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Electrospinning synthesis of high performance carbon nanofiber coated flower-like MoS_2 nanosheets for dye-sensitized solar cells counter electrode

Ling Li [a,b], Xue Zhang [a], Dongyang Wang [a], Wenming Zhang [a*], Xiaowei Li [a], Xiaohui Zhao [a*], Qinghua Zhang [c*], Lin Gu [c,d,e*], Ze Yu [f*], Mingxing Wu [g*]

[a]*Hebei Key Lab of Optic-electronic Information and Materials, College of Physics Science and Technology, Hebei University, Baoding 071002, China*

[b]*State Key Laboratory of Fine Chemicals, Dalian University of Technology, Dalian 116024, China*

[c]*Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, Beijing 100190, P. R. China.*

[d]*Collaborative Innovation Center of Quantum Matter, Beijing 100190, China.*

[e]*School of Physical Sciences, University of Chinese Academy of Sciences, Beijing 100049, China.*

State Key Laboratory of Fine Chemicals, Institute of Artificial Photosynthesis, DUT-KTH Joint

[f]*Education and Research Center on Molecular Devices, Dalian University of Technology (DUT), Dalian 116024, China.*

[g]*College of Chemistry and Material Science, Key Laboratory of Inorganic Nano-materials of Hebei Province, Hebei Normal University, No. 20 Rd. East of 2nd Ring South, Yuhua District, Shijiazhuang City, Hebei Province, 050024, P. R. China.*

Abstract: Molybdenum sulfide/carbon nanofibers (MoS_2/CNFs) composite with high density of flower-like nanosheets are prepared via the combination of electrospinning technology and hydrothermal method. The MoS_2/CNFs composite exhibits good performance as a counter electrode (CE) in dye-sensitized solar cells (DSSCs). The DSSCs employing MoS_2/CNFs delivers a power conversion efficiency (PCE) of