Greenet

The network of Horizon Europe
Cluster 5 National Contact Point.

Prof. Dr. Ali Erçin Ersundu
Yildiz Technical University, Istanbul, Türkiye

GREENET Brokerage Event

6th May 2025

The GREENET project has received funding from the EU Horizon Europe programme under Grant Agreement No 101069604

Greenet

Prof. Dr. Ali Erçin Ersundu
Yildiz Technical University, Istanbul, Turkiye
- Faculty member @ Metallurgical and Materials Engineering
- Co-director of Glass Research Group

ersundu@gmail.com

YTU Glass Research Group

www.glass.yildiz.edu.tr

YILDIZ TEKNİK ÜNİVERSİTESİ 1911 YTU

YTU Glass Research Group at Yıldız Technical University specializes in the development of advanced materials for energy, optoelectronics, and sustainable technologies.

Yildiz Technical University (YTU) is one of the seven public universities situated in Istanbul and the 3rd oldest university of Turkey with its history dating back to 1911.

Greenet

The network of Horizon Europe
Cluster 5 National Contact Point.

YTU Glass Research Group

Renewables (general); Photovoltaics

HORIZON-CL5-2026-02-D3-10: Towards commercialisation of Perovskite PV and development of dedicated manufacturing equipment (EUPI-PV Partnership)

Carbon Capture, Utilisation and Storage (CCUS)

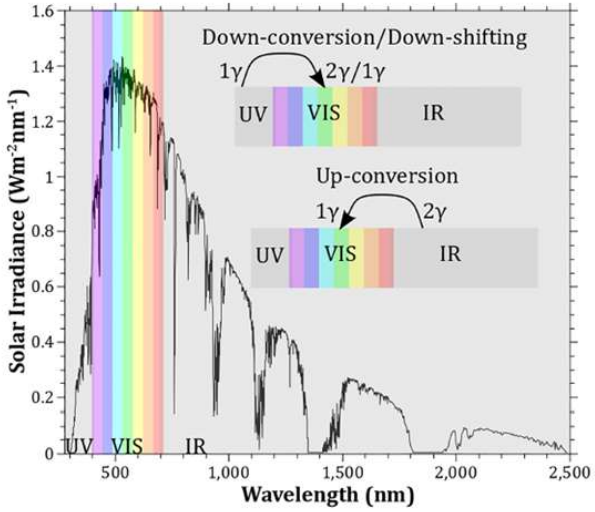
HORIZON-CL5-2026-02-D3-24: New CO2 capture technologies

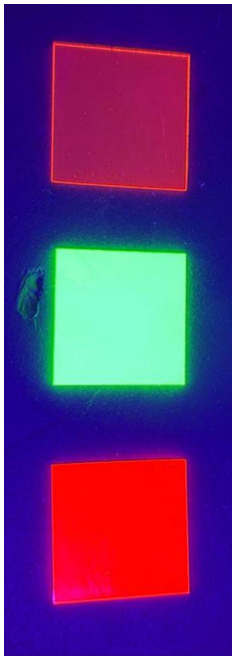
The GREENET project has received funding from the EU Horizon Europe programme under Grant Agreement No 101069604

Greenet

Advanced Materials for Next-Generation Energy and Optoelectronic Applications

- Development of novel luminescent materials for photovoltaic systems with integrated light spectrum control.
- Design and optimization of luminescent solar concentrators (LSCs) for building-integrated photovoltaics (BIPV) and clean energy solutions.
- Advanced luminescent materials for solid-state lighting, plant growth LEDs, anti-counterfeiting, and laser-based display applications.
- Development of functional thin films on glass and ultra-thin chemically strengthened glass for enhanced durability and performance.
- Carbon capture, utilization, and mineralization using waste materials to develop sustainable and eco-friendly solutions.





Sample Size

- ***Up to 10*10 cm***
- ***From 1 mm up to 10 cm***

Surface Quality

roughness of standard-produced samples

Ra is around 5 nm

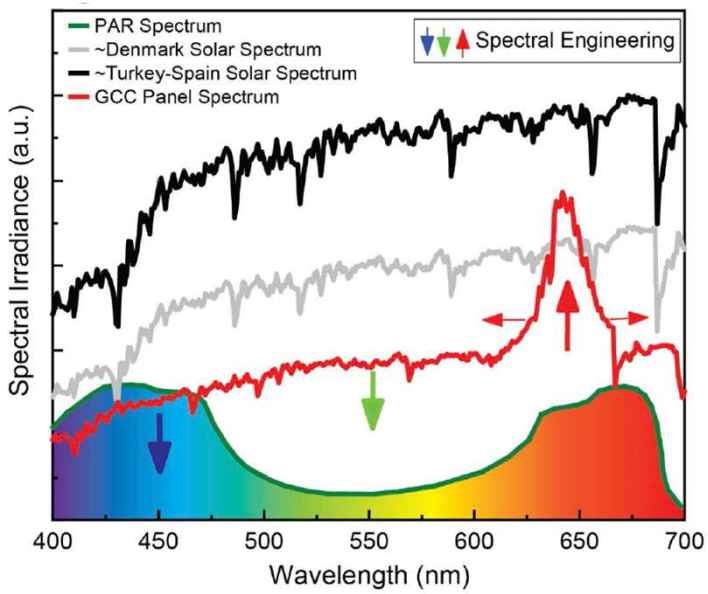
specially prepared surface

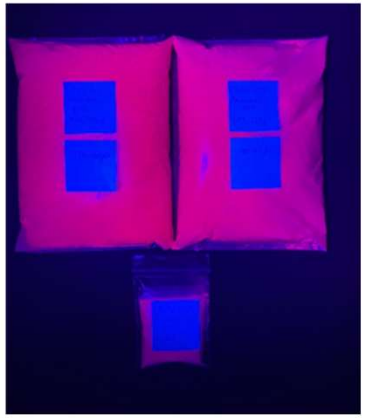
Ra is 0.18 nm

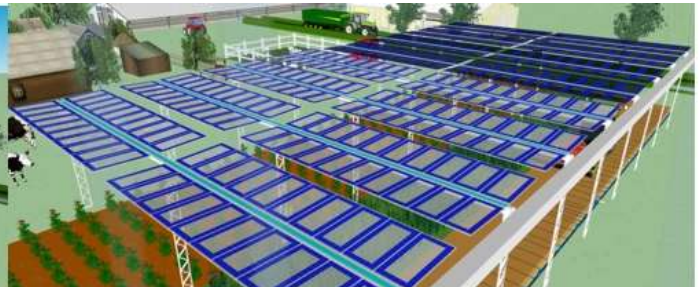
Greenet

PV4Plants - www.pv4plants.eu

European Commission



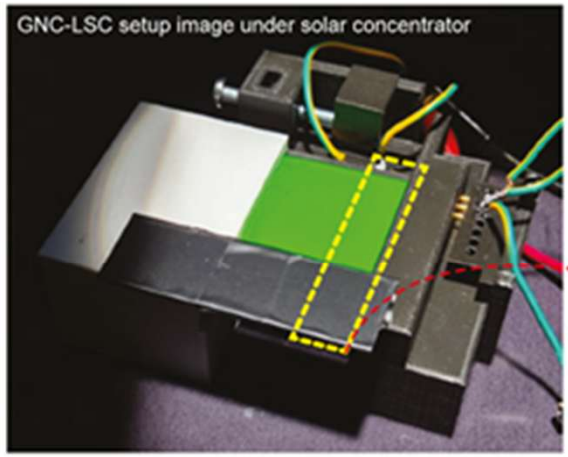


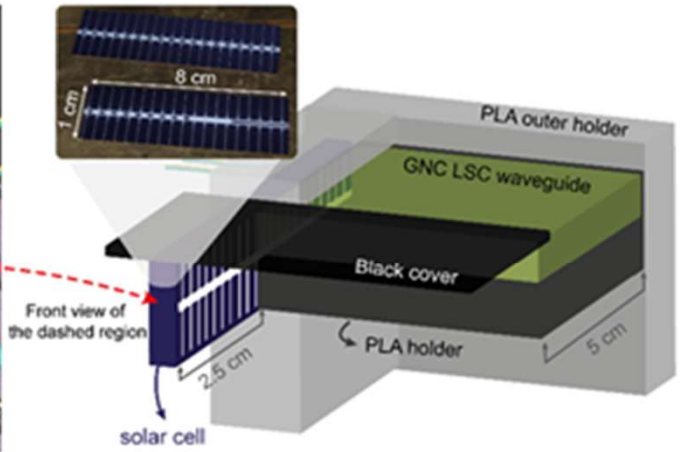


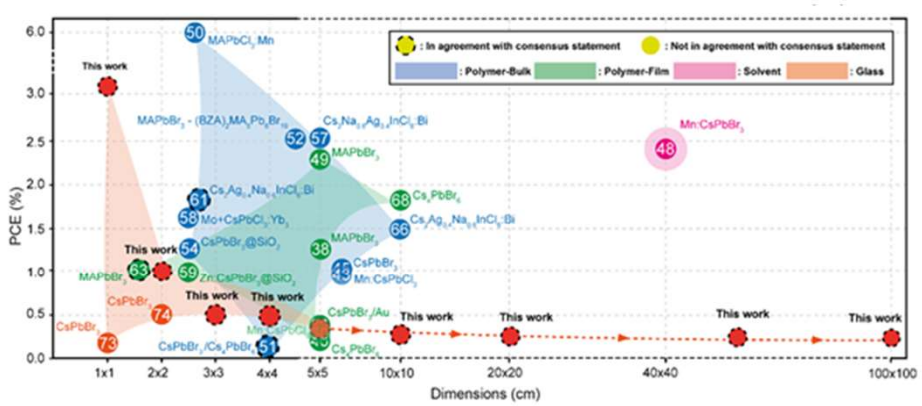
Greenet

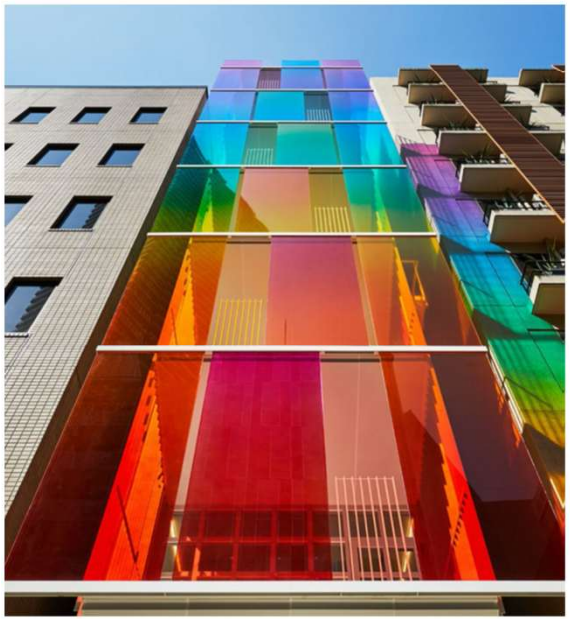
REFORM - PoweR gEneration From perOvskite aRchitectural eleMents

Cet Partnership









Greenet

The network of Horizon Europe
Cluster 5 National Contact Point.

Prof. Dr. Ali Erçin Ersundu
Yildiz Technical University, Istanbul, Türkiye

GREENET Brokerage Event

6th May 2025

The GREENET project has received funding from the EU Horizon Europe programme under Grant Agreement No 101069604