



## Superior Electrocatalytic Activity of MoS<sub>2</sub>-Graphene as Superlattice

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Figure S1. Lateral size (a) and height (b) of MoS2 nanoparticles present on MoS2/G.



**Figure S2.** EDX analysis of S, Mo, C and O for the MoS<sub>2</sub>/G particles shown in the TEM image (left frame).







Figure S3. XRD spectrum of MoS<sub>2</sub>/G.



**Figure S4.** Frontal view (a and b) and height profiles (c and d) along the white lines of r-MoS<sub>2</sub>/polystyrene (a and c) and r-MoS<sub>2</sub>/G (b and d).



Figure S5. TEM at different magnifications and selected area electron diffraction of r-MoS<sub>2</sub>/G.







Figure S6. TEM image (left) and EDS analysis of C, S and Mo for r-MoS<sub>2</sub>/G.