Accepted Manuscript

Three-dimensional hierarchical porous TiO_2/graphene aerogels as promising anchoring materials for lithium–sulfur batteries

Jia Wang, Cuimei Fu, Xiaofei Wang, Yimin Yao, Minglin Sun, Lina Wang, Tianxi Liu

PII: S0013-4686(18)32096-6

DOI: 10.1016/j.electacta.2018.09.109

Reference: EA 32641

To appear in: *Electrochimica Acta*

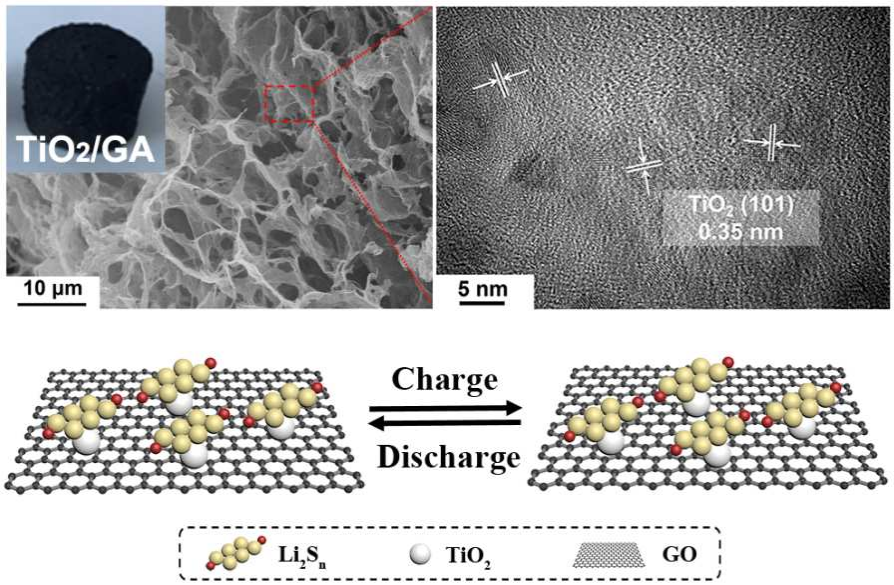
Received Date: 9 April 2018

Revised Date: 7 August 2018

Accepted Date: 16 September 2018

Please cite this article as: J. Wang, C. Fu, X. Wang, Y. Yao, M. Sun, L. Wang, T. Liu, Three-dimensional hierarchical porous TiO_2/graphene aerogels as promising anchoring materials for lithium–sulfur batteries, *Electrochimica Acta* (2018), doi: https://doi.org/10.1016/j.electacta.2018.09.109.

Graphical abstract



A three-dimensional TiO_2/graphene aerogel (TiO_2/GA) composite with hierarchical porous structure, showing strong interfacial chemical and physical interactions with soluble polysulfide intermediates (Li_2S_n, $4 \leq n \leq 8$), is effectively applied as a promising anchoring material for lithium–sulfur batteries.