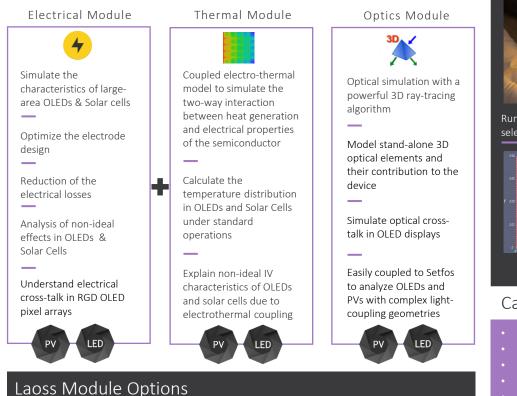


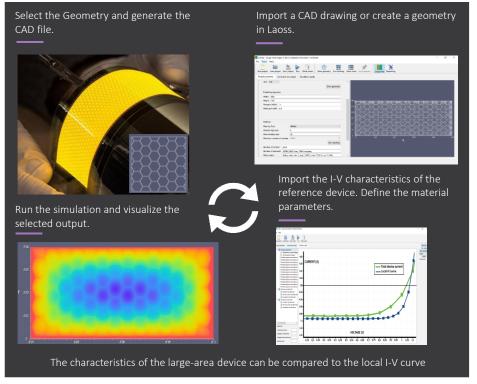
Design & Optimize Large Scale LEDs & Solar Cells

Laoss (Large area organic semiconductor simulator) is a powerful, high speed software package for the design, simulation and optimization of large-area organic and perovskite solar cells and LEDs. (displays, lighting panels, photovoltaic modules).



We offer three modules with Laoss: Optical, Electrical and Thermal. The optical and electrical modules can be purchased separately. The thermal module requires a license of the electrical module and considers electro-thermal coupling.

Intuitive Work Flow



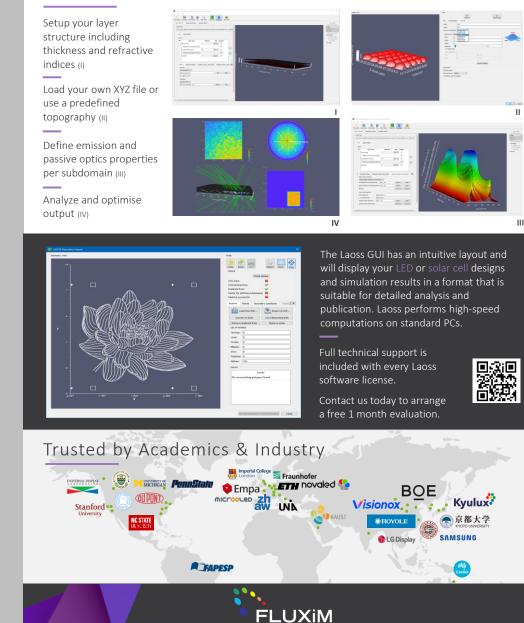
Calculate, Simulate & Optimize

- Analyze the electrical losses in large area electrodes. (LEDs & PVs)
- Evaluate the current flow in the electrodes. (LEDs & PVs)
- Calculate the I-V curves of large devices. (LEDs & PVs)
- Optimize the power efficiency of full solar-cell modules. (PVs)
- Calculate the temperature distribution on the device. (LEDs & PVs)
- Quantify pixel cross-talk effects. (LEDs)
- Optimize the geometry of the electrodes. (LEDs & PVs)
- Simulate the impacts of defects and shunts on the device operation. (LEDs & PVs)



LAOSS Design & Optimization Software for Large-Area LEDs, Solar Cells & Panels

Laoss Optics Workflow



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