Supplementary Information

MOF-derived (MoS$_2$, γ-Fe$_2$O$_3$)/graphene Z-scheme photocatalysts with excellent activity for oxygen evolution under visible light irradiation

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Fig. S1 XRD pattern of FG.

Table S1 Element content of the MFG purified with aqua regia.

| sample | elemental concentration (mg/L) | elemental actual loading ω (wt%) |
|--------|-------------------------------|---------------------------------|
|        | Mo   | S     | Fe     | Mo | S | Fe |
| MFC    | 0.313 | 1.354 | 8.898  | 1.4 | 5.9 | 40.4 |

Fig. S2 UV-visible diffuse reflectance spectroscopy of MIL-101, MM, FG and MFG