Electronic Supplementary Information

Facilely fabricated electrochemical self-powered pressure sensor

for multifunctional applications

Zekai Huang, Zaihua Duan*, Qi Huang, Zhen Yuan, Yadong Jiang and Huiling Tai*

State Key Laboratory of Electronic Thin Films and Integrated Devices, School of

Optoelectronic Science and Engineering, University of Electronic Science and Technology of

China (UESTC), Chengdu 610054, P. R. China

Corresponding authors: Zaihua Duan, Huiling Tai

E-mail: zaihuaduan@uestc.edu.cn, taitai1980@uestc.edu.cn



Fig. S1 (a) EDS mappings of the LiCl paper. (b) Cl element distribution.



Fig. S2 Current response and recovery curve of the sensor under 30 kPa and 0 kPa.



Fig. S3 (a) Response curve of the sensor under rapid continuous finger pressing. (b) Magnified view of (a).



Fig. S4 Voltage curves of different capacitors charged by a sensor (0 kPa).



Fig. S5 Repeated voltage curve of a capacitor charged by a sensor (0 kPa).



Fig. S6 Output voltage values of different numbers of sensors connected in series (0 kPa).



Fig. S7 Repetitive voltage curve of a capacitor charged by eight sensors connected in series (0 kPa).



Fig. S8 Photographs of the lighting LED with a charged capacitor.



Fig. S9 Loss changes of machine learning model during training.