

Figure S4. XPS Ni 2p spectrum of Ni (OH)₂/TDNW and Ni-MOF/TDNR.

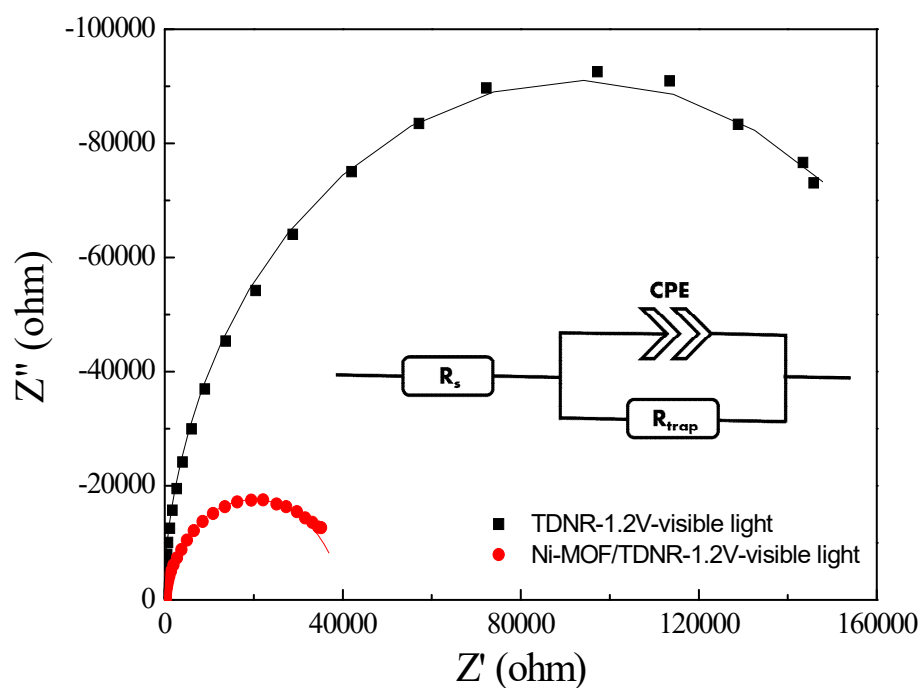


Figure 5. Experimental (symbols) and calculated (solid lines) PEIS diagrams measured at 1.2V/SCE under visible light illumination on bare TDNRs (■) and 0.005M Ni-MOF/TDNR (●) photoelectrodes.

Table S1. Fit parameters of the experimental PEIS spectra of Figure S6 (bare TDNR and 0.005M Ni-MOF/TDNR under visible illumination).

	<i>Element</i>	<i>Value</i>	<i>Error(%)</i>
<i>TDNR</i> <i>1.2V/Vis.</i>	<i>Rs ($\Omega \text{ cm}^2$)</i>	22.0	0.70
	<i>CPE-T (F cm^{-2})</i>	8.3E-6	0.83
	<i>CPE-P</i>	0.98	0.16
	<i>Rct ($\text{k}\Omega \text{ cm}^2$)</i>	186.61	1.48
<i>0.005M</i> <i>Ni-MOF/TDNR</i> <i>1.2V/Vis.</i>	<i>Rs ($\Omega \text{ cm}^2$)</i>	131.5	2.1E-13
	<i>CPE-T (F cm^{-2})</i>	1.6E-5	3.9E-13
	<i>CPE-P</i>	0.91	1.0E-13
	<i>Rct ($\text{k}\Omega \text{ cm}^2$)</i>	39.94	4.1E-13