Electronic Supplementary Material (ESI) for New Journal of Chemistry. This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2020

Supporting Information for

MoS₂-wrapped Mn_{0.2}Cd_{0.8}S nanospheres towards efficient photocatalytic H₂

generation and CO₂ reduction

Jiaqian Lu, Zhe Zhang, Lin Cheng and Hong Liu*

Department of Chemical Engineering, School of Environmental and Chemical

Engineering, Shanghai University, 99 Shangda Road, Shanghai 200444, PR China

*Corresponding Author:

liuhong@shu.edu.cn (H. Liu)

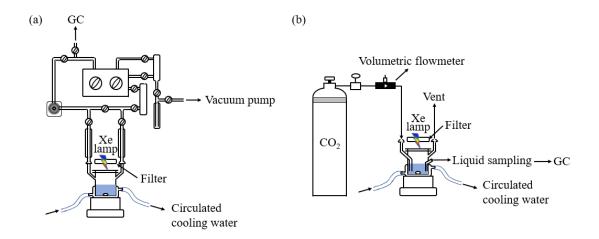


Fig. S1 Schematic of experimental setup for (a) photocatalytic H_2 production and (b)

photocatalytic reduction of CO₂

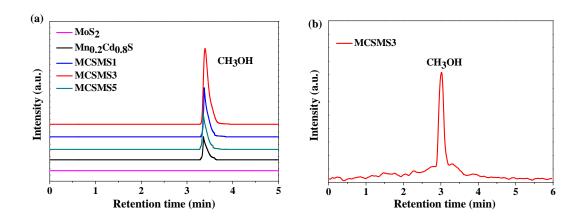


Fig. S2 (a) GC chromatograms and (b) HPLC chromatogram for the as-synthesized

samples after 4 h of irradiation

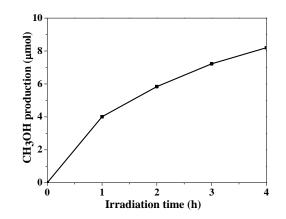


Fig. S3 Time courses of CH₃OH production over MCSMS3 using NaHCO₃ (0.1 M)

instead of bubbling CO₂