

**Table 23.** Most stable organic research solar cells in terms of the stability test energy yield for 200 and 1000 h under simulated 1 sun illumination as a function of the device bandgap energy (from EQE spectrum).

$E_g$ [eV]	0 h PCE [%]	200 h PCE [%]	1000 h PCE [%]	$E_{200h}$ [Wh cm <sup>-2</sup> ]	$E_{1000h}$ [Wh cm <sup>-2</sup> ]	Active material	Ref.	Comments <sup>a)</sup>
1.56	7.8	7.2	6.8	1.5	7.0	PBDB-T:ITIC-2F	[419]	OC, w-LED, N <sub>2</sub> , 40 °C, UV-f
1.57	5.0	5.0	4.7	1.0	4.8	P3HT:o-IDTBR	[420]	OC, AM1.5G, N <sub>2</sub> , UV-f
<b>1.61</b>	<b>5.1</b>	<b>4.9</b>	<b>4.9</b>	<b>1.1</b>	<b>4.9</b>	<b>Dyad 4</b>	[421,422]	<b>OC, w-LED, N<sub>2</sub>, 30 °C</b>
1.66	8.0	7.4	7.0	1.5	7.3	PBDB-T:ITIC-Th	[419]	OC, w-LED, N <sub>2</sub> , 40 °C, UV-f
1.70	8.7	8.1	–	1.6	–	PBDB-T:IDTBR	[423]	OC, AM1.5G, N <sub>2</sub> , 35–40 °C
1.84	5.9	5.6	5.4	1.1	5.6	PBDB-T:PCBM	[419]	OC, w-LED, N <sub>2</sub> , 40 °C, UV-f
1.94	3.7	3.7	3.7	0.7	3.7	P3HT-PCBM	[424]	OC, AM1.5G, air

<sup>a)</sup>Abbreviations: OC, open-circuit (condition during test); UV-f, ultraviolet light filter; w-LED, white light spectrum light emitting diode source.