

We use light to disclose innovative synthetic routes in organic synthesis. The advantages of this approach are apparent:

- ✧ Eco-sustainability;
- ✧ Selectivity;
- ✧ Practicality

PhotoGreen Lab

 unipv.it/photogreenlab

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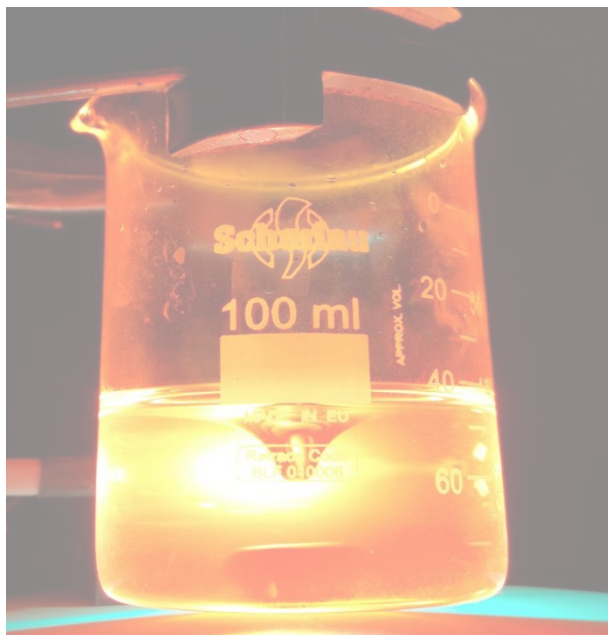
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PHOTO GREEN LAB

Photons for chemistry.



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NOVEL REACTIVITY

One of our major goals of our Lab is the development of eco-sustainable synthetic approaches to build up molecular complexity.

ORGANIC SYNTHESIS

We have a pluriannual expertise in the use of light as source of green, clean and low-cost energy to perform chemical reactions.

Our optimized irradiation setups allow us to achieve high levels of reproducibility, versatility and scalability.

APPLIED PHOTOCHEMISTRY

Thanks to its intrinsic advantages in terms of spatial resolution and tunability, light is considered a tool of choice in fields ranging from technology to biology.

Over the past few years, we have successfully developed a number of photoinitiators for microlithography and embarked on a study to test such compounds.

Similarly, we developed an innovative photochemical route to highly energetic intermediates that are known to cause oxidative DNA cleavage and cell death. We are now testing this approach to develop chemotherapeutic agents.



OUR FACILITIES

Our laboratory has free access to a wide range of facilities:

1. UV Light LEDs
2. Visible Light LEDs
3. Solar Simulator
4. Immersion-well Apparatus
5. GC-FID
6. NMR facility

Likewise, we own state-of-the-art instruments for photophysical experiments:

1. UV-Vis Spectrophotometer
2. Fluorimeter
3. Laser Flash Photolysis Apparatus

If you are interested in collaborating with PhotoGreen Lab, please feel free to contact us by email (photogreenlab@unipv.it) or by phone (+39 0382 987198).