



Organic Nano Electronic(ONE=1)materials for these who understand quality

<p><b>PCE160</b></p> <p><b>T1</b></p> <p>PBDB-TF-T1</p>	<p>Adv. Mater. 2019, 31, 1903441</p>		<p>15.7±0.3</p> <p><b>Green solvents process-able</b></p>															
<p><b>PCE139</b></p> <p><b>PM7</b></p>			<p>doi.org/10.1002/adma.201800868</p>															
<p><b>PCE135</b></p> <p><b>PM6</b></p>			<p><b>Table 1</b> Photovoltaic performance data of the PSCs based on PM6:IT-4F (1:1, w/w)</p> <table border="1"> <thead> <tr> <th>PM6:IT-4F</th> <th><math>V_{oc}</math> (V)</th> <th><math>J_{sc}^{(a)}</math> [<math>\text{mA cm}^{-2}</math>)]</th> <th>FF (%)</th> <th>PCE<sup>b</sup> (%)</th> </tr> </thead> <tbody> <tr> <td>As-cast</td> <td>0.89</td> <td>19.4 (18.5)</td> <td>66.7</td> <td>11.5 (11.1)</td> </tr> <tr> <td>DIO<sup>c</sup> + TA<sup>d</sup></td> <td>0.84</td> <td>22.2 (21.1)</td> <td>72.5</td> <td>13.5 (13.2)</td> </tr> </tbody> </table> <p>a) The integral <math>J_{sc}</math> in parentheses from the EQE curves; b) the average PCEs in parentheses from 30 devices; c) with 0.75% DIO; d) with TA at 100 °C for 20 min;</p> <p>doi.org/10.1007/s11426-017-9191-1</p>	PM6:IT-4F	$V_{oc}$ (V)	$J_{sc}^{(a)}$ [ $\text{mA cm}^{-2}$ )]	FF (%)	PCE <sup>b</sup> (%)	As-cast	0.89	19.4 (18.5)	66.7	11.5 (11.1)	DIO <sup>c</sup> + TA <sup>d</sup>	0.84	22.2 (21.1)	72.5	13.5 (13.2)
PM6:IT-4F	$V_{oc}$ (V)	$J_{sc}^{(a)}$ [ $\text{mA cm}^{-2}$ )]	FF (%)	PCE <sup>b</sup> (%)														
As-cast	0.89	19.4 (18.5)	66.7	11.5 (11.1)														
DIO <sup>c</sup> + TA <sup>d</sup>	0.84	22.2 (21.1)	72.5	13.5 (13.2)														
<p><b>PCE-12</b></p> <p><b>PBDB-T</b></p>	<p>OS0804</p> <p><b>PBDB-T</b></p> <p>PBDTBDD</p> <p>HOMO (eV)= -5.33</p> <p>LUMO(eV)= -2.93</p>	<p>CAS#1415929-08-4</p>	<p>Adv. Mater. 2016, 28, 9423</p>															
<p><b>PCE-10</b></p> <p><b>PTB7-Th</b></p>	<p>OS0100</p> <p><b>PTB7-TH</b></p> <p>PBDTTT-EFT</p> <p>HOMO (eV)= -5.24</p> <p>LUMO(eV)= -3.66</p>	<p>CAS#1469791-66-9</p>	<p>Nat. Photonics, 9, March 2015</p>															