

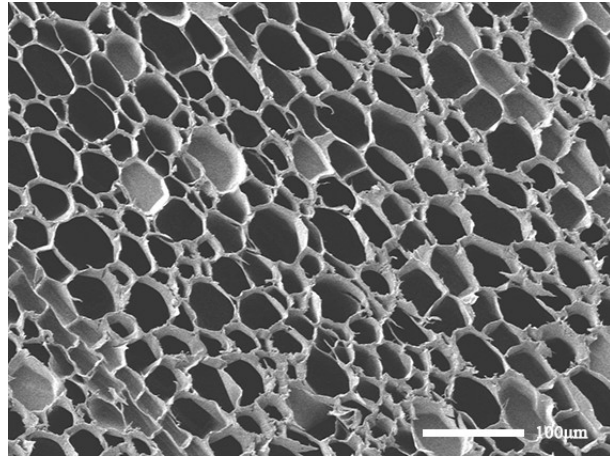
## **A dual-functional catalyst: Wood-templated BiVO<sub>4</sub>-CdS for wood dye wastewater**

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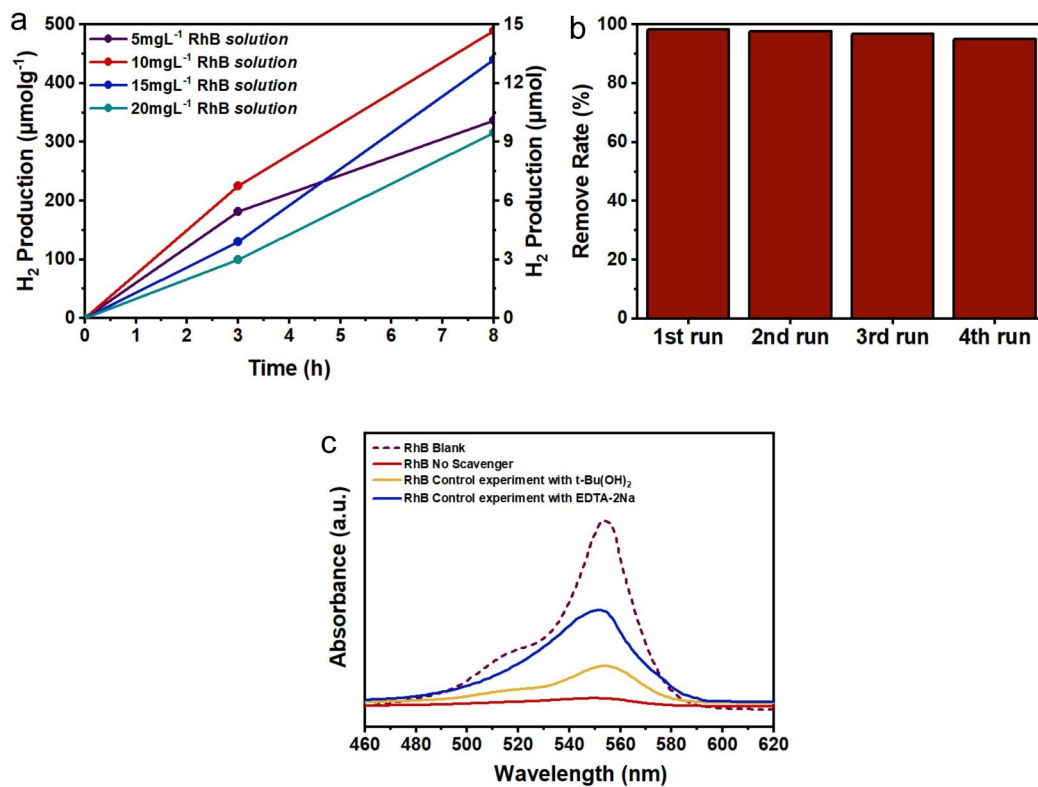
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**Figure S1.** SEM image of the original balsa wood.



**Figure S2.** Photocatalytic hydrogen production of BBC-3 in aqueous RhB solutions with different concentrations (a); Cycle runs of RhB degradation over the BBC-3 under visible light irradiation for 4h (b); Trapping experiments of active species (c).

**Table S1**

Absorption wavelength and band gap of the prepared catalysts.

Sample	Absorption wavelength (nm)	Band gap (eV)
BiVO <sub>4</sub>	510.80	2.47
CdS	584.60	2.27
BC	546.72	2.44
BBC-1	561.6	2.39
BBC-2	573.65	2.33
BBC-3	579.12	2.31
BBC-4	569.05	2.36