## **Electronic supplementary information**

## Theoretical investigation on armchair silicene nanoribbons with application in stretchable electronics

Tengying Ma<sup>a</sup>, Shizheng Wen<sup>b</sup>, Caixia Wu<sup>a</sup>, Likai Yan<sup>\*a</sup>, Min Zhang<sup>\*a</sup>, Yuhe Kan<sup>b</sup> and Zhongmin Su<sup>\*a</sup>

 <sup>a</sup> Institute of Functional Material Chemistry, Faculty of Chemistry, Northeast Normal University, Changchun 130024, P. R. China. E-mail: yanlk924@nenu.edu.cn; mzhang@nenu.edu.cn; zmsu@nenu.edu.cn
<sup>b</sup> Jiangsu Province Key Laboratory for Chemistry of Low-Dimensional Materials, School of Chemistry and Chemical Engineering, Huaiyin Normal University, Huaian, 223300, People's Republic of China

E-mail: yanlk924@nenu.edu.cn; mzhang@nenu.edu.cn; zmsu@nenu.edu.cn



Fig. S1 The band structures of deformed SiNRs for  $\theta = 10^{\circ} \sim 120^{\circ}$ .