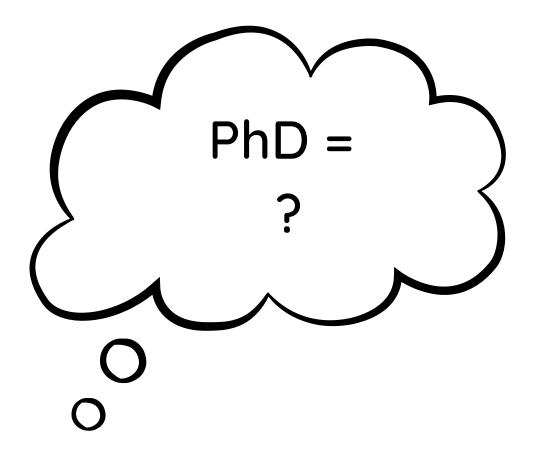
Pr. David Cornu



Favourite Food



Hobby







MEYER Nathan



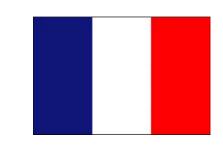
Health

DM3

Study of the assembly dynamics of AB42 peptide by solid nanopore



25 years old



Dr. Sébastien Balme



PhD = Innovation



Favourite Food



Hobby



MOULIA Vincent



Water treatment

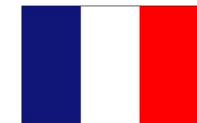
GPM

Fate of contaminants and microbiome along treated wastewater/irrigation system/ soil continuum



25 years old





Dr. Marc Heran Dr. Nassim Ait-Mouheb

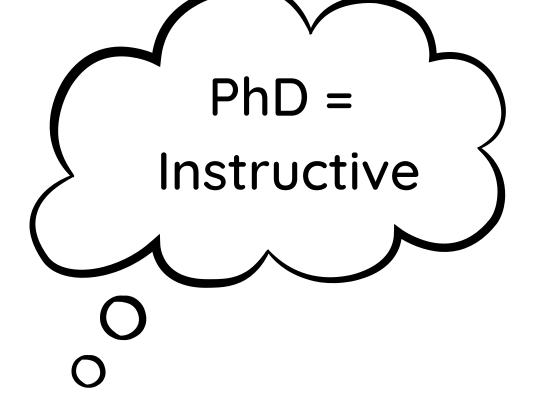




Favourite Food











NURSIAH Kelvinraj



Water treatment

DM3







30 years old











PhD =
Management



Hobby



TAUK Myriam



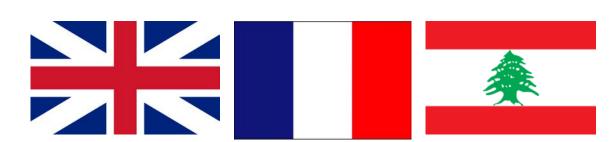
Water treatment DM3
GPM

IP2

Tuning, evaluation, and optimization of an electrochemical desalination process by flow capacitive deionization: from the material aspect to the process aspect

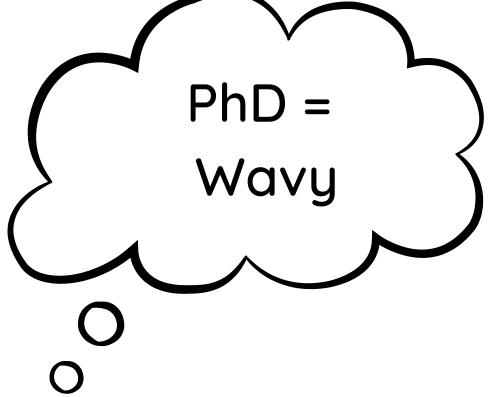


24 years old



Dr. Marc Cretin





S

Favourite Food



Hobby



CERVANTES DIAZ Karla Begonia 3A



Water treatment

DM3

Design of mesoporous SIC membranes from polymeric precursors for water filtration



30 years old

Dr. Julien Cambedouzou



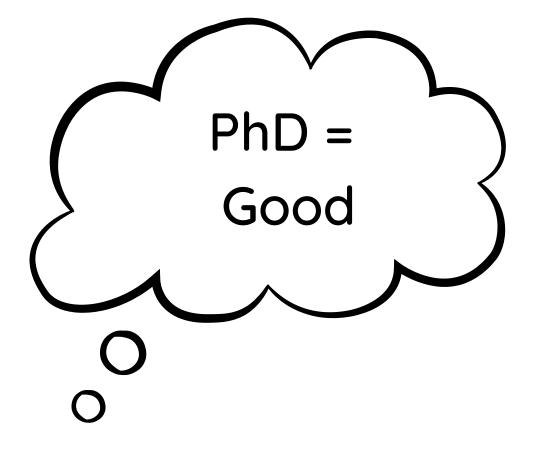




Favourite Food



Hobby







DAAKOUR Sanaa



Health

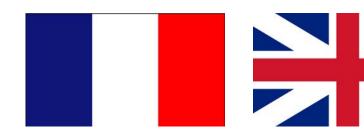
DM3

Dynamic dendrimer-liposome system for transport and active channels



26 years old

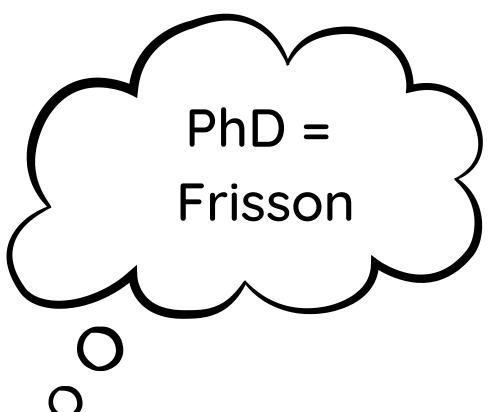
Dr. Mihail Barboiu Pr. Gihane Nasr





Favourite Food





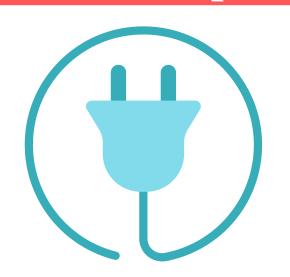




Hobby



DUQUET Fanny



Energy

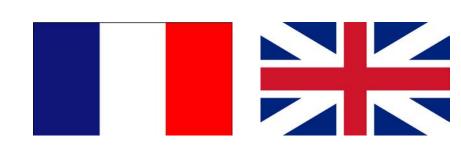
DM3

Modified Titanium oxide for hydrogen production by photoelectrocatalysis

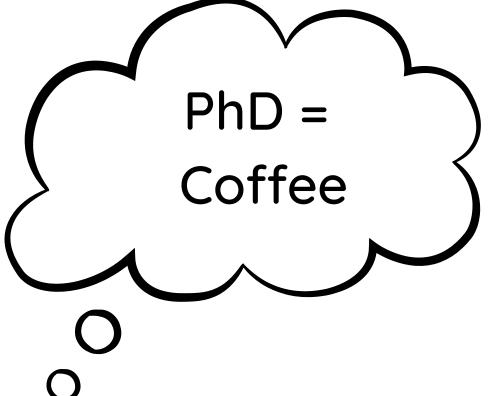
Dr. Stéphanie Roualdès



27 years old









Favourite Food



Hobby



EL HAYEK Joelle



Health

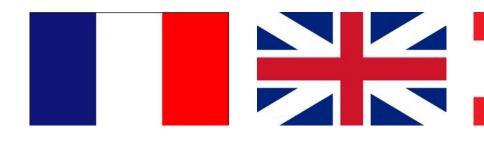
DM3

Synthesis, functionalization and 3D printing of bioceramics for bone engineering



25 years old

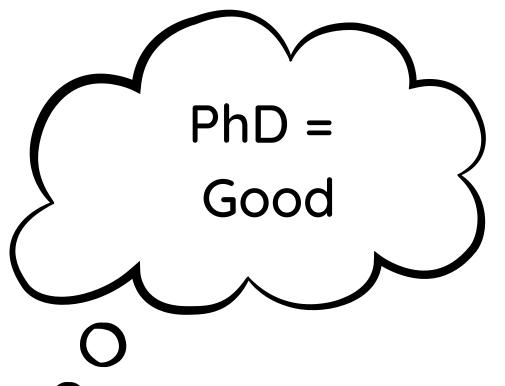
Pr. Philippe Miele





Hobby











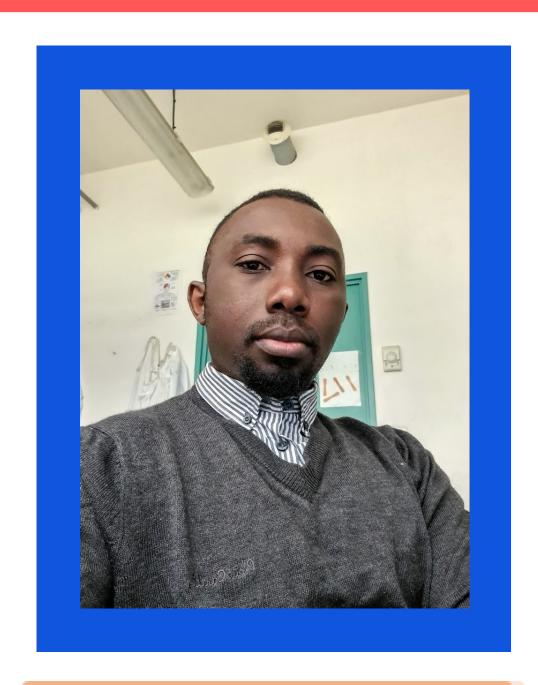
KARAMOKO Bonito



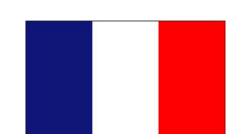
Energy

DM3

Exfoliated 2D polymer/material nano-composite membranes obtained by Pickering emulsion



30 years old



Pr. Philippe Miele

I come from



Favourite Food



Hobby







REN Feihong



Energy

IP2

The study of Raman spectroscopy on Lithium metal batteries

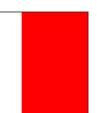


28 years old

Dr. Stefano Deabate

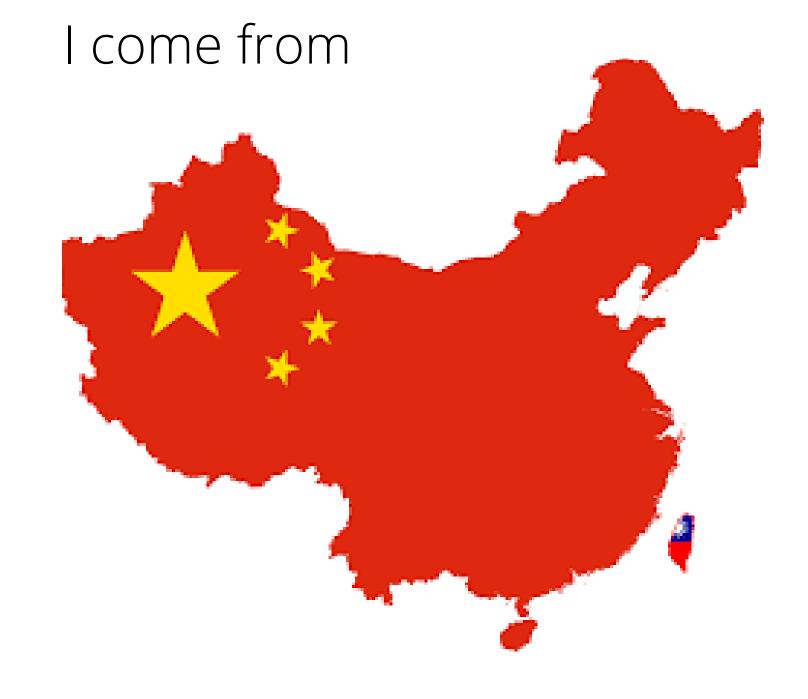






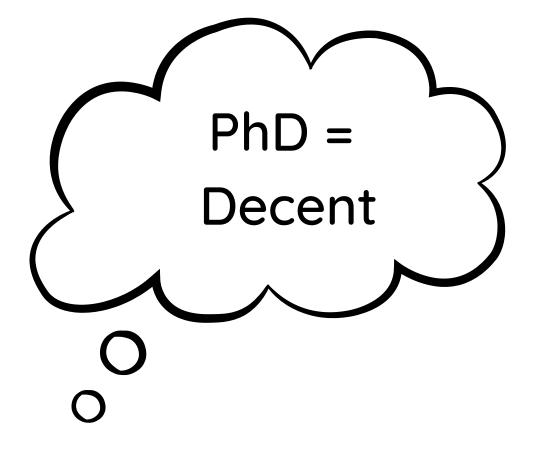








Hobby







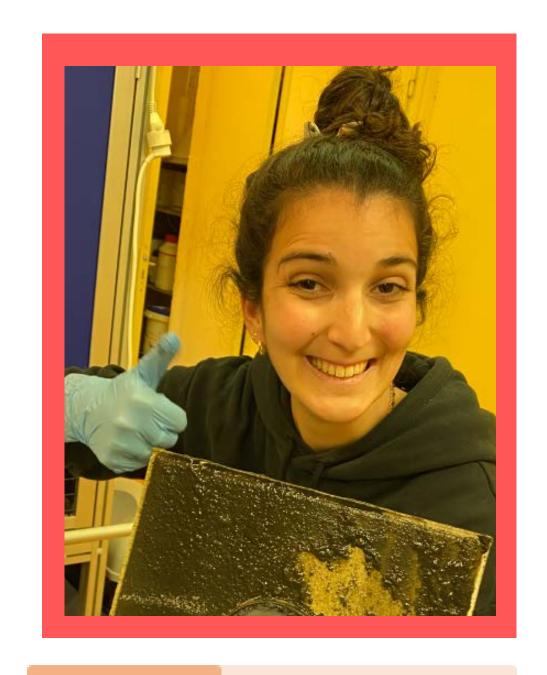
SANCHEZ Lucie



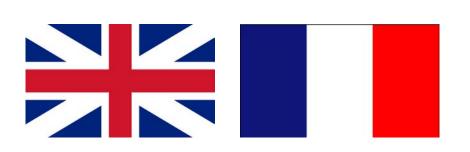
Water treatment

GPM

Positive energy domestic wastewater treatment by Granular Anaerobic



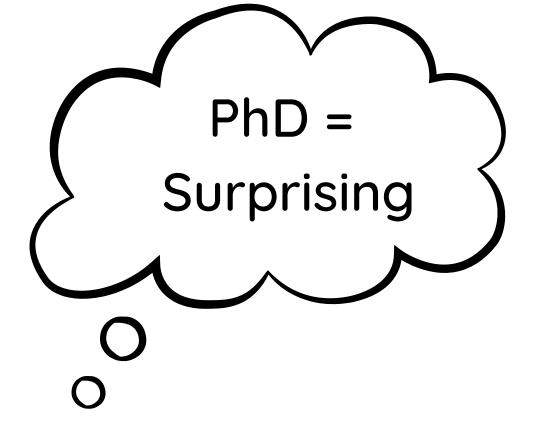
25 years old



Pr. Marc Héran

I come from







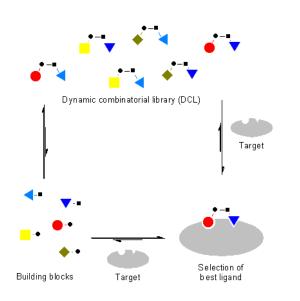
Favourite Food



Hobby



SU Dan-Dan



Constitutional
Dynamic
Chemistry

DM3

Dynamic covalent systems for bio-recognition: gene delivery, enzyme activation, active channels/carriers



28 years old





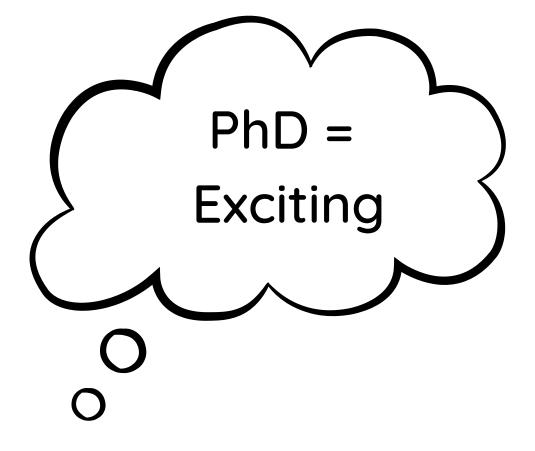
Dr. Mihail Barboiu



Favourite Food



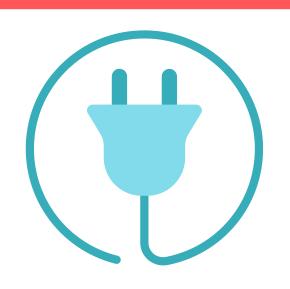
Hobby







TANOS Fida



Energy

DM3

Oxide-based nanomaterials for photoelectrocatalytic water treatment



25 years old

Pr. Marc Cretin

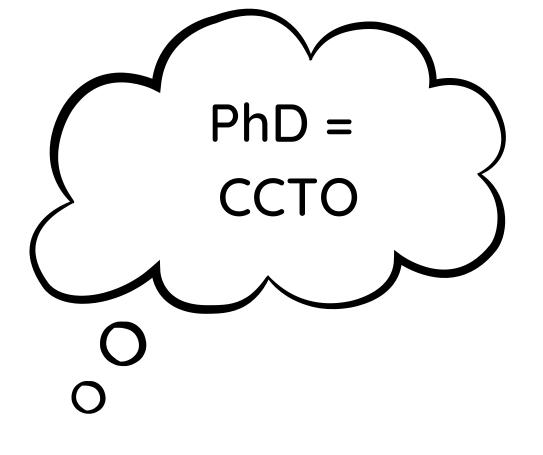




Favourite Food



Hobby







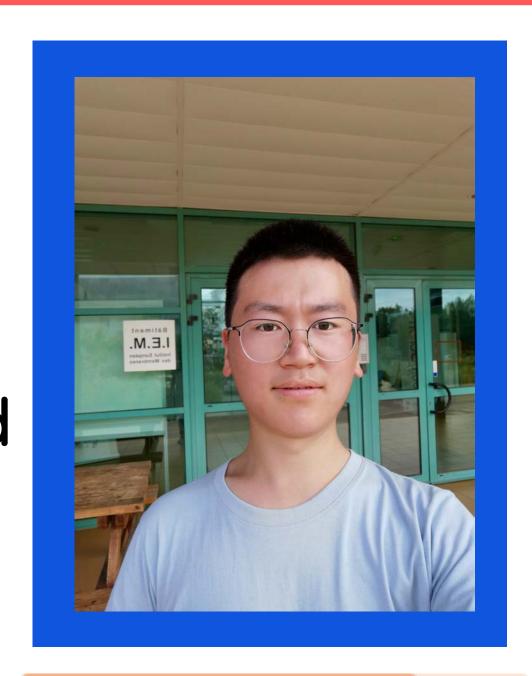
WANG Wensen



Water treatment

DM3

Investigations of nanolaminated membranes for gas separation and water purification



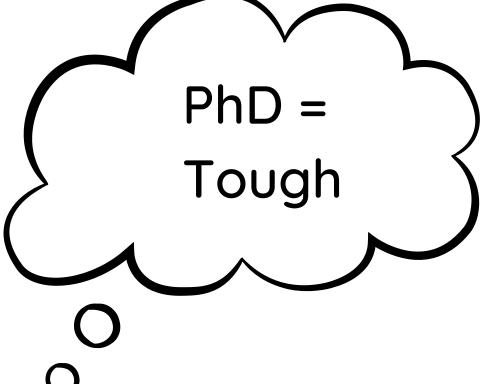
28 years old





Pr. Philippe Miele Dr. Damien Voiry







Favourite Food



Hobby



WU Huali

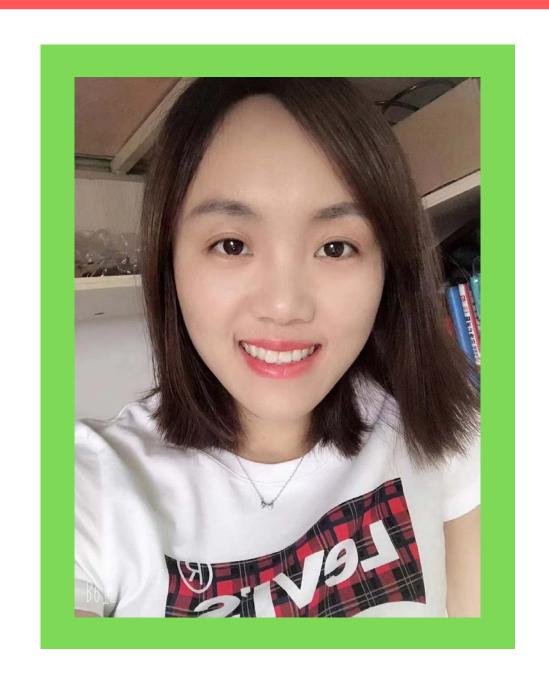


Energy

DM3

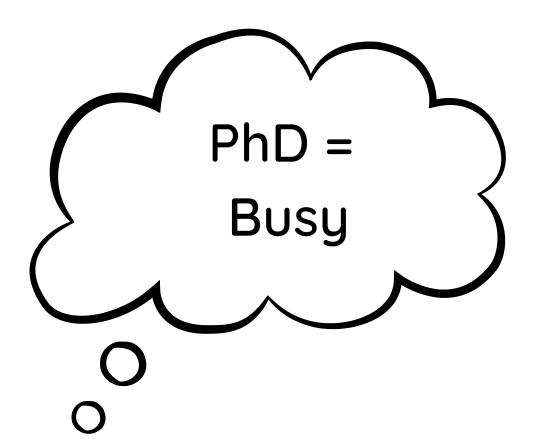
Electrochemical CO2 reduction

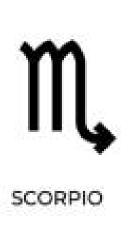
Dr. Damien Voiry



29 years old











Hobby





