

Setfos

Simulation Software for Solar Cells & LEDs



Absorption

Drift-Diffusion

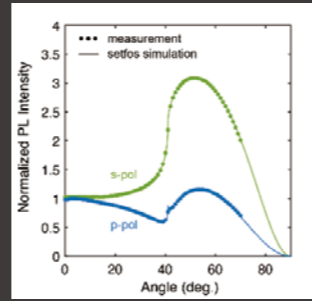
Advanced Optics

Emission

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Simulate & Optimize OLEDs & Solar Cells

- Physical models developed & trusted by leading scientists.
- Sound materials & device models that have been successfully validated by dedicated experiments.
- Setfos is continuously expanding its modeling possibilities. Enabling you to stay at the forefront of the development of organic and perovskite electronic devices.



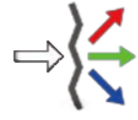
Absorption



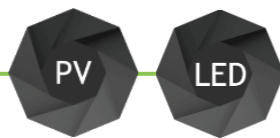
- Coherent/incoherent layers
- Absorption profiles
- Layer specific absorptions



Advanced Optics



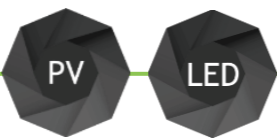
- Scattering (ray, Fourier) interfaces & particles (Mie)
- Birefringence
- Quantum dot down conversion



Drift-diffusion



- Electronic & ionic charges
- Excitons
- Traps, doping, SRH
- DC, AC, transient solvers
- Charge recombination & generation interfaces in tandems
- Polar layers



Emission



- Coherent/incoherent layers
- Spectral emission
- Mode analysis
- Quenching
- Emission zone fitting



Advanced Features



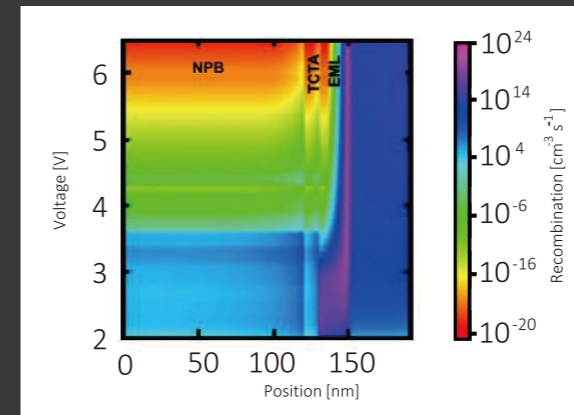
Use the optimization toolbox to improve your device or to extract physical parameters.



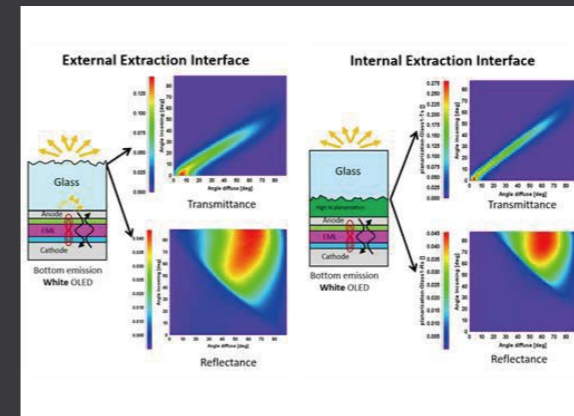
Sweep material parameters to analyze their influence on the device performance.

Accelerate Your Research with Setfos

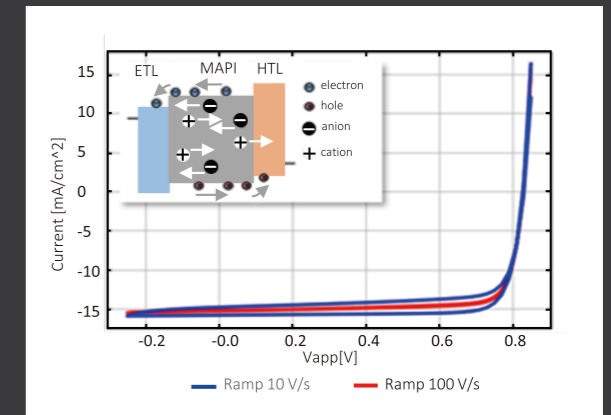
Setfos simulates LEDs from charge injection to light extraction.



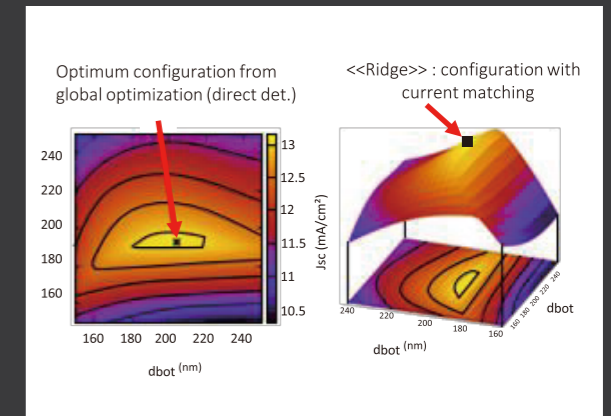
Advanced Optics module to optimize layer stacks with scattering elements.



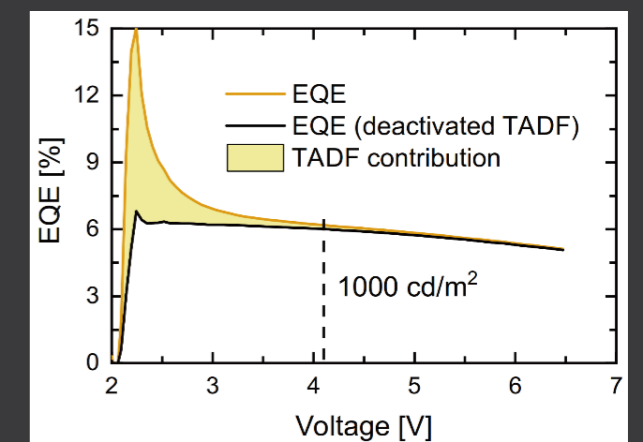
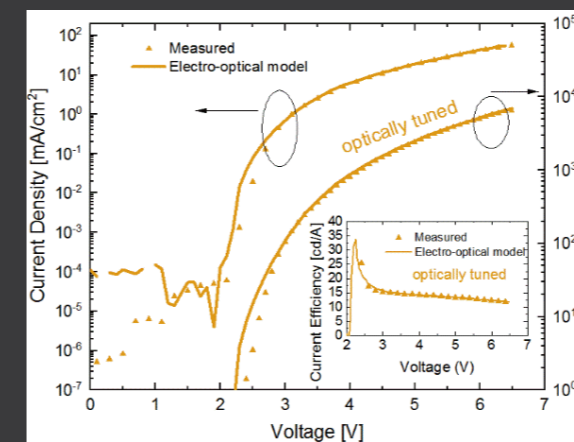
New possibilities for ionic devices such as perovskite solar cells and LECs.



Perform full electro-optical simulations and optimizations of tandem solar cells.



Validate Your Research with the Predictive Power of Setfos



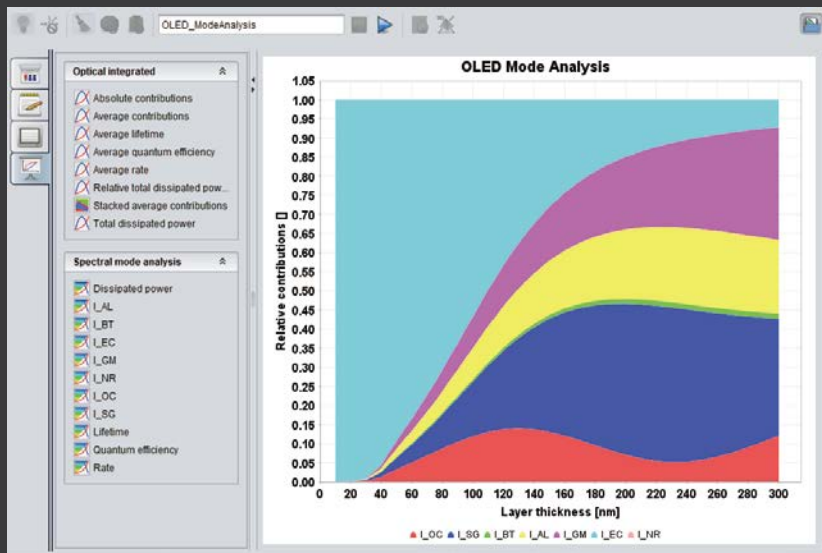
Setfos is Fast and Easy To Use

Intuitive Graphical User Interface

- Easily design OPV and LED devices via the graphical user interface
- Device structure visualization
- Key graphs and reports are automatically generated
- Run multiple simulations in parallel

Optimize with unrivaled speed

- Setfos multithreading ensures electrical and optical device properties can be calculated in a few seconds
- Setfos includes fitting and optimization algorithms
- Extract physical parameters and optimize the device layout



Stay organized by simultaneously managing multiple simulations in the GUI work-space and compare selected results in the same plot.

Full technical support is included with every purchase of a Setfos software license. Contact us today to arrange a free 1 month evaluation license.



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