

Intrinsic instability of perovskite solar cells: the role of hole-blocking layer

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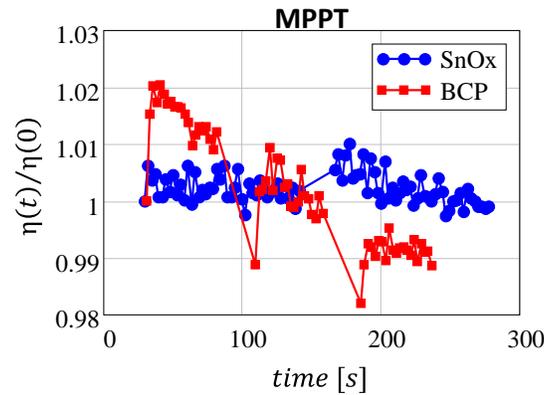


Figure S1. Normalized efficiency during maximum power point tracking (MPPT) experiments.

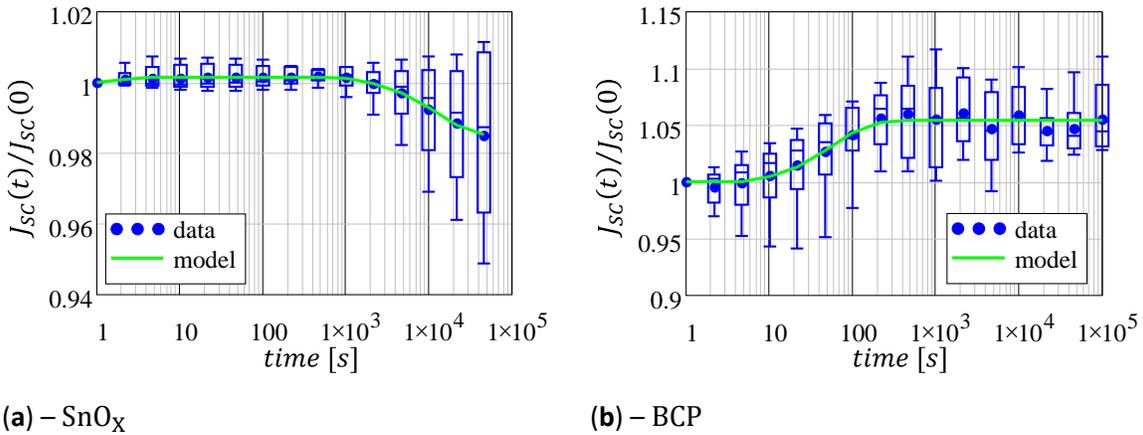
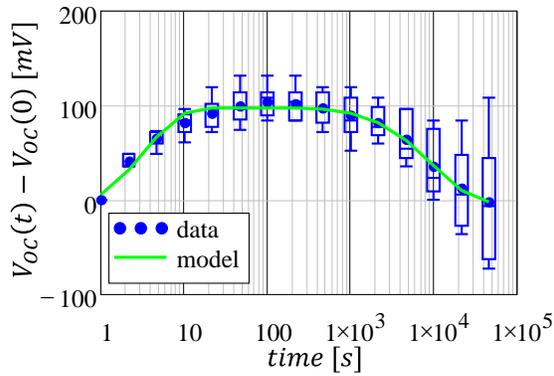
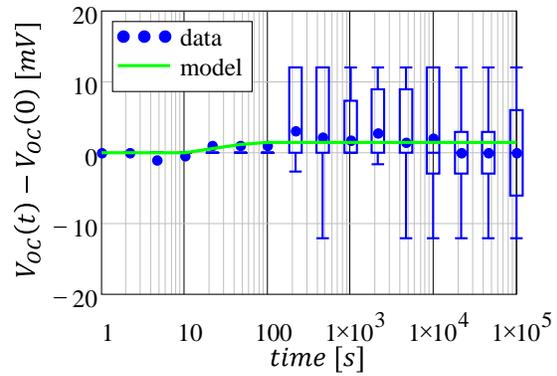


Figure S2. Normalized short circuit current as a function of time for the two architectures under analysis: **(a)** SnO_x-based cells; **(b)** BCP-based cells. Data fitting (green line) was computed using the mean values (blue circles) as data-set.

Supplementary Material

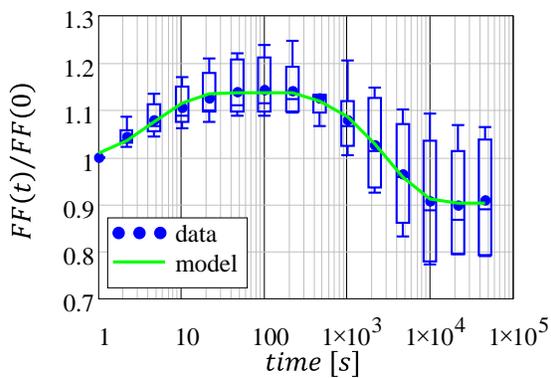


(a) – SnO_x

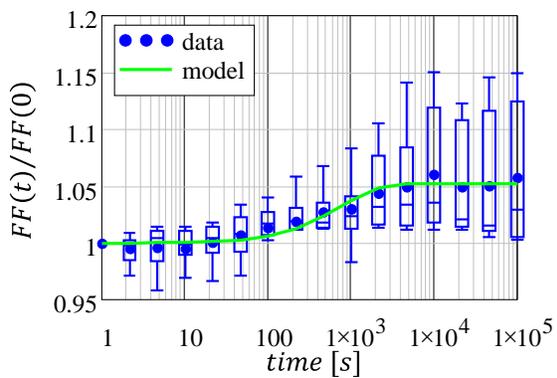


(b) – BCP

Figure S3. Normalized open circuit voltage as a function of time for the two architectures under analysis: (a) SnO_x-based cell; (b) BCP-based cells. Data fitting (green line) was computed using the mean values (blue circles) as data-set.



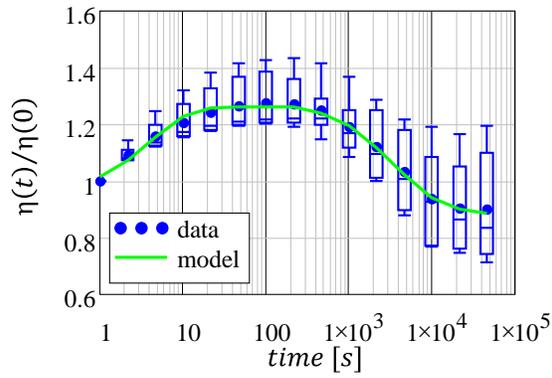
(a) – SnO_x



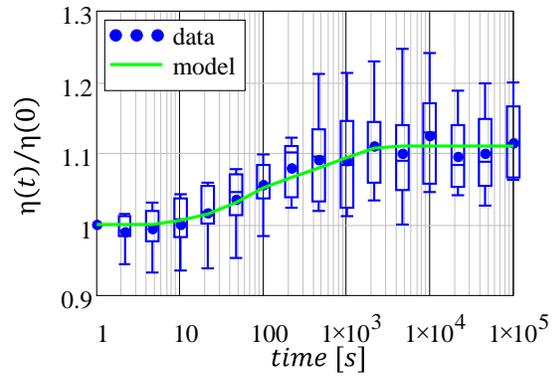
(b) – BCP

Figure S4. Normalized fill-factor as a function of time for the two architectures under analysis: (a) SnO_x-based cells; (b) BCP-based cells. Data fitting (green line) was computed using the mean values (blue circles) as data-set.

Supplementary Material



(a) – SnO_x



(b) – BCP

Figure S5. Normalized power conversion efficiency as a function of time for the two architectures under analysis: **(a)** SnO_x-based cells; **(b)** BCP-based cells. Data fitting (green line) was computed using the mean values (blue circles) as data-set.