"Supplementary Materials"

Catalytic role of graphitic nitrogen atoms in CO oxidation reaction over N-containing graphene: a first-principles mechanistic evaluation

Mehdi D. Esrafili*,a, Parisasadat Mousavian a,b

^a Department of Chemistry, Faculty of Basic Sciences, University of Maragheh, P.O. Box 55136-553, Maragheh, Iran
^b Department of Chemistry, Azarbaijan Shahid Madani University, Tabriz, Iran

^{*} Corresponding author. **E-mail**: $\underline{esrafili@maragheh.ac.ir}$ (M. D. Esrafili).

Figure S1. (a) Coadsorbed configuration of O_2/CO and the related adsorption energy, and (b) the energy profile and relevant bond distances (in Å) for the formation of OOCO intermediate through the LH mechanism on N_4 -Gr

