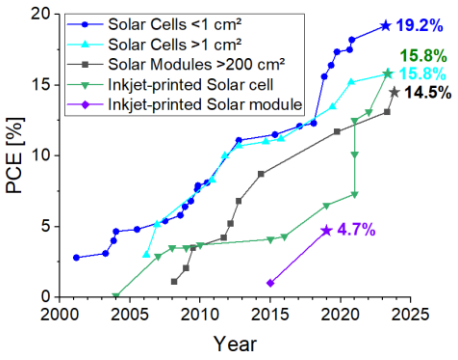
Master Thesis

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

Inkjet-Printed 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. Furthermore, we are one of the pioneering groups for the fabrication of OPV devices by inkjet printing, which offers various benefits (e.g. freedom in design). In the framework of this master thesis, new high-efficiency material systems shall be evaluated incorporated into a fully inkjet-printed manufacturing process to reach new record efficiencies for such type of device. This involves technical drawing (CAD), ink formulation, device fabrication, characterization, and optimization.



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.

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