Electronic Supplementary Material (ESI) for CrystEngComm

Nanoparticle Heterojunctions in ZnS/ZnO Hybrid Nanowires for Visible-Light-Driven Photocatalytic Hydrogen Generation

Zheng Wang,[a] Shao-wen Cao,[a] Say Chye Joachim Loo,[a]* and Can Xue[a]*

Solar Fuels Laboratory, School of Materials Science and Engineering, Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798, Singapore.

E-mail: cxue@ntu.edu.sg, joachimloo@ntu.edu.sg

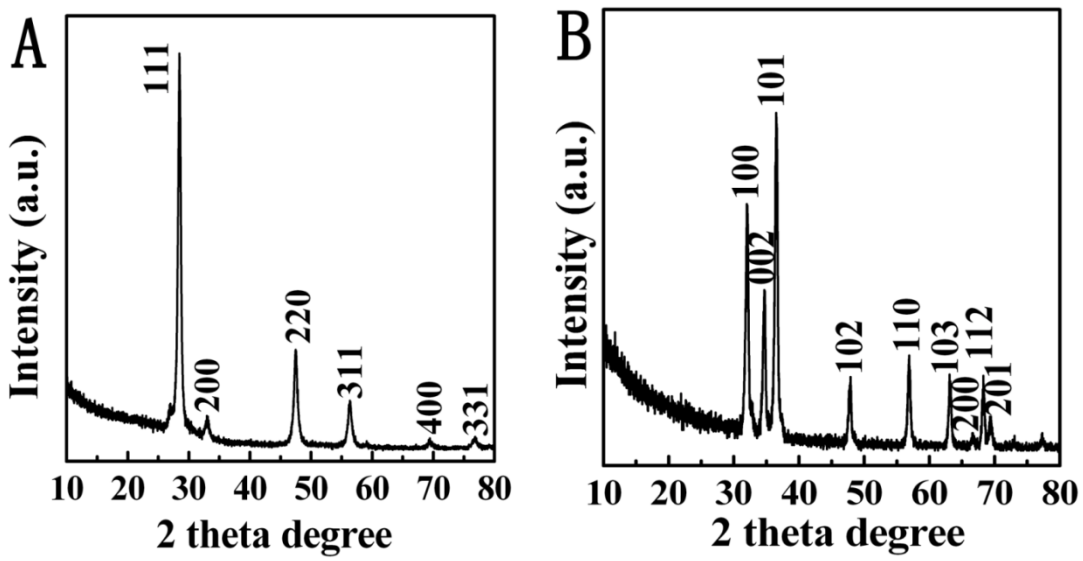

Fig S1. XRD patterns of commercial (A) ZnS and (B) ZnO.

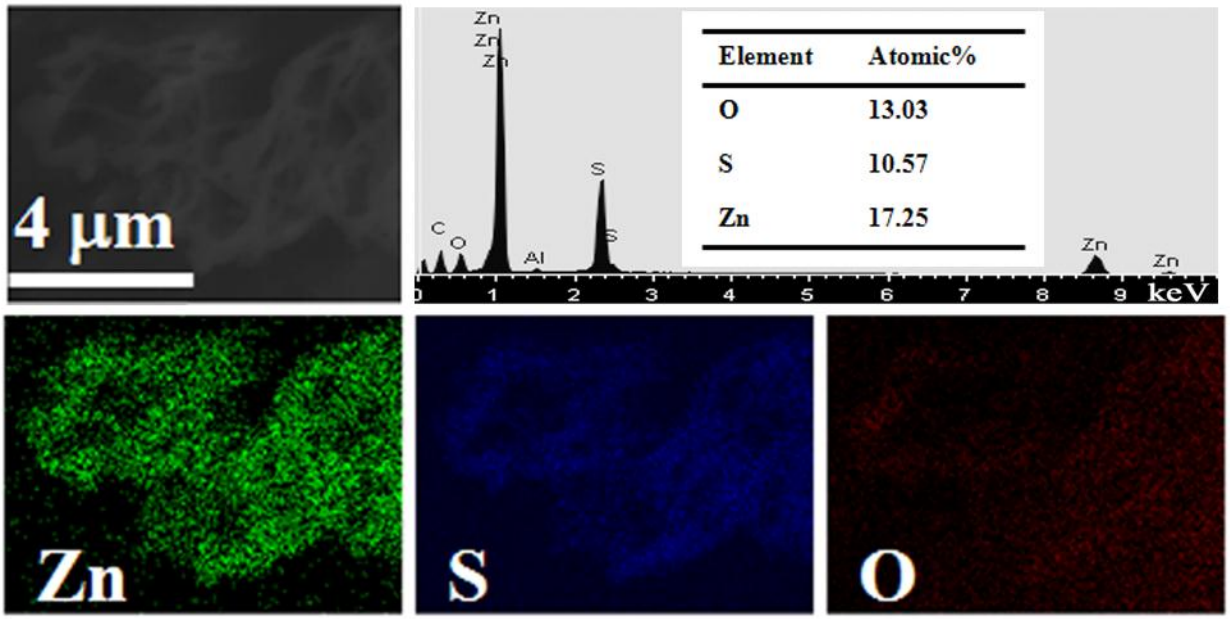

Fig S2. Elemental mapping of Zn, S and O in ZnS/ZnO hybrid nanowires.

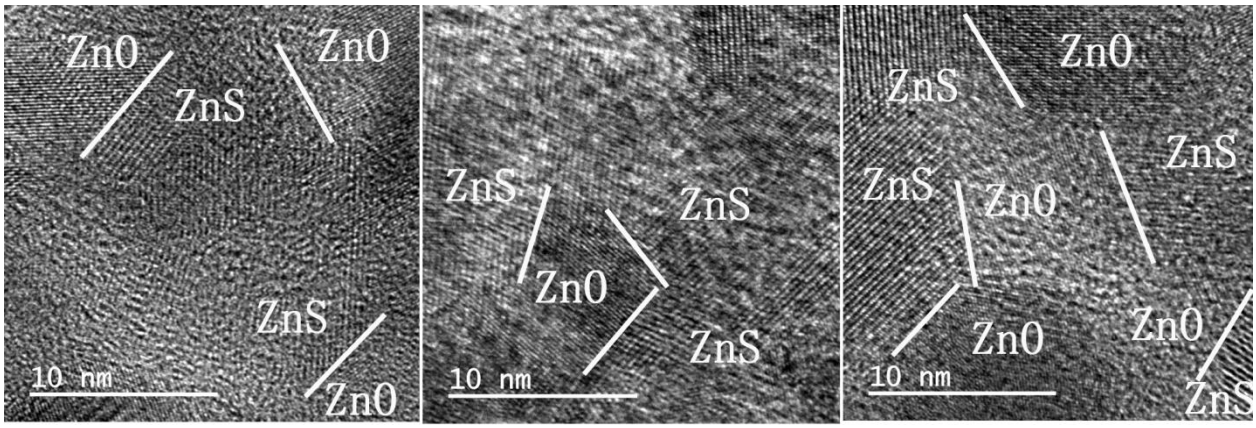

Fig S3. HRTEM images of ZnS/ZnO nanoheterostructure.

Table S1 EDS elemental ratio of the ZnS/ZnO nanocomposites with different reaction time

Sample	S:Zn Atomic%	ZnS: ZnO molar ratio
ZZ-10h	0.570	1.33:1
ZZ-15h	0.568	1.31:1