Supplementary Information

Highly efficient visible light photocatalytic activity of MoS$_2$-TiO$_2$ mixtures hybrid photocatalyst and functional properties

M. Sabarinathan$^{a,b}$, S. Harish$^{a,b}$, J. Archana$^c$, M. Navaneethan$^b$,

H. Ikeda$^b$, Y. Hayakawa$^{a,b}$

$^a$Graduate School of Science and Technology, Shizuoka University, 3-5-1 Johoku, Naka-ku, Hamamatsu, Shizuoka 432-8011, Japan.

$^b$Research Institute of Electronics, Shizuoka University, 3-5-1 Johoku, Naka-ku, Hamamatsu, Shizuoka 432-8011, Japan.

$^c$SRM Research Institute, Department of Physics and Nanotechnology, SRM University, Kattankulathur, Chennai, 603203, Tamilnadu, India.
Fig. S1. XRD spectra of sample S4 after photocatalytic reaction.

Fig. S2. XPS spectra of (a4) Mo 3d, (b4) S 2p, (c4) Ti 3p and (d3) O 1s state of sample S4 after photocatalytic reaction.