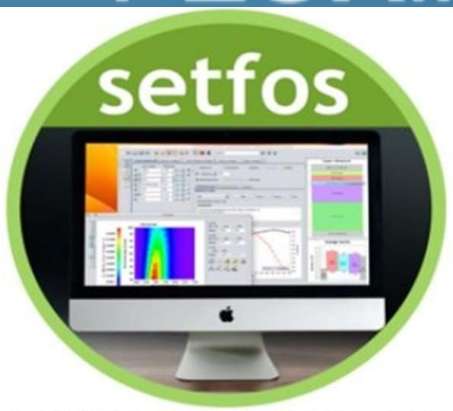
FLUXiM

HTTR 北京华通特瑞

GSI 台北广集



多功能有机光电量测系统,整合稳态、瞬态以及交流阻抗多种量测技术，是OLED，钙钛矿/晶硅迭层电池，PeQD-X研究人员最佳的量测工具！

- Charge Extraction
- Photo-CELIV
- Capacitance-Voltage
- IMPS / IMVS
- Impedance Spectroscopy
- MELS
- Current-Voltage-Luminance
- Emission Spectrum
- Transient Electroluminescence
- Transient Photocurrent
- Transient Photovoltage
- User-Defined Signals

我们的光伏PV产业技术全面升级方案：

***SPI:Setfos+Laoss/Paios+Phelos+Litos Integration

无缝整合独特功能,拟合提取分析载子动力学和衰退老化机制！

***Pero/Si Tandem Solar Cell模拟优化Tandem结构，创新功能材料，加速推进次世代钙钛矿/晶硅叠层太阳电池的批量大尺寸商业化。

我们提出纳米原子尺度--非平衡条件类费米能级失配(Quasi Fermi Level Splitting QFLS)关键参数，在实际叠层太阳能电池结构/各个子电池分析辅助以瑞士Fluxim公司Setfos动态仿真模拟

20230117英国Oxford大学，Sheffield大学，德国Potsdam大学联合paper：Open-circuit and short-circuit loss management in wide-gap perovskite p-i-n solar cells

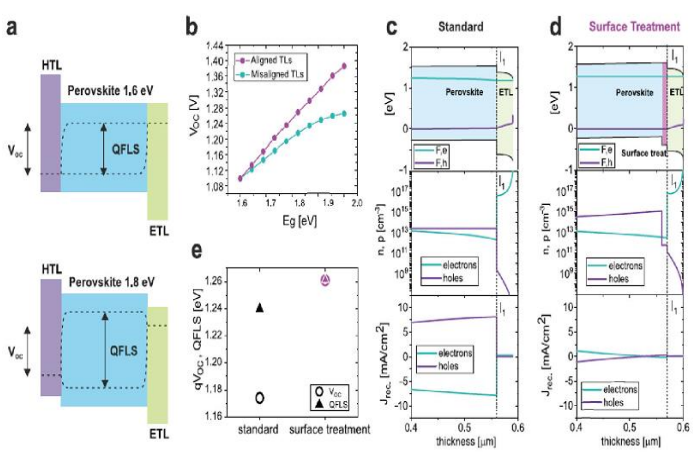


Fig. 1 | Drift-diffusion simulations with SETFOS.

Perovskite钙钛矿/晶硅Si叠层太阳电池设计优化，首先掌握系统性关键因素QFLS Quasi Fermi Level Splitting,减少Voc Loss 。进而Isc最优匹配/稳定寿命增强

20230504 德国HZB，Potsdam大学等联合paper:Interface engineering for high-performance, triple-halide perovskite-silicon tandem solar cells 32.5%

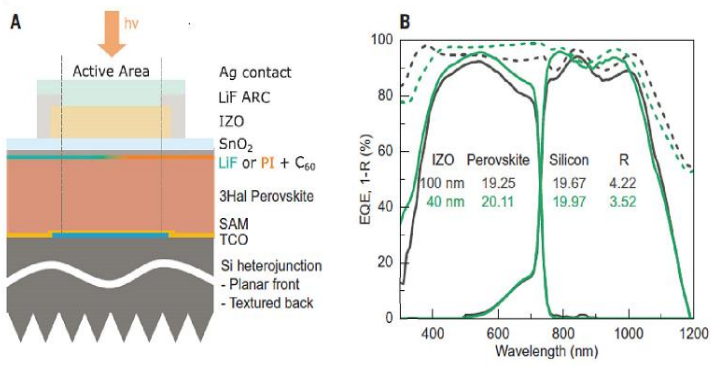


Table S1. PLQY and QFLS obtained from PL measurements on three different device configurations.

Sample	PLQY (QFLS)		
	No surface treatm.	Surface treatment	
	Reference	LiF	PI
Quartz/Perovskite	3.75e-2 (1.305 eV)	9.94e-2 (1.330 eV)	3.93e-2 (1.306 eV)
Glass/ITO/2PACz/3Hal/Surf.Treatm.	5.43e-3 (1.255 eV)	2.47e-2 (1.294 eV)	4.59e-3 (1.251 eV)
Glass/ITO/2PACz/3Hal/Surf.Treatm./C_{60}	2.66e-4 (1.177 eV)	2.34e-3 (1.233 eV)	8.04e-3 (1.265 eV)
Glass/ITO/Me4PACz/3Hal/Surf.Treatm.	4.10e-2 (1.308 eV)	-	2.75e-2 (1.270 eV)
Glass/ITO/Me4PACz/3Hal/Surf.Treatm./C_{60}	2.43e-3 (1.175 eV)	-	9.79e-3 (1.297 eV)