

# Single Junction OPV / PCE= 18.22%



**I-MATERIAL INC**

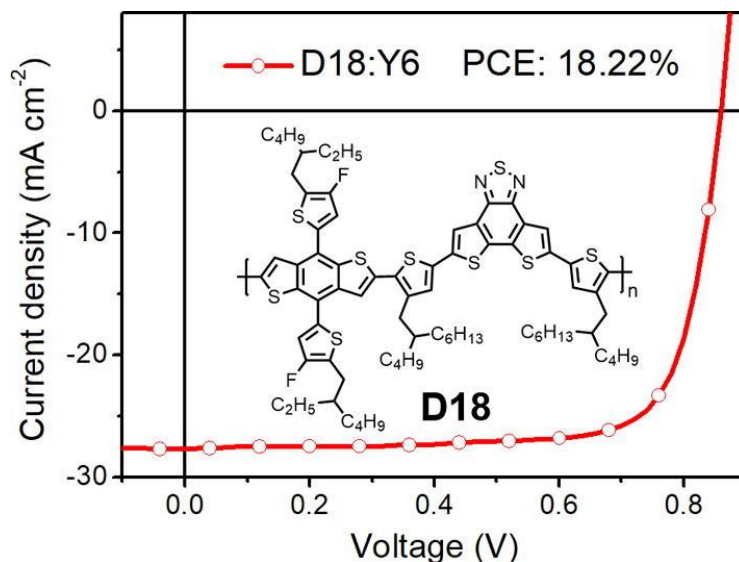
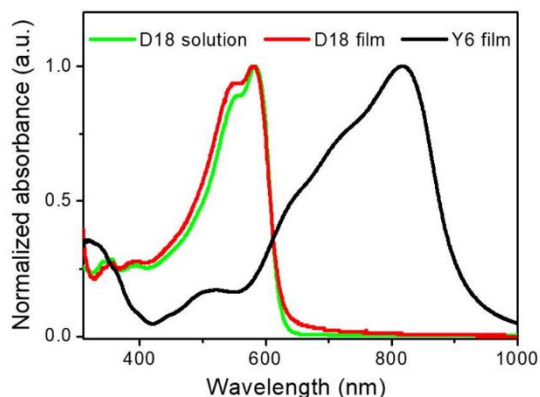
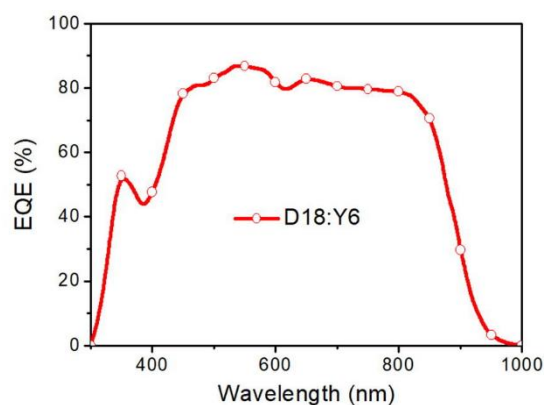
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Organic Nano Electronic (ONE=I) Materials for those who understand quality

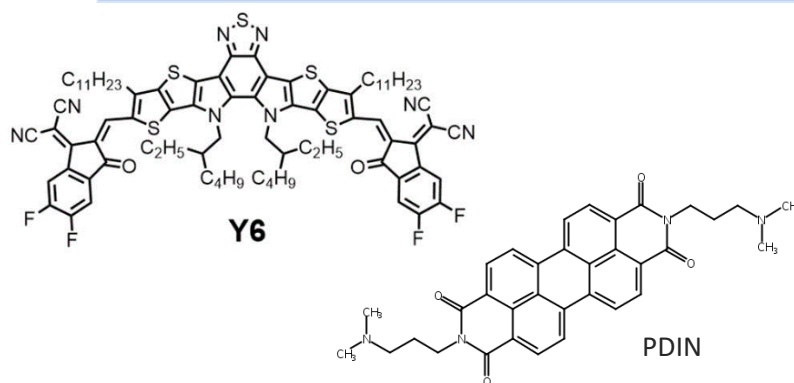
1<sup>st</sup> record of 2020

## 18% Efficiency Organic Solar Cells

Courtesy of Science Bulletin, 65(2020) 272  
Congratulation to the team of Prof. Ding



Single junction OPV: ITO/PEDOT:PSS/D18:Y6/PDIN/Ag  
Performance:  $V_{oc}$ :0.859 V,  $J_{sc}$ :27.70 mAcm<sup>-2</sup>, FF:76.6%



**Reproducibility matters, from D18, Y6 to PDIN are now ready for you to validate.**

Material	HOMO/LUMO(eV)	IM Material /CAS#	IM No.	Specification
D18	-5.51 / -2.77	D18 /CAS#NA	PCE-18	Mw~100K
Y6	-5.65 / -4.10	NFA157 / CAS# 2304444-49-1	PCE157	99+%
PDIN	-6.05 / -3.72	PDIN / CAS#117901-97-0	OS0790	99+%

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