Electronic Supplementary Information

Electronic, magnetic properties of black phosphorene/Tl_2S heterostructure with transition metal atoms intercalation: a first-principles study

Yusheng Wang[*a,c], Xiaoyan Song [a], Nahong Song[b,c], Tianjie Zhang[a], Xiaohui Yang[a], Weifen Jiang[a], Jianjun Wang[d]

[a] *College of Physics and Electronics, North China University of Water Resources and Electric Power, Zhengzhou, Henan, 450046, China*

[b] *College of Computer and Information Engineering, Henan University of Economics and Law, Zhengzhou, Henan, 450000, China*

[c] *International Joint Research Laboratory for Quantum Functional Materials of Henan, and School of Physics and Engineering, Zhengzhou University, Zhengzhou 450001, China*

[d] *College of Science, Zhongyuan University of Technology, Zhengzhou 450007, China*

Corresponding author: wangyusheng@ncwu.edu.cn

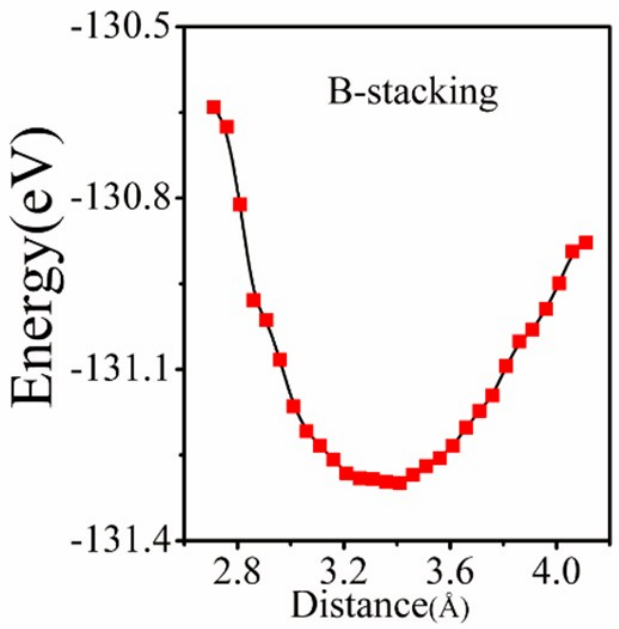

Fig. S1. The total energies as a function of the distance between black phosphorene and Tl_2S of BP/Tl_2S.

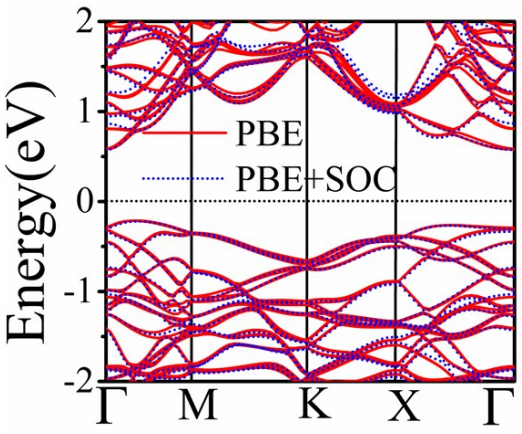

Fig. S2. Band structures for BP/Tl_2S heterostructure with and without SOC effect.

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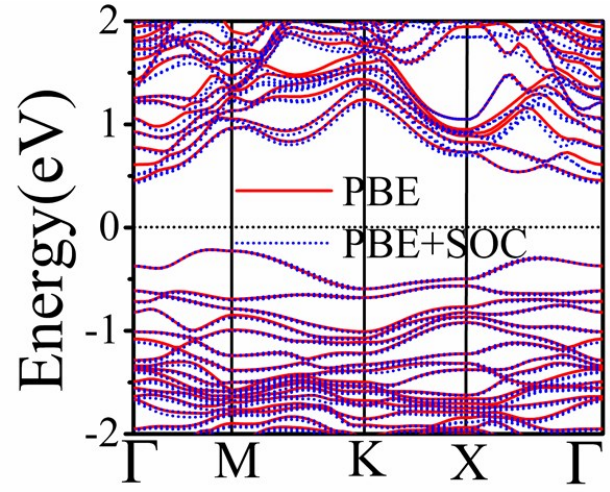

Fig. S3. Band structure for Ni-BP/Tl_2S with and without SOC effect.

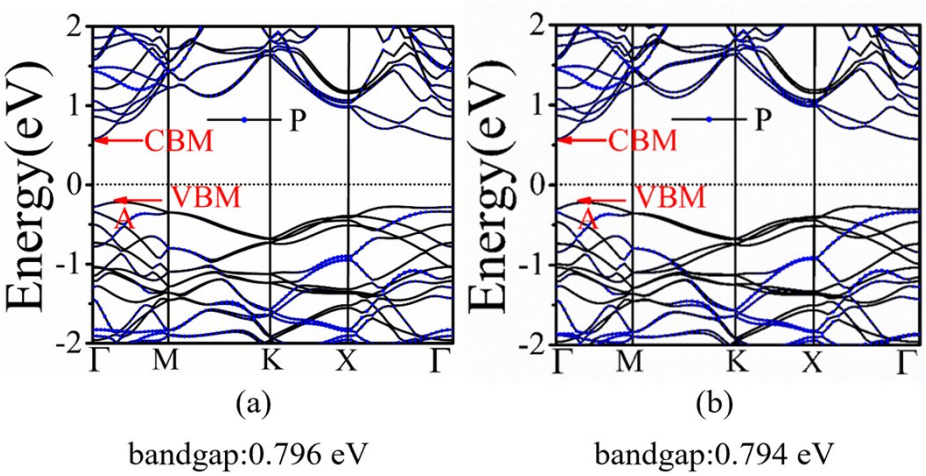

Fig. S4. Band structures for BP/Tl_2S (a) A-stacking, (b) B-stacking