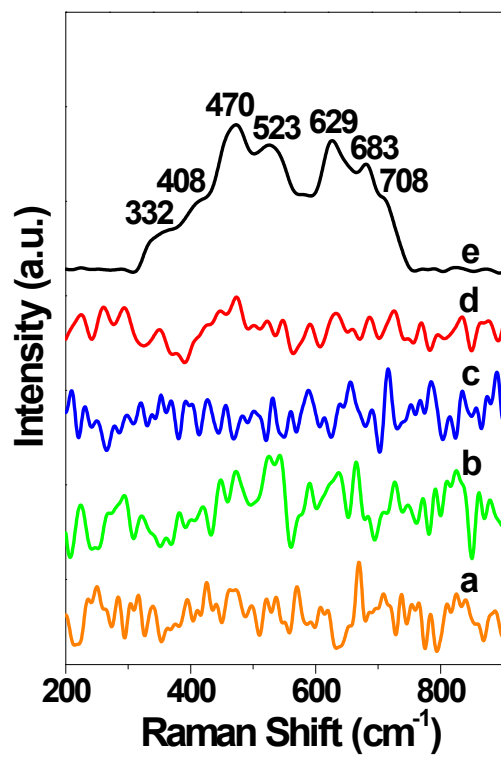


## **Effect of support composition on structural and catalytic properties of Ru/AlOOH-SiO<sub>2</sub> catalysts for benzene selective hydrogenation**

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**Fig. S1** Raman spectra of the (a) Ru/ASC(0.15), (b) Ru/ASC(0.39), (c) Ru/ASC(0.88), (d) Ru/ASC(2.35), and (e) Ru/AlOOH catalysts.