

1 Experimental Results

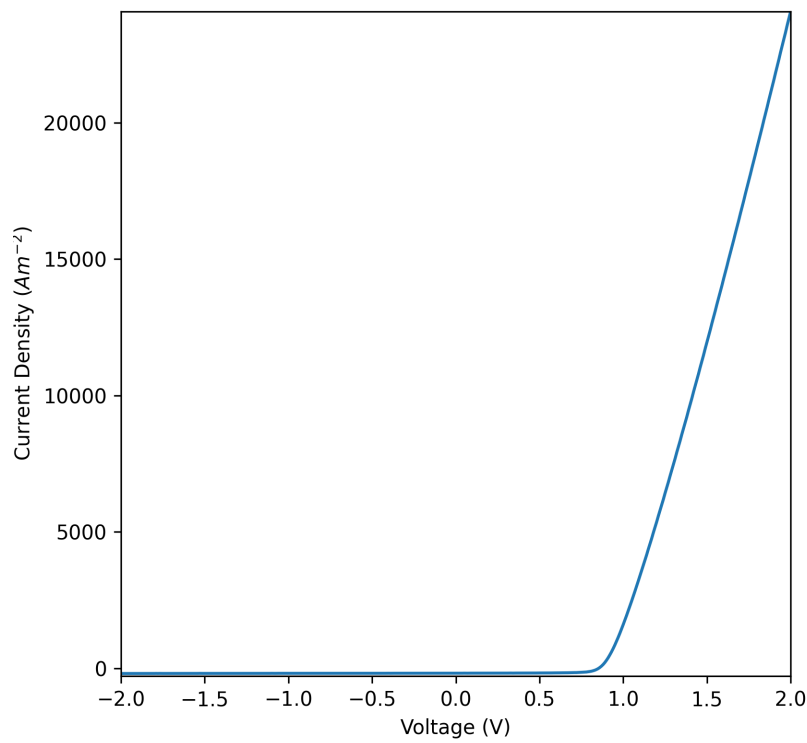


Figure 1: Experimental Input Characteristic

Table 1: Parameters calculable from input characteristic

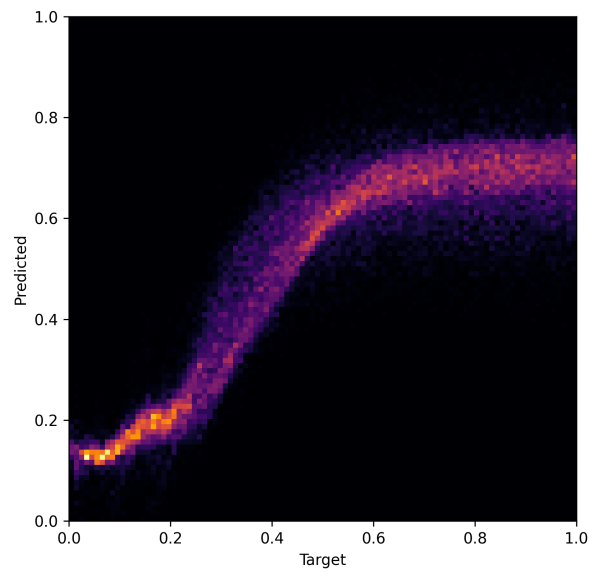
Parameter	Value	Unit
Jsc	176.250	$A m^{-2}$
Voc	0.850	V
FF	0.739	$a.u$
Pmax	110.700	$W m^{-2}$
PCE	11.070	$Percent$

2 Machine Learning Parameters

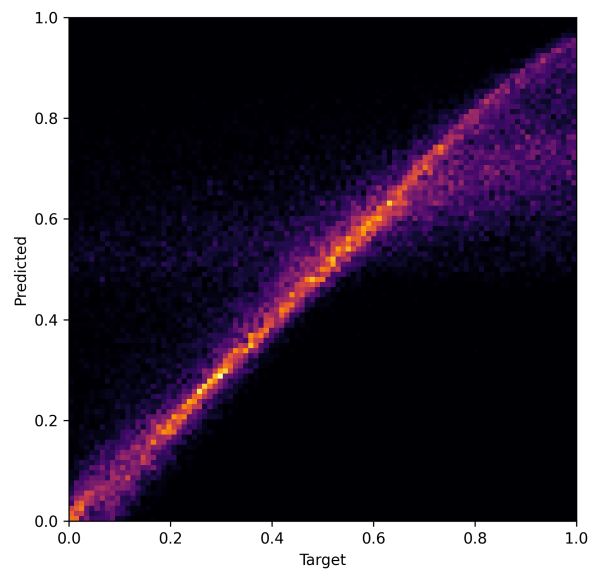
Table 2: Machine learning predictions by the single method

Parameters	Mean	Units	MAPE (%)
Shunt resistance	1.137	QLabel	21.816
Series resistance	7.162	QLabel	33.879
Fill factor	0.831	QLabel	10.986
Power conversion efficiency (PCE)	11.687	QLabel	11.334
V_{oc}	0.867	QLabel	5.936
J_{sc}	-204.988	QLabel	2.651

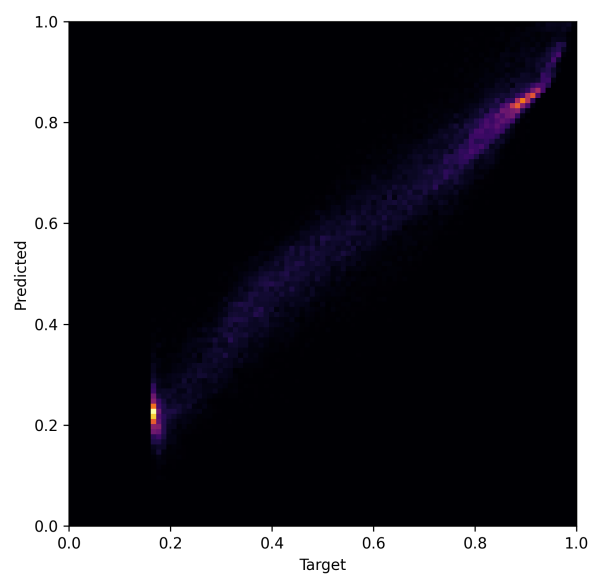
2.1 Shunt resistance



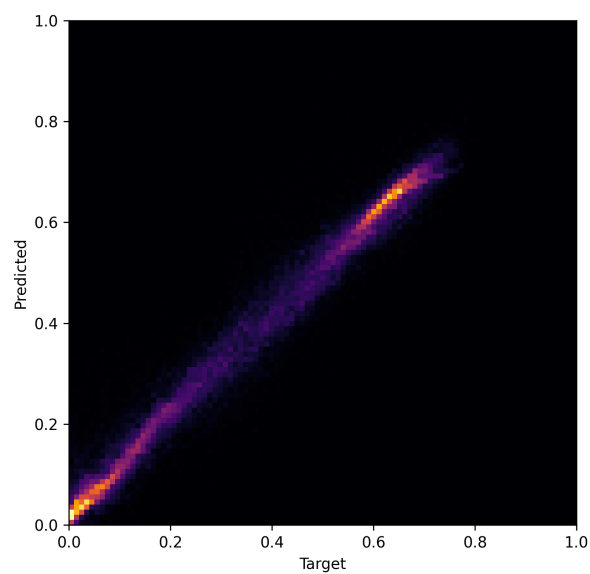
2.2 Series resistance



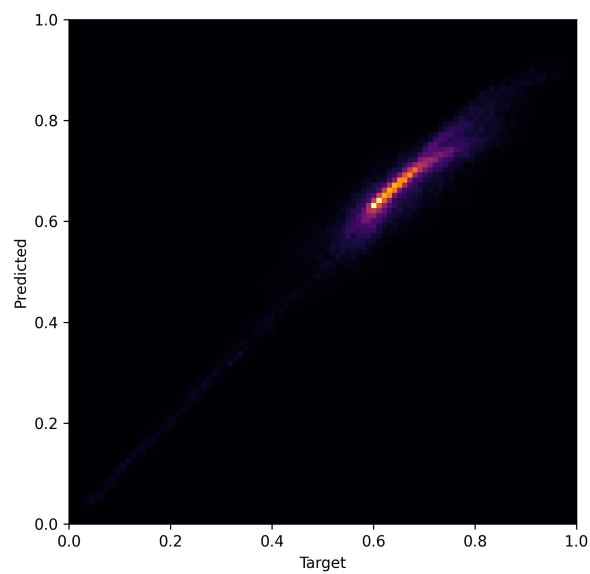
2.3 Fill factor



2.4 Power conversion efficiency (PCE)



2.5 V_{oc}



2.6 J_{sc}

