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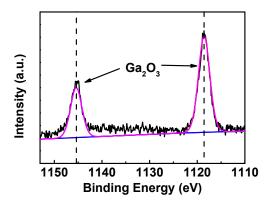


Fig. S1 The XPS spectra of Ga2p for PtSn/Mg(2-Ga)AlO catalyst

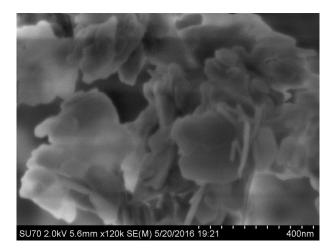


Fig. $\mathrm{S2}$ SEM image of reduced catalyst PtSn/Mg(2-Ga)AlO