Supporting Information

Fabrication and catalytic property of nanorod-shaped (Pt-Pd)/CeO_2 composites

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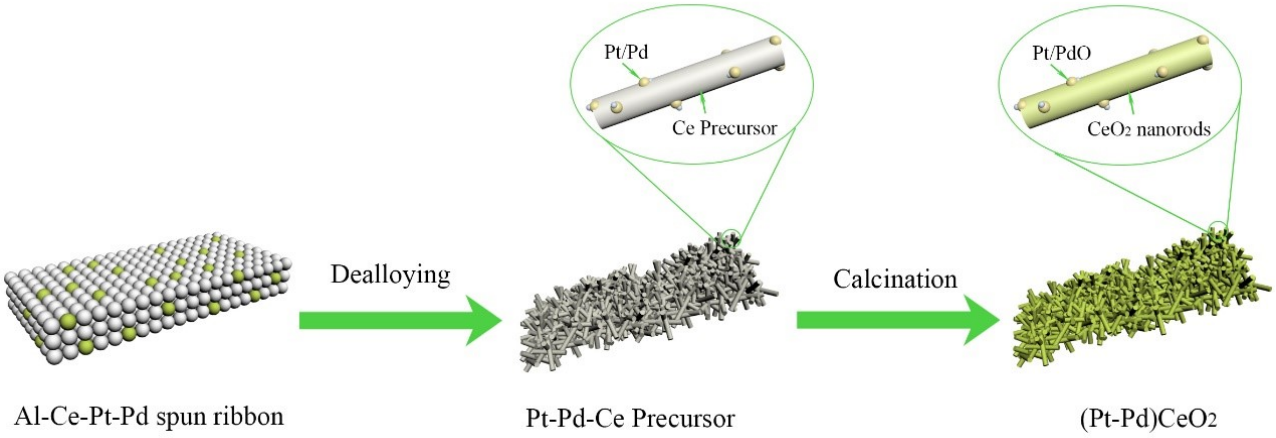

Fig. S1 Fabrication schematic of (Pt-Pd)/CeO_2

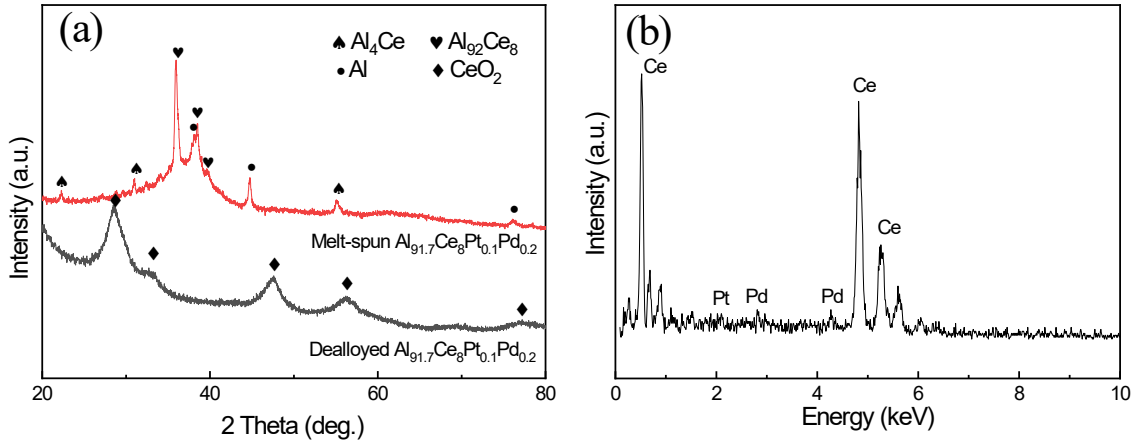

Fig. S2 (a) XRD patterns of melt-spun Al-Ce-Pt-Pd ribbons and dealloyed $Al_{91.7}Ce_8Pt_{0.1}Pd_{0.2}$ ribbons; (b) the EDS mapping of ($Pt_{0.1}$-$Pd_{0.2}$)/CeO_2

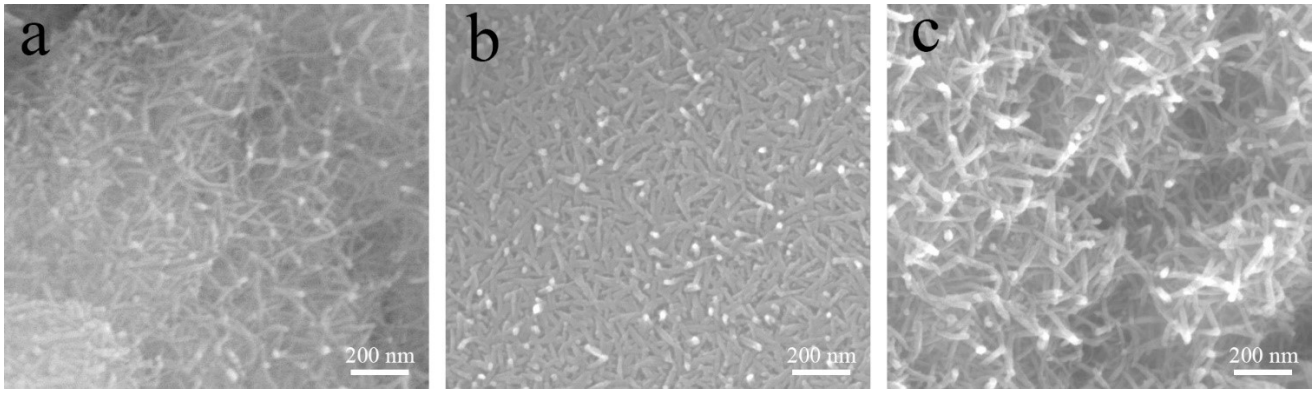

Fig. S3 SEM images of ($Pt_{0.1}$-$Pd_{0.2}$)/CeO_2 obtained at varied calcination temperature with different magnifications: (a) 0 °C, (b) 300 °C, (c) 500 °C

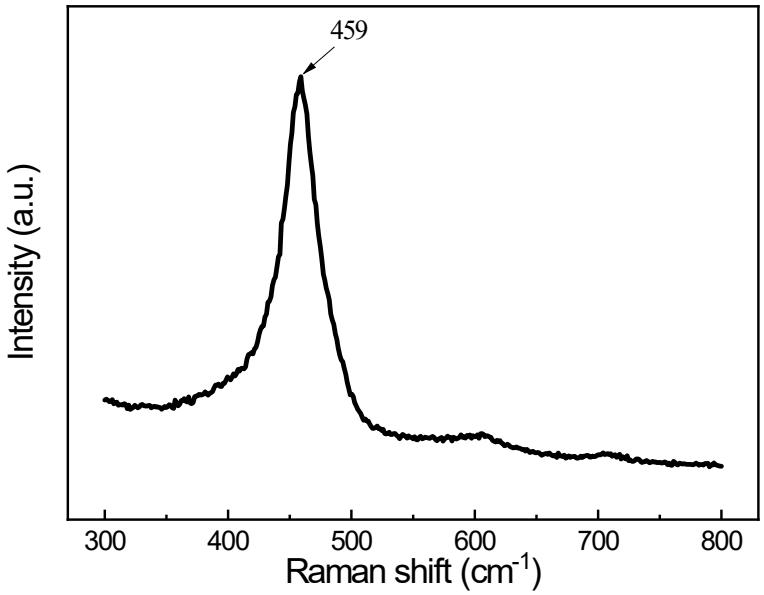

Fig. S4 The Raman spectrum of pure CeO_2

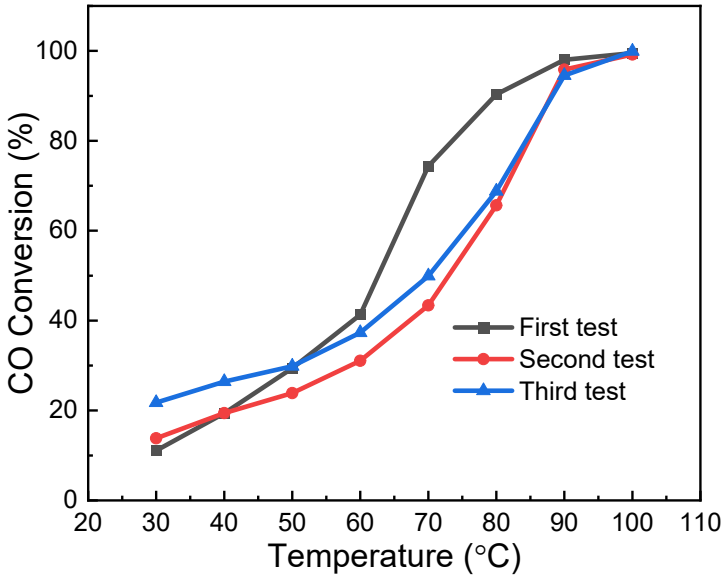

Fig. S5 The three repeated catalytic performance tests of $(Pt_{0.2}\text{-}Pd_{0.1})/CeO_2$ catalyst

Table S1 Comparison on catalytic performance of $(Pt_{0.1}\text{-}Pd_{0.2})/CeO_2$ with previous reports

Sample	Preparation Method	Test condition	T_{50} (°C)	T_{99}(°C)	Reference
Pd/Pr-CeO_2-5%	Hydrothermal synthesis	1% CO, 99% dry air	/	160	41
Ir/CeO_2	wet chemical reduction	1% CO	/	110	42
Pd/$Ce_{0.7}Zr_{0.3}O_2$	Hydrothermal method	1.0% CO, 0.5% O_2, N_2 balance,	/	100	43
Co_3O_4@CeO_2	Hydrothermal method	1% CO, 99% air	/	160	44
Pt/CeO_2	Electrostatic Adsorption	1% CO, 20% O_2, He balance	140	/	45
$(Pt_{0.1}\text{-}Pd_{0.2})/CeO_2$	Dealloying and calcination	1% CO, 10% O_2, 89% N_2	75	100	This work