



## What does VIPERLAB offer?

Access to the best EU infrastructures in perovskite research:

- ▾ Manufacturing
- ▾ Characterization of materials and devices
- ▾ Modelling and simulation
- ▾ Databases
- ▾ Technical & Financial support for the visit
- ▾ New collaborations and training

## Who is eligible?

From both **EU** and **non-EU** academic and industrial teams:

- ▾ MSc and PhD students
- ▾ Researchers
- ▾ Engineers

## How do you apply?

Check out our open call at:

[www.viperlab-kep.eu](http://www.viperlab-kep.eu)

1. Select an infrastructure
2. Discuss your idea or project with the instrument scientist
3. Submit your proposal on the GATE portal. the access tool for VIPERLAB.

## User Access Team

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Processing of Hybrid Materials &  
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HZB, Department Solution  
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## Weblinks

<https://www.viperlab.eu/>

<https://www.viperlab-kep.eu/>

<http://viperlab-vapo.eu/>



FULLY CONNECTED

VIRTUAL AND













PHYSICAL


PEROVSKITE


PHOTOVOLTAICS

LAB



## VIPERLAB shared facilities


-  **HZB** - EMIL (Energy Materials In Situ Lab Berlin), at BESSY II
-  **HZB** - HySPRINT-Stability Lab
-  **HZB** – HySPRINT – Perovskite Database
-  **FRAUNHOFER** - Solar Cell Manufacturing & Characterization
-  **JÜLICH/HI ERN** – R2R-Coating-Line
-  **JÜLICH/HI ERN** – AMANDA
-  **SU** – PV Manufacturing and Testing Facility
-  **TNO/Solliance** – S2S process PSK line
-  **IMEC** – ThinFilm PV Lab
-  **CENER** – Accredited PV Module testing Lab
-  **CENER** – Modelling Capacity
-  **CEA** – PSK Platform for SJ and PSK/Si tandem stability assessment

 **EPFL/CSEM** – PV Lab/PV Center PSK/Si tandem processing

 **AIT** – PVS Lab - Tools for PV characterization/reliability







 **ENEA** – Tandem PSK/Si Lab  
 **ENEA** – CRESCO Computing lab

 **UNITOV** – CHOSE - S2S SJ PSK and mechanically stacked tandem line

## VIPERLAB in a nutshell

### Main goal of the project:

Through **facilitated and coordinated transnational and virtual access** to the best EU perovskite infrastructures and the use of advanced data mining approaches, **the project stimulates academic and industrial researchers to work together on the research and development of the next generation of solar cell technology**, which will accelerate the perovskite PV technology development in Europe.

-  Running time: June 1st, 2021 – November 30th, 2024
-  **15** European partners
-  **Three** Networking Activities, **four** Joint Research Activities
-  Budget: 5 Mil. Euro

Trans-national and **virtual access** tailored to Academia, Industry and SMEs, offered through **13 physical infrastructures** and **4 virtual infrastructures**

Provision of more than **8,500 hours of trans-national access** and over **60,000 hours of virtual access**



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Trans-national and virtual access to enable technology validation from lab to industrial scale and accelerate the market entry for Perovskite-PV