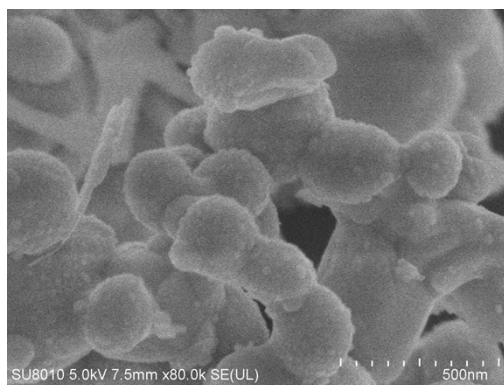


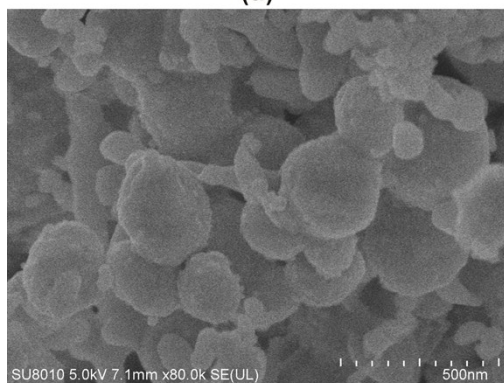
Electronic Supplementary Information (ESI)

Synergistic effect between Pt⁰ and Bi₂O_{3-x} for efficient room-temperature alcohol oxidation under base-free aqueous conditions

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(a)



(b)

Fig. S1. SEM images of (a) Pt/Bi₂O_{3-x} sample; (b) Pt/Bi₂O_{3-x}-used sample.

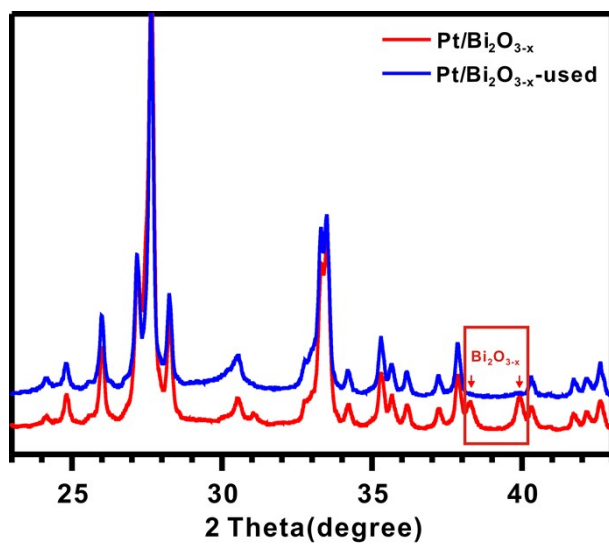


Fig. S2 XRD data of Pt/Bi₂O_{3-x} and Pt/Bi₂O_{3-x-used} samples.

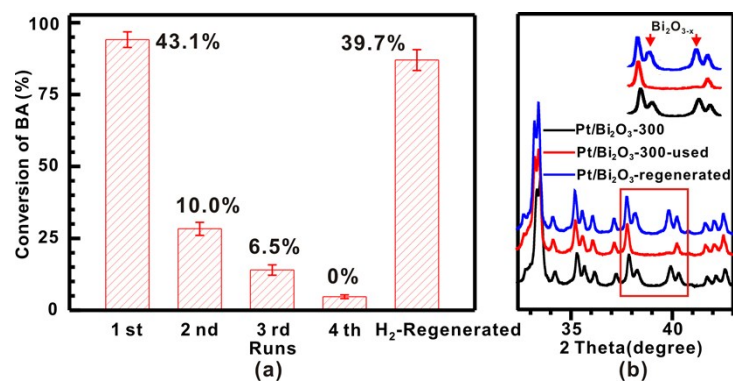


Fig. S3 (a) Recycle test on Pt/Bi₂O_{3-x} (the ratio of the partially reduced Bi₂O_{3-x} calculated by XPS peak area inset); (b) WAXRD data.

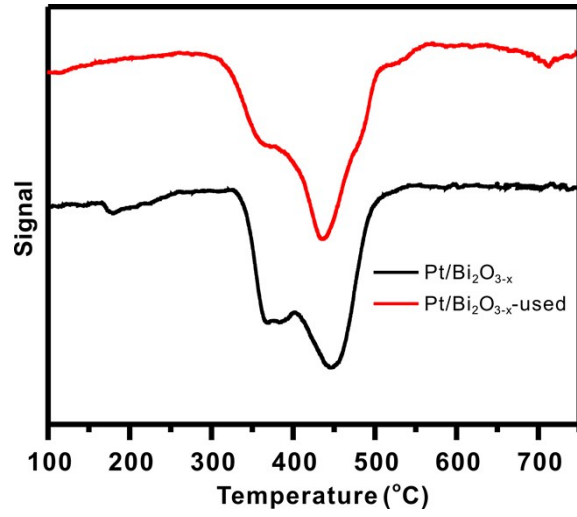


Fig. S4 TPD-NH₃ of Pt/Bi₂O_{3-x} and Pt/Bi₂O_{3-x-used} samples.

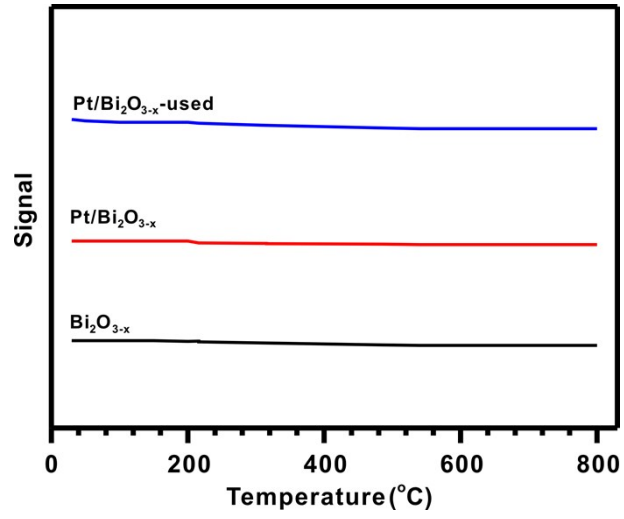


Fig. S5 TPD-CO₂ of Bi₂O_{3-x}, Pt/Bi₂O_{3-x} and Pt/Bi₂O_{3-x}-used samples.