Single Junction OPV / PCE= 18.22%

1-MATERIAL INC

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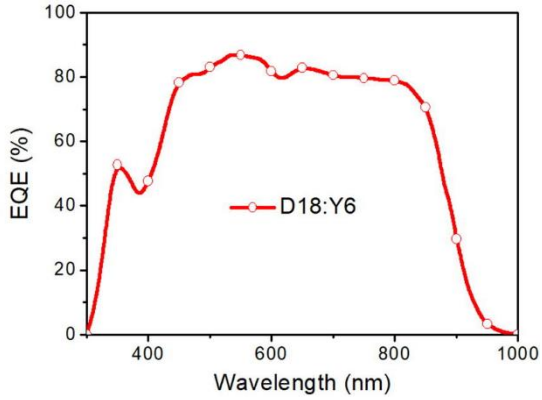
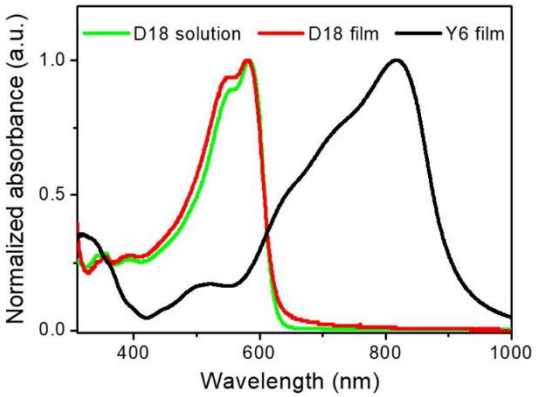
Organic Nano Electronic (ONE=1) Materials for those who understand quality

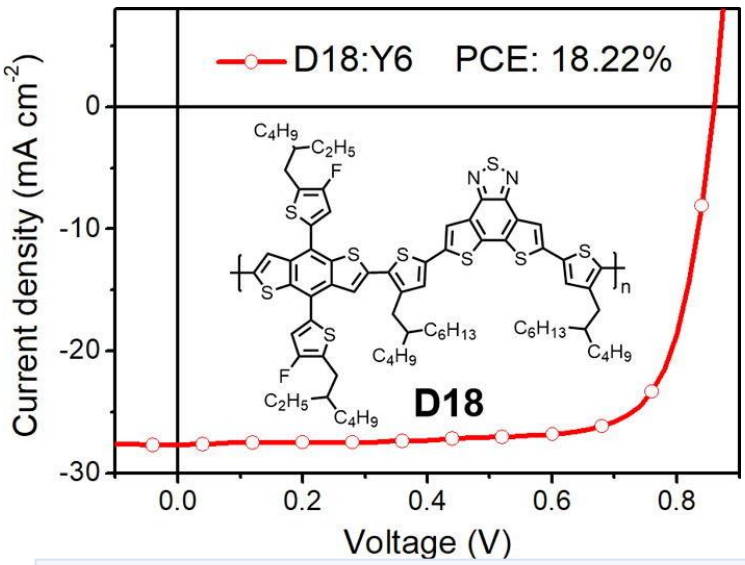
1st record of 2020

18% Efficiency Organic Solar Cells

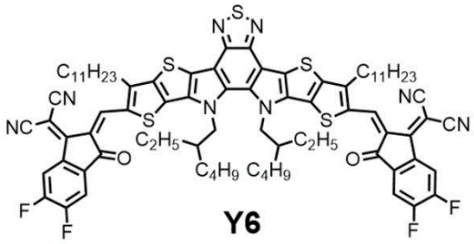
Courtesy of Science Bulletin, 65(2020) 272
Congratulation to the team of Prof. Ding

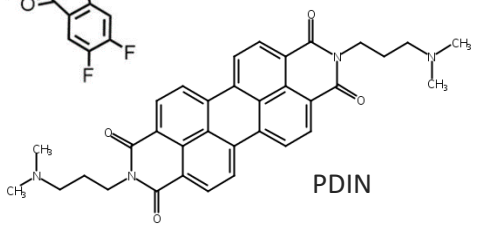






Single junction OPV: ITO/PEDOT:PSS/D18:Y6/PDIN/Ag
Performance: V_{oc}:0.859 V, J_{SC}:27.70 mAcm^{-2}, FF:76.6%





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

Material	HOMO/LUMO(eV)	1M Material /CAS#	1M 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	OS0970	99+%

Please contact info@1-material.com for more information