

Master Thesis

The Chair of Materials for Electronics and Energy Technology (WW6, i-MEET) is offering the following master thesis topic to interested students:

Encapsulation and Lifetime of High-Efficiency Organic Photovoltaic Modules

Details:

End of 2024, our group has set a new world record for organic photovoltaic (OPV) modules with an efficiency of 14.5% on 204 cm². Now we are interested in studying the lifetime and stability of such high-efficiency OPV modules, on the one hand in accelerated lifetime tests (ALT) and on the other hand in outdoor lifetime tests (OLT). These studies go hand in hand with the development of a suitable encapsulation for the modules as well as an in-depth failure analysis of degraded modules.



The work will be conducted at the Energie Campus Nürnberg (Solar Factory of the Future) in the Emerging PV Modules Group led by Dr. Andreas Distler.

Application via email starting from 1.9.2024. Starting date can be shortly after.

Contact: Dr. Andreas Distler
Solar Factory of the Future (ePV Modules Group)
Energie Campus Nürnberg („Auf AEG“)
Fürther Str. 250, 90429 Nürnberg
Phone: +49 911 5302 99357
Email: andreas.distler@fau.de