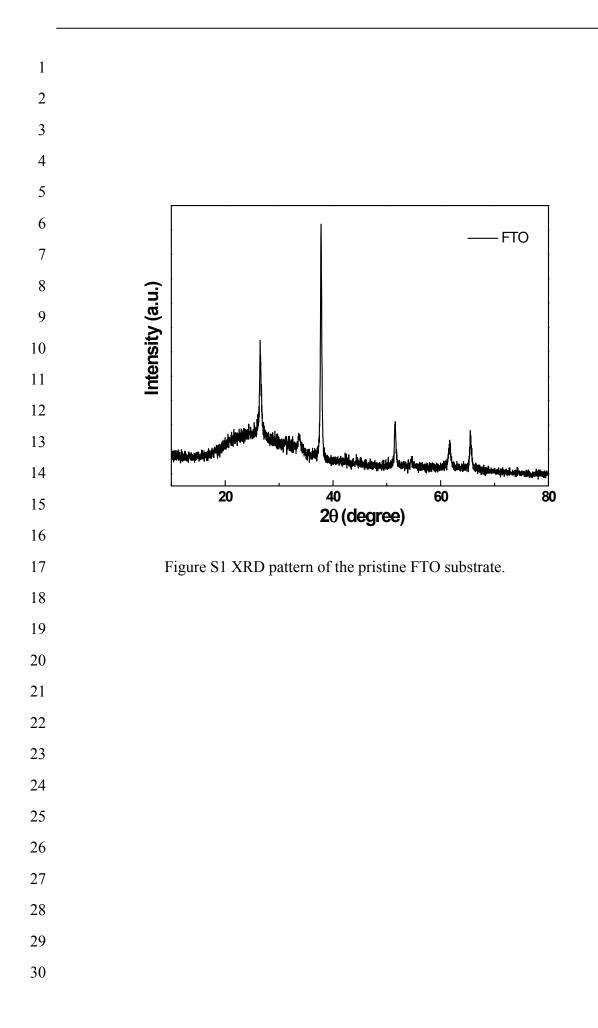
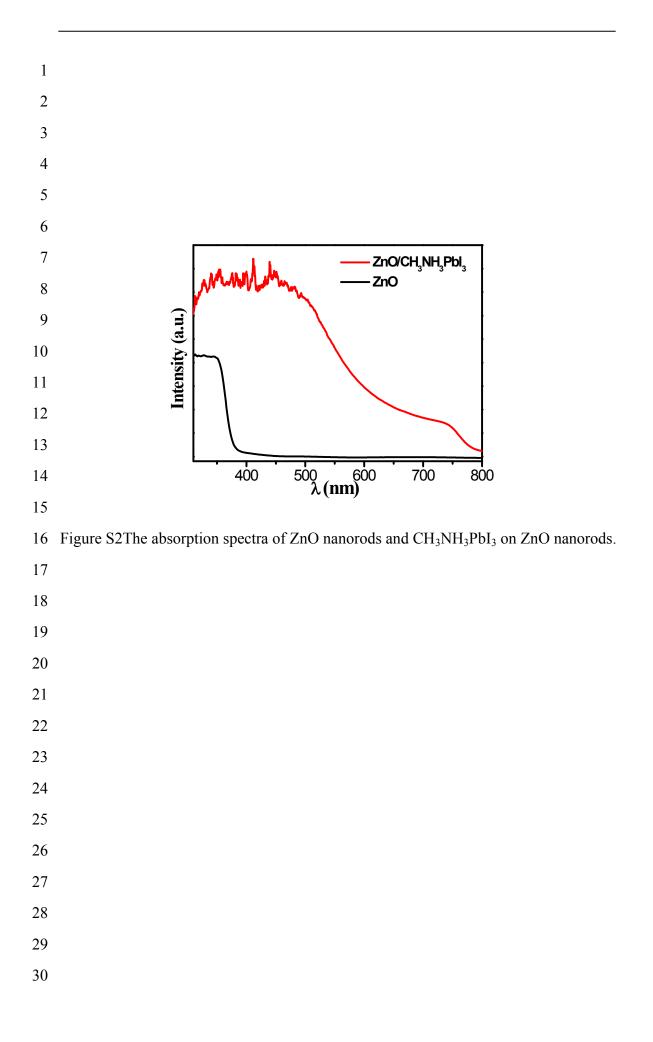
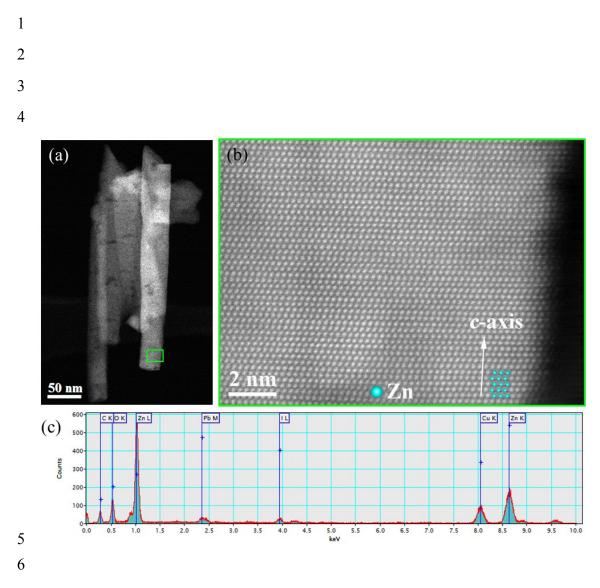
1	High-performance self-powered broadband photodetector
2	based on CH ₃ NH ₃ PbI ₃ Perovskite/ZnO nanorod arrays
3	heterostructure
4	
5 6 7 8	Jichao Yu ^{a,+} , Xu Chen ^{a,+} , Yi Wang ^{b,+} , Hai Zhou ^a , Mengni Xue ^a , Yang Xu ^a , Zhaosong Li ^a , Cong Ye ^a , Jun Zhang ^a , Peter A. van Aken ^b , Peter D. Lund ^{a,c} , Hao Wang ^{a,*}
9	^a Hubei Collaborative Innovation Center for Advanced Organic Chemical Materials,
10	Faculty of Physics and Electronic Science, Hubei University, Wuhan 430062, China
11	^b Stuttgart Center for Electron Microscopy, Max Planck Institute for Solid State
12	Research, Heisenbergstr. 1, 70569 Stuttgart, Germany
13	^c Department of Applied Physics, Aalto University, FI-00076 Aalto, Espoo, Finland
14	
15	*Corresponding author. E-mail address: nanoguy@126.com
16	⁺ These authors contribute equally to this work.
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	







7 Figure S3 High-angle annular dark-field (HAADF) scanning transmission electron 8 microscopy (STEM) images and EDXS analysis. (a) Low magnification HAADF-9 STEM image of ZnO-nanorods. (b) Atomic-column resolved HAADF image of a 10 ZnO nanorod of the highlighted area in Fig. S2 (a). An atomic structure model of the 11 hexagonal phase of ZnO along [010] projection is superimposed on the HAADF 12 image. (c) STEM-EDXS spectrum of ZnO nanorods in Fig.S2 (a), in which Pb-*M* and 13 I-*L* lines are clearly visible.

- 14
- 15
- 16
- 17

