

Dye-sensitized solar cells containing plasma jet deposited hierarchical nanostructured TiO₂ thin photoanodes

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Electronic Supplementary Information (ESI)

Table S1. Fitted parameters of the Nyquist plots using the equivalent circuit model.

TiO ₂ film	R _S [Ωcm ²]	R _{CE} [Ωcm ²]	Y _{CE} [Scm ⁻² s ⁿ]	n _{CE}	R _{rec} [Ωcm ²]	Y _{rec} [Scm ⁻² s ⁿ]	n _{rec}	W [Scm ⁻² s ^{-0.5}]	χ ²
1.2-μm PA-SJD	5.1	2.8	1.7x10 ⁻³	0.62	38	5.1x10 ⁻⁴	0.96	0.84	2.8x10 ⁻⁵
1.6-μm PA-SJD	2.8	1.9	5.2x10 ⁻³	0.59	33	8.2x10 ⁻⁴	0.96	1.8	6.6x10 ⁻⁵
2.2-μm PA-SJD	4.8	1.3	4.3x10 ⁻⁵	0.89	27	9.5x10 ⁻⁴	0.97	0.29	4.7x10 ⁻⁵
conventional monolayer	2.9	4.0	1.5x10 ⁻³	0.62	15	1.4x10 ⁻³	0.95	0.70	9.1x10 ⁻⁵