



NATIONAL RESEARCH AGENCY (ANR) AND CNRS CONTRACTS



ILV is currently involved in several ANRs either as coordinator or as partner:

- **SERIAL-X ENERGY** (MIM partner), 2020-2023
- **EMERGE** (MIM coordinator), 2020-2024
- **COCONUT** (EPI partner), 2020-2023
- **THIOMOFS** (MIM partner), 2020-2024

- ANR **SAFA** (SORG ILV coordinator), 2018-2022
- ANR **HOT-MWIR** (EPI ILV partner), 2018-2022

- ANR **HYPISUL** (SORG ILV coordinator), 2017-2021: bilateral project
France-Switzerland
- ANR **ArDCO** (SORG ILV partner), 2017-2021
- ANR **MEMOL** (MIM ILV partner), 2017-2020: bilateral project France-Japan
- ANR **EPINAL** (EPI ILV coordinator), 2017-2020

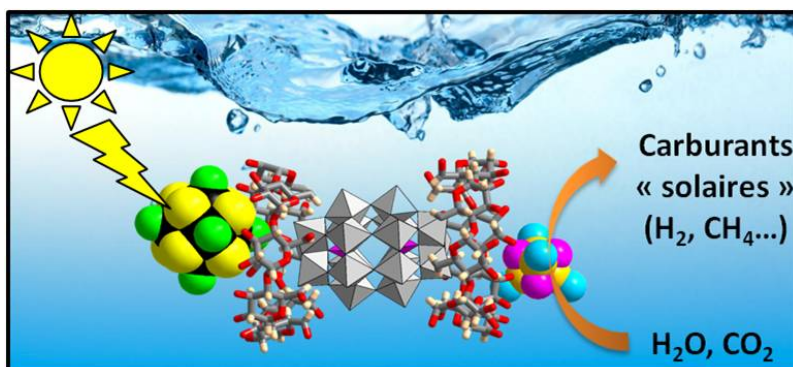
- ANR **CHALCO-CAT** (MIM ILV coordinator), 2016-2020
- ANR **GATE** (SORG ILV coordinator), 2016-2020

- ANR **NANOCELL** (EPI ILV partner), 2015-2020



- CNRS-Momentum "**Hierarchical assembly based on inorganic building blocks: a bio-inspired photo-catalytic platform**" (MIM; coordinator: C. Falaise), 2019-2021

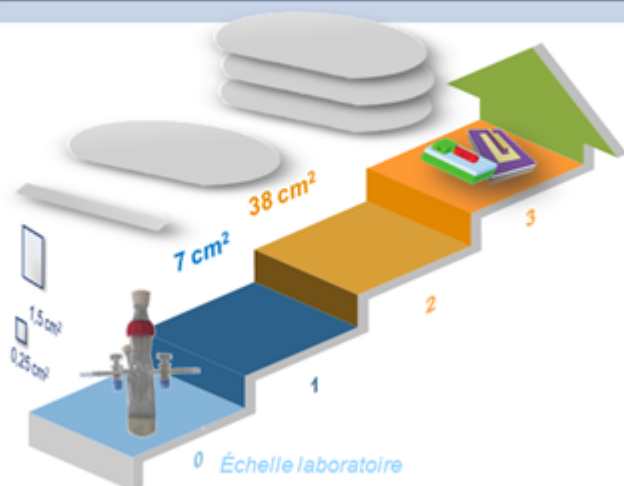
The project consists in combining inorganic functional clusters (photo-sensitizer, redox mediator, catalytic unit) with supramolecular connectors such as natural macrocyclic sugars. In his project, Clément proposes to study the fundamental mechanisms that govern the processes of interaction and association in an aqueous medium that take place between organic and inorganic components. The ultimate goal is to develop original photo-catalytic systems that allow either the production of hydrogen or the conversion of CO₂ into solar fuels.



Preemergence project: "**Development of a preindustrial reactor for the passivation of III Vs semiconductors in liquid ammonia**"; (coordinator: Anne-Marie Goncalves (EPI), C2N partner, period 2019-2021). This 18-month project targets the development of a liquid ammonia reactor allowing the passivation of 1 to 3 InP wafers as well as optoelectronic devices designed by C2N.



Développement d'un réacteur dans NH_3 Liq.



- ✦ Réacteurs / Wafer $\varnothing \rightarrow 5,08$ cm
- ✦ Compatible \forall process
- ✦ Sécurité / $V_{\text{NH}_3}^{\text{min.}}$
- ✦ Eco-compatible « green chemistry »
- ✦ Suivi passivation : reprise de contact