

Supplementary Material for:

**Solution processed CdS Quantum dots on TiO₂: Light induced
electrochemical properties**

Babasaheb R. Sankapal^{a,*}, Dipak B. Salunkhe^b, Sutripto Majumder^a, Deepak P. Dubal^c

*^aNano Materials and Device Laboratory, Applied Physics Department, Visvesvaraya National
Institute of Technology, Nagpur-440 010 (M.S.) India*

*^bThin Film and Nano Science Laboratory, Department of Physics, School of Physical Sciences,
North Maharashtra University, Jalgaon - 425 001 (M. S.) India*

*^cCatalan Institute of Nanoscience and Nanotechnology, CIN2, ICN2 (CSIC-ICN), Campus UAB,
E-08193 Bellaterra, Barcelona, Spain*

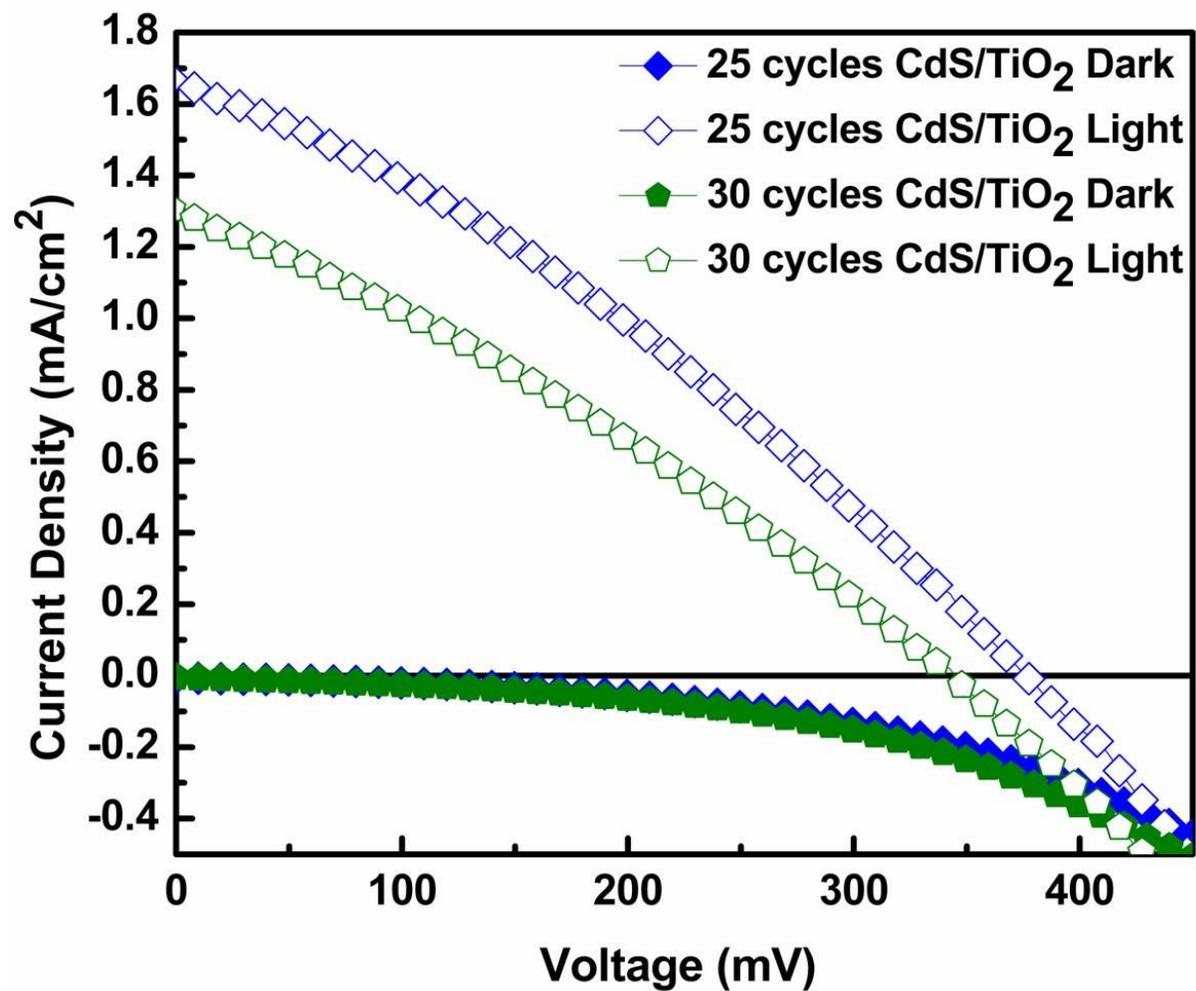


Fig. S1 represents current density vs voltage characteristics under dark and illumination for 25 and 30 cycles of SILAR immersions of CdS over TiO₂

TiO₂/CdS	J_{sc}	V_{oc}	FF	η	R_s	R_{sh}
SILAR	(mA.cm⁻²)	(mV)	(%)	(%)	(Ω)	(kΩ)
Cycles						
25	1.660	376	30.1	0.377	249	1.44
30	1.296	344	29.5	0.263	207	1.14

Table : T1 Photovoltaic parameters of the device for 25 and 30 SILAR cycles immersion of CdS over TiO₂