Accepted Manuscript

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PII: S0013-4686(18)32214-X

DOI: 10.1016/j.electacta.2018.09.204

Reference: EA 32795

To appear in: *Electrochimica Acta*

Received Date: 30 May 2018

Revised Date: 24 September 2018

Accepted Date: 30 September 2018

Please cite this article as: A. Carella, R. Centore, F. Borbone, M. Toscanesi, M. Trifuoggi, F. Bella, C. Gerbaldi, S. Galliano, E. Schiavo, A. Massaro, A.B. Muñoz-García, M. Pavone, Tuning optical and electronic properties in novel carbazole photosensitizers for p-type dye-sensitized solar cells, *Electrochimica Acta* (2018), doi: https://doi.org/10.1016/j.electacta.2018.09.204.

Tuning optical and electronic properties in novel carbazole photosensitizers for p-type dye-sensitized solar cells

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KEYWORDS: 1. Push-pull dyes • 2. DFT • 3. dye-electrode interface • 4. p-type DSSC