

Supplementary Data

Spin-dependent electronic transport properties of zigzag Silicon Carbon nanoribbon

Yipeng An^{*a}, Mengjun Zhang^a, Lipeng Chen^b, Congxin Xia^{*a}, Tianxing Wang^a,

Zhaoming Fu^{ac}, Zhaoyong Jiao^a, Guoliang Xu^a

^aCollege of Physics and Electronic engineering, Henan Normal University, Xinxiang 453007, China.

E-mail address: ypan@htu.edu.cn; xiacongxin@htu.edu.cn; Fax: +86 373 3329346.

^bDivision of Materials Science, Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798, Singapore.

^cBeijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, Beijing 100190, China.

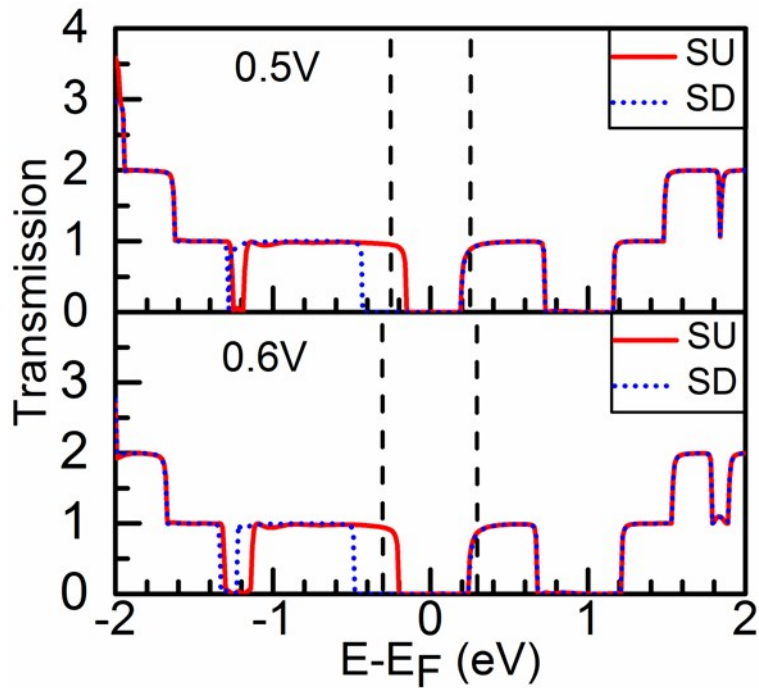


Figure S1. The spin-dependent transmission spectra of the FM state under the biases of 0.5 and 0.6 V. The black dotted lines refer to the bias window.

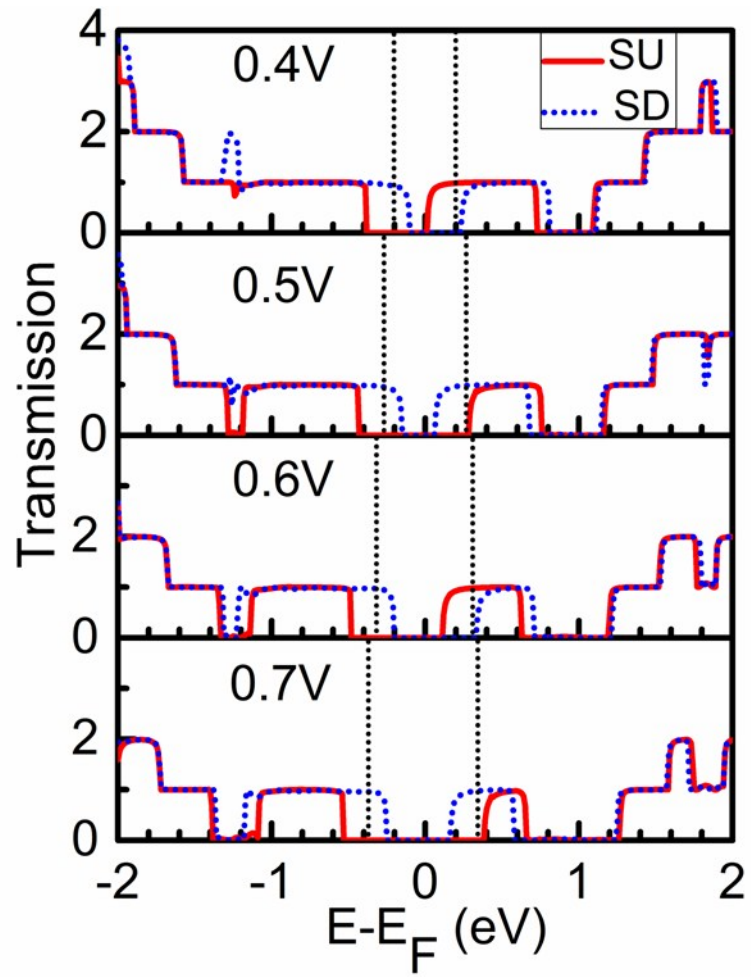


Figure S2. The spin-dependent transmission spectra of the AFM state under the biases of 0.4, 0.5, 0.6, and 0.7 V, respectively.