Accepted Manuscript

Titania nanotubes modified by a pyrolyzed metal-organic framework with zero valent iron centres as a photoanode with enhanced photoelectrochemical, photocatalytical activity and high capacitance

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PII: S0013-4686(18)31020-X

DOI: 10.1016/j.electacta.2018.05.015

Reference: EA 31801

To appear in: Electrochimica Acta

Received Date: 21 December 2017

Revised Date: 5 April 2018

Accepted Date: 2 May 2018

Please cite this article as: M. Szkoda, K. Trzciński, A.P. Nowak, E. Coy, L. Wicikowski, M. Łapiński, K. Siuzdak, A. Lisowska-Oleksiak, Titania nanotubes modified by a pyrolyzed metal-organic framework with zero valent iron centres as a photoanode with enhanced photoelectrochemical, photocatalytical activity and high capacitance, *Electrochimica Acta* (2018), doi: 10.1016/j.electacta.2018.05.015.

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H-TiO₂ nanotubes H-TiO₂/pEDOT:Fehcf H-TiO₂@C:Fe EDOT Electrodeposition and Fehcf incorporation 0,0,0[0][0][0][0][0] <u>(Δ</u>T) 0)(0)(0)(0) (0)(0)(0)(0 O(O)ONC MOF H-TiO_e e) CH 400 $H_2 O \rightarrow O_2 + H^* + 0$ 'V vs Ag/AgCI (0.1 M 5 300 light off *j l* µA cm² ပ္^{• 0.6} 0.4 100 light on light on ш -1.0 120 180 60 80 100 120 140 160 time / min 240 15 t/s 20 40 Ó 20 POLLUTIONS **SUPERCAPACITORS** WATER SPLITTING PHOTODEGRADATION

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