

Supplementary information

UV-Cured TiO₂ Electron Transport Layer for Printed Solar Cells

Patricie Heinrichova, Petr Dzik, Jakub Tkacz, Marcela Králová, Martin Vala and Martin Weiter

Table S1 Composition of the nanoparticulate titania coating formulations.

Sample	Stock dispersion of TiO ₂ in ethanol (mL) <i>c</i> = 0.28 g/mL	Silica sol in ethanol (mL) <i>c</i> = 0.28 g/mL	Butanol (mL)	Titania fraction in dry mass (wt. %)
E38-7-60	2.4	1.6	6	60
E38-7-70	2.8	1.2	6	70
E38-7-80	3.2	0.8	6	80
E38-7-90	3.6	0.4	6	90

Table S2 Composition of the stock sol.

Isobutanol	20 mL
Acetyl-aceton	3.8 mL
Titanium tetraisopropoxide	10.3 mL = 9.88 g = 0.035 mol
Ethanol	22.5 mL
Water	0.686 mL

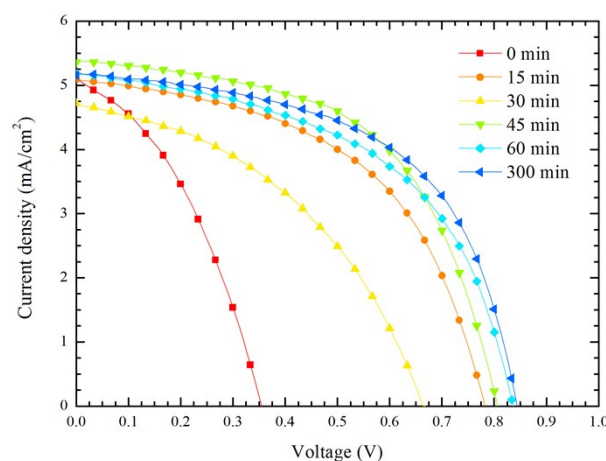


Figure S1 Current density – voltage characteristics of photovoltaic devices with different duration of UV treatment of TiO₂ layer.

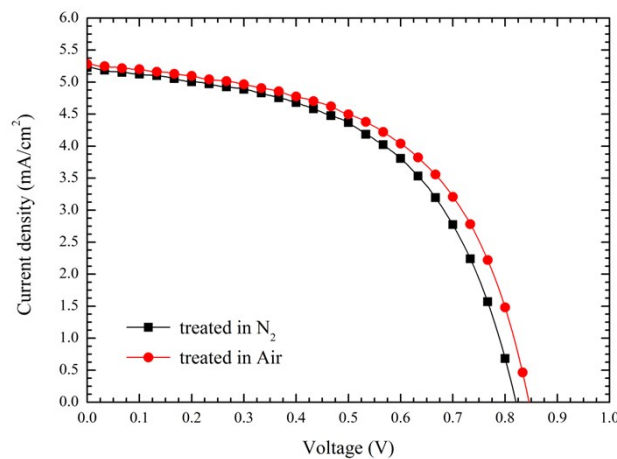


Figure S2 The comparison of current density – voltage characteristics of photovoltaic devices containing the TiO₂ layer treated by UV radiation in air and in nitrogen atmosphere
