Renewable Energy and Resources Energy Materials and Fuel Cell Research

August 27-28, 2018 | Boston, USA

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Recently, the rapid development of the modern electronics gives rise to higher demands on the exible and wearable energy resources1–3. It is urgently needed to develop energy devices which are lightweight, thin and exible. In this regard, these years, many e orts have been made to integrate energy devices by combining solar cells and ESC or repeatedly recharges lithium-ion batteries4-7. Up to now, most of the work mainly focuses on the incorporation of a dye-sensitized solar cell (DSSC) with chemical battery power packs which based on di erent substrate materials and structure design. However, the sealing requirement of the DSSC devices made the fabrication very complex to prevent the electrolyte leakage and evaporation. I addition, the performance of the DSSC still could not meet the ideal requirement of energy storage devices, leading to a low overall energy conversion and storage e ciency. Here, we report an ultrathin exible photo-charging power pack that integrates

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