

Bachelor/Master Thesis

Stable Organic Solar Cells for Outer Space

AI-guided high-throughput experimentation

⊕ No O₂

⊕ No H₂O

⊖ Thermal cycling

⊖ High vacuum

⊖ Particle bombardment

⊖ High-energy radiation

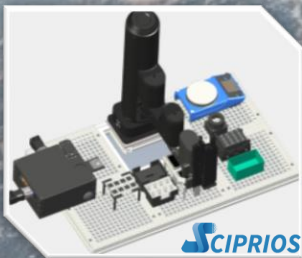


Description

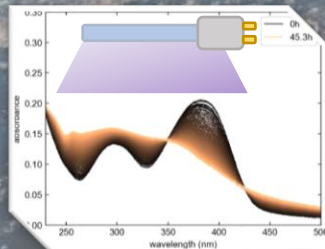
Design of stable organic solar cells for outer space applications by accelerating material discovery with automated high-throughput experimentation and predictive machine learning models.

Methods / Tasks

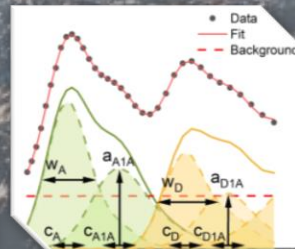
Automated Processing



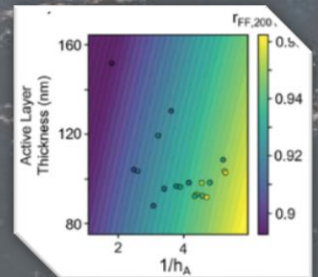
Automated UVC Degradation



Spectral Modelling



Machine Learning Models



Qualifications

- Engineering or science student
- Ambitious and willing to learn
- Reliable teamwork
- Regular attendance

Contact:

Andreas.Bornschlegl@fau.de

i-MEET / WW 6

Martensstraße 7, Erlangen

Room 372

Funded by

DFG Deutsche
Forschungsgemeinschaft
German Research Foundation

