

Cite this: DOI: 10.1039/c3ra42525h

Supplementary Information

Photocatalytic Hydrogen Production from Aqueous $\text{Na}_2\text{SO}_3 + \text{Na}_2\text{S}$ Solution with B/CuO/ZnO under Visible Light Irradiation†

Paramasivan Gomathisankar,^{a,*} Katsumasa Hachisuka,^a Hideyuki Katsumata,^a Tohru Suzuki,^b Kurihiro Funasaka,^c and Satoshi Kaneco^{a,b,*}

⁵ Received 22nd May 2013, Accepted 27th August 2013

DOI: 10.1039/c3ra42525h

^a Department of Chemistry for Materials, Graduate School of Engineering, Mie University, Tsu, Mie 514-8507, Japan.

^b Environmental Preservation Center, Mie University, Tsu, Mie 514-8507, Japan.

¹⁰ ^c Osaka City Institute of Public Health and Environmental Sciences, Department of Atmospheric Environment, Osaka 543-0026, Japan

*E-mail: chemsankar79@gmail.com; kaneco@chem.mie-u.ac.jp.

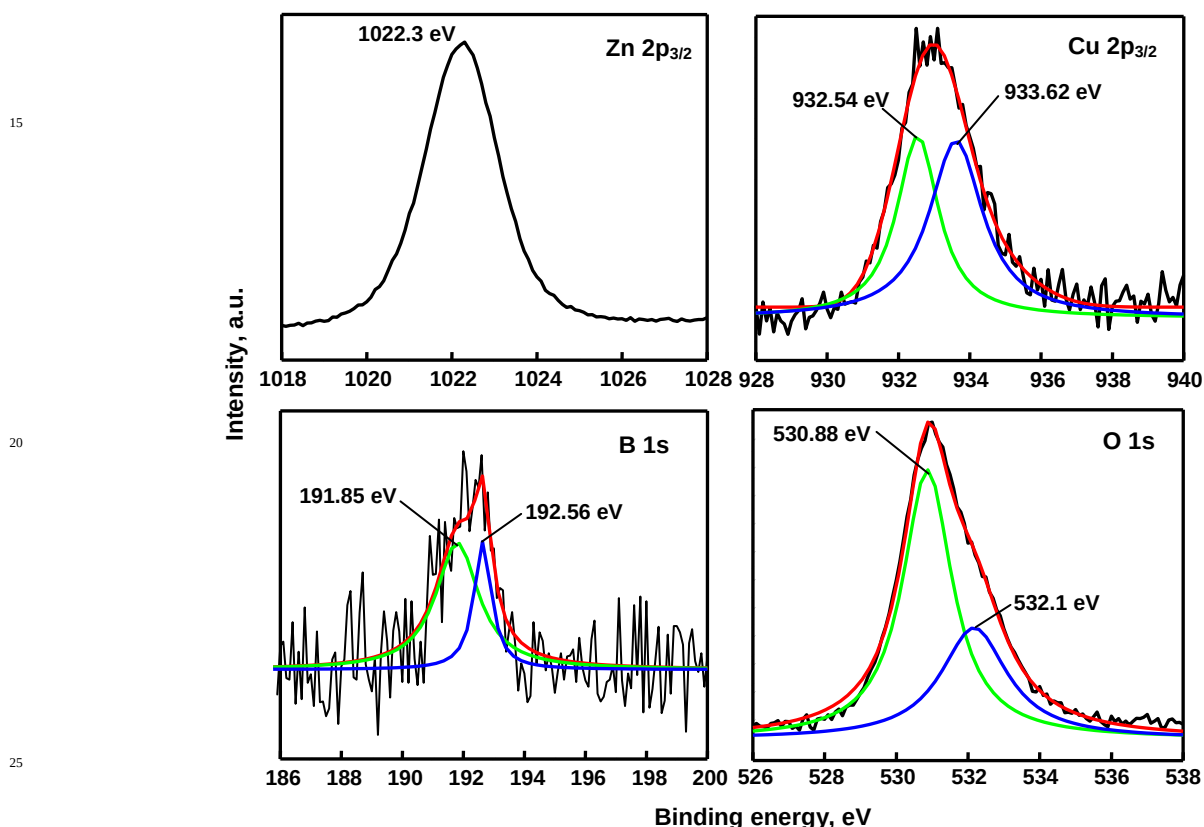


Fig. S1 X-ray photoelectron spectra for B/(20%)CuO/ZnO.

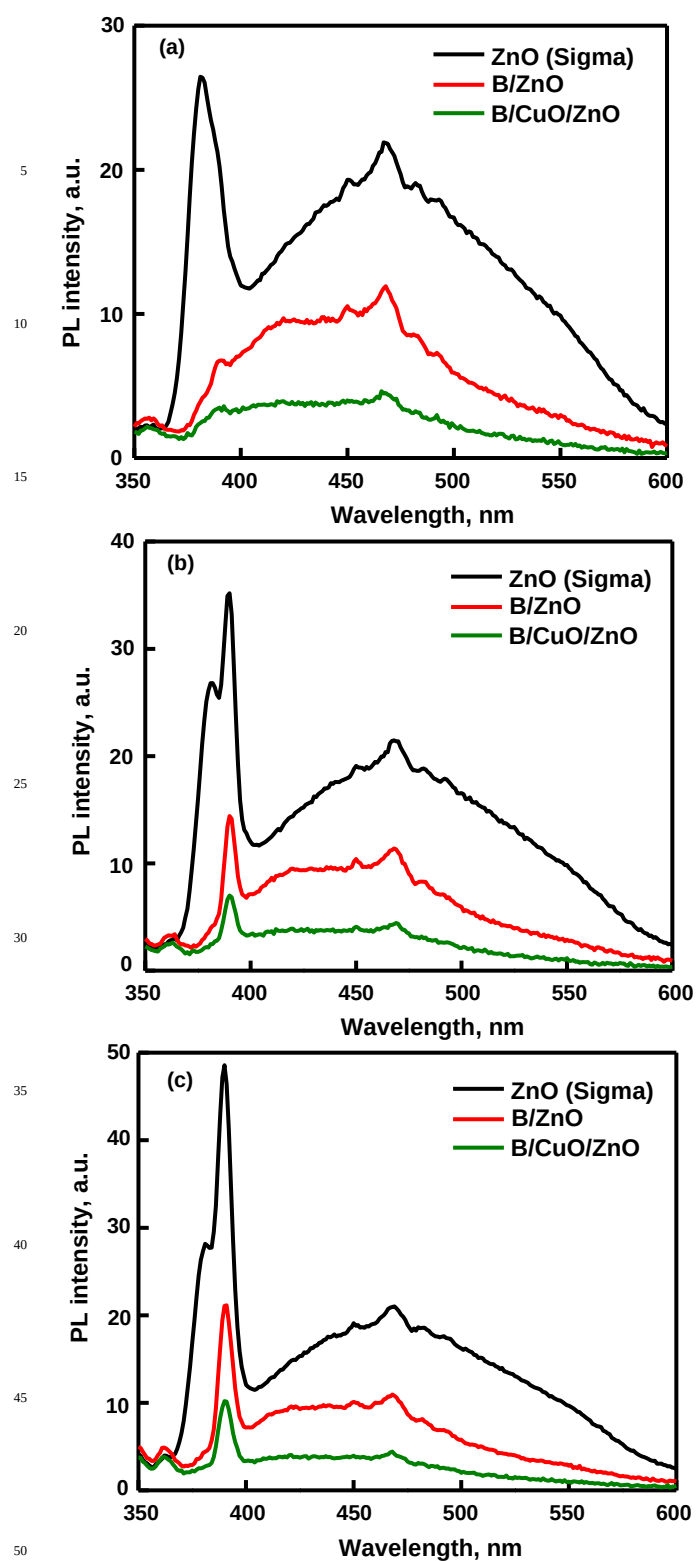


Fig. S2 Photoluminescence spectra for Sigma-ZnO, B/ZnO and B/CuO/ZnO. Excitation source; (a) 330 nm, (b) 335 nm, and (c) 340 nm.