Supporting information

Construction of Au@MoS₂ composite nanosheets biosensor for the ultrasensitive detection of neurotransmitter and Understanding of its mechamism based on DFT calculations Kaida Lu^{a, #}, Jiamei Liu^{a, #}, Xinyue Dai^b, Li Zhao^a, Yufei Yang^a, Hui Li^a, Yanyan

Jiang^{a, c, *}

^a Liquid-Solid Structural Evolution & Processing of Materials (Ministry of Education),
School of Materials Science and Engineering, Shandong University, Jinan, Shandong,
250061, P. R. China

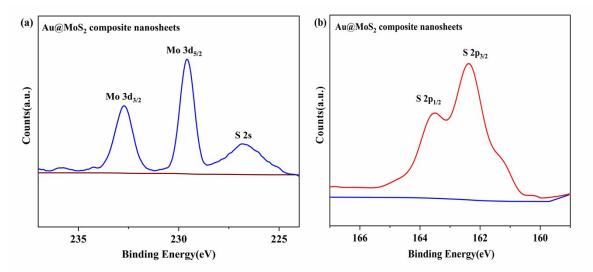
^b School of Life Sciences, Shanghai University, Shanghai, 200444, P. R. China

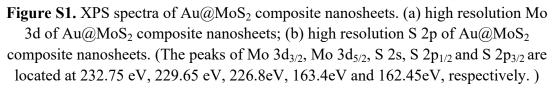
^c Shenzhen Research Institute of Shandong University, Shenzhen, Guangdong,
518000, P. R. China

* Corresponding author.

E-mail addresses: <u>yanyan.jiang@sdu.edu.cn</u> (Y. Y. Jiang).

[#] The authors contributed equally to this work.





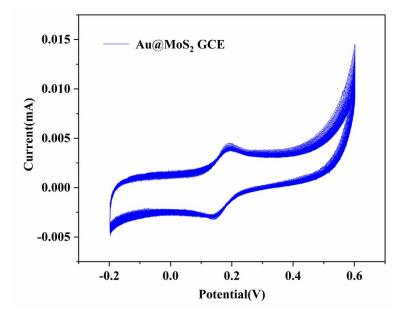


Figure S2. CV curves of Au@MoS₂/GCE cyclic detection (50 cycles) in PBS (pH=7.0, 0.1M) containing 150 µM DA.