Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics. This journal is © the Owner Societies 2020

Electronic Supplementary Information

Graphyne-Anchored Single Fe Atoms as Efficient CO Oxidation Catalyst as Predicted by DFT Calculations

Jiapeng Ma, a,c Si Wu, a Yuan Yuan, a Hui Mao, b Jin Yong Leea,c, and Baotao Kang,a,t

^a School of Chemistry and Chemical Engineering, University of Jinan, Jinan, Shandong 250022, P. R. China E-mail: chm kangbt@ujn.edu.cn

b Pharmaceutical and Material Engineering School, Jinhua Polytechnic, Jinhua, 321007, Zhejiang, P. R. China. E-mail: maohui1988@126.com

^c Department of Chemistry, Sungkyunkwan University, Suwon, 16419, Republic of Korea
E-mail: jinylee@skku.edu

Table of contents

- 1. Optimized structures and binding energies of all studied single Fe atom adsorbed on pristine 2D α Gy.
- 2. Calculated deformation electron densities of Fe atom adsorbed on pristine (left) and SAV- α Gy.

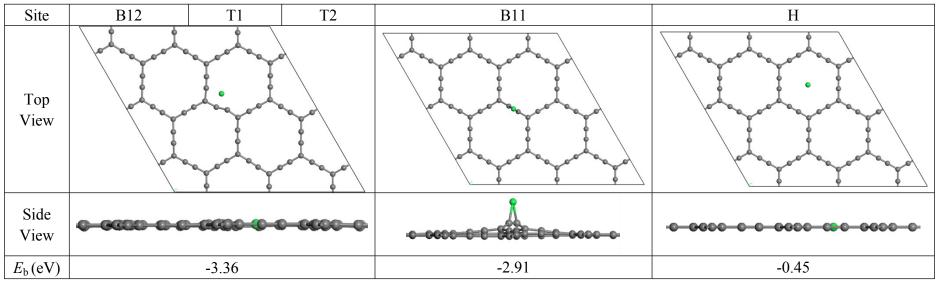


Figure S1. Optimized structures and binding energies of all studied single Fe atom adsorbed on pristine 2D αGy.

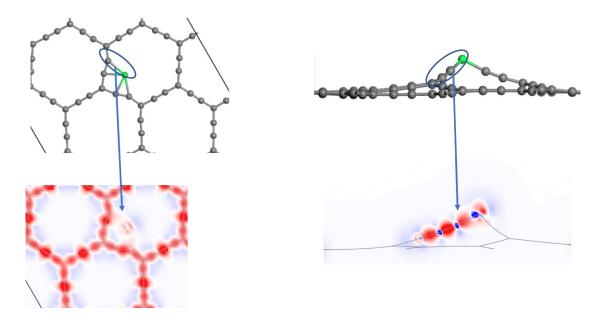


Figure S2 Calculated deformation electron densities of Fe atom adsorbed on pristine (left) and SAV- α Gy.